

UBC REPORTS

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Bill McLennan photo

Transforming Image

Heiltsuk artist Ben Houstie reconstructs a painting for the Museum of Anthropology exhibit, *The Transforming Image*. Houstie is one of a number of B.C. First Nations artists using an infra-red photography process pioneered at the museum to recreate decaying North West coast paintings. The exhibit continues to April 4.

Tuition fee increase approved for '93-94

by Connie Filletti

Staff writer

UBC's Board of Governors has approved an 11.9 per cent tuition fee increase for 1993-94.

But the university hopes that the rate may drop to 9.9 per cent if the provincial government rolls in a two per cent grant it provided to the university's base budget last year on a one-time basis.

The grant offset a portion of fee income lost by UBC after complying with the government's request to suspend, for one year, its 1992-93 tuition increase for domestic students.

A group of approximately 1,500 students protesting against tuition hikes presented the board with a petition bearing 10,000 signatures at its Jan. 21 meeting.

"The number of you here today is a strong message in itself," said Martin Ertl, president of the Alma Mater Society. "A 12 per cent tuition hike is still excessive compared to the rate of inflation."

Shortly after the board's decision, Premier Mike Harcourt announced that colleges and universities would be required to hold tuition fee increases to under 10 per cent.

In a report by the Vancouver Courier on Jan. 24, Advanced Education Minister Tom Perry said that UBC would not receive last year's two per cent off setting grant and would have its operating grant rolled back if the university does not comply with the tuition cap.

Two years ago, the board set fee increases at the annual Vancouver Consumer Price Index (CPI) plus 4.5 per cent, over three years, starting in the fall of 1991.

The new plan sets tuition fees for the next four years. Apart from the 93-94 increase, fees will be set at: CPI plus 4.5 per cent in 1994-95, CPI plus four per cent in 1995-96 and CPI plus 3.5 per cent in 1996-97.

UBC President David Strangway said that a major benefit of the new plan is that the university will be able to resume funding for its existing student aid package, beginning in 1994-95.

A portion of the fees will be rolled into the Student Aid Fund and the Teaching

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Killam prizes claimed by 10 faculty

by Gavin Wilson

Staff writer

Ten faculty members have each been awarded one of the university's most prestigious awards, the UBC Killam Research Prize.

The prizes, worth \$10,000, are equally divided between the arts and sciences. Winners are selected by a committee from a list of candidates nominated by deans. Faculty members are eligible for the prize only once.



Eaves

This year's winners are:

Ruedi Aebersold, Dept. of Biochemistry; **Robert Allen**, Dept. of Economics; **Trevor Barnes**, Dept. of Geography; **Colin Clark**, Dept. of Mathematics; **Julia Cruikshank**, Dept. of Anthropology and Sociology; **Connie Eaves**, Terry Fox Laboratory; **Kalevi Holsti**, Dept. of Political Science; **Robert Kiefl**, Dept. of Physics; **Ira Nadel**, Dept. of English; **Martha Salcudean**, Dept. of Mechanical Engineering.



Salcudean

The award carries no stipulations on

how it should be spent. Recipients can use the prize for equipment, research, travel, as a supplement to salary, or for any other purpose. It has also been used to establish a graduate student scholarship.

Instituted by President David Strangway in 1986, the prize is drawn from the University Development Fund established by endowments to UBC made by the estate of Dorothy J. Killam.



Kiefl

Sticklebacks land ecologist a Steacie

by Gavin Wilson

Staff writer

Dolph Schluter, an associate professor in the Dept. of Zoology, has won a 1993 E.W.R. Steacie Memorial Fellowship.

The fellowship is considered one of the country's highest awards for science and engineering. Four are given each year to Canada's most promising researchers by the Natural Sciences and Engineering Research Council.

Schluter is the 12th UBC faculty member to win a Steacie since the award's inception in 1963. Only one other university has won more, the University of Toronto, with 13.

Schluter is an evolutionary ecologist who has combined field work on finches and stickleback fish with theories that have altered the way field biologists study natural selection. His research reveals how complex interactions between

members of a species and their environment shape biological diversity.

He joined UBC in 1985 and has earned a reputation as a dynamic, enthusiastic teacher. Schluter has published in journals such as *American Naturalist*, *Ecology and Science* and is on the editorial board of *Evolution*, the top journal in the field.

The award of salary plus benefits provides recipients with the opportunity to focus on research full-time, free from teaching and administrative duties for up to two years. A Steacie also helps fellows secure other research funding.

Nominations are submitted by universities from across Canada. The final selection is made by NSERC in consultation with the Canadian and international research community.

The other fellowship winners for 1993 are McGill University biochemist Philippe Gros, University of Alberta chemist Ole

Hindsgaul and T.K. Kyser, a geochemist at the University of Saskatchewan.

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Gavin Wilson photo

Prize Catch

Zoology Associate Professor Dolph Schluter, whose experiments with stickleback fish have led to a greater understanding of the complexities of species evolution, has won a Steacie award from the Natural Sciences and Engineering Research Council. Story page 1.

Letters

Periodical cuts threaten library

Editor:

On June 23, 1980, UBC Reports predicted Doomsday for the Library in 1990 because of space problems. The librarians postponed that Doomsday by putting many books in storage but another is about to occur: the million dollar cut in library subscriptions to periodicals reported on Dec. 10, 1992. Never in its history has UBC faced such a devastating blow to learning.

The Library has already suffered three rounds of cancellations of periodicals since 1981. The new one is supposedly necessary because of the escalating subscription prices of periodicals, the weakness of the dollar, and inadequate funding increases.

But the administration has not related these problems to the saving they have demanded. In order to meet the arbitrary figure of one million dollars librarians will propose cancellation of a huge list of moderately priced journals. Narrow administrative monetary considerations will be blind to scholarly value.

The termination of long runs of periodicals will be a severe, even irreversible setback; research of faculty and graduate students will be slowed; because undergraduates must complete their research in the limited time frame of their courses, they will be unable to obtain journals. Even if subscriptions are resumed it will be difficult to fill the gaps. The Library's standing will drop and it will be less serviceable than it has been.

Three-hundred and nine

faculty, three post-docs and 65 graduate students in 22 departments in the faculties of Arts, Science and Commerce have signed a petition protesting this situation, which can be avoided if academic excellence is our first priority. The library collections are central to the academic purposes of UBC. Yet apparently none of the money raised by our highly successful fund-raising campaign will be spent on maintaining library collections.

The only way to maintain our collections is by providing more money for them. We believe that money was available but library collections were not given a high enough priority.

We have asked the Board of Governors, the president and his relevant vice-presidents, the Senate, and a number of deans to revoke the purge of periodicals. Otherwise research and teaching at UBC will be adversely affected and the university's ranking greatly diminished.

Leonidas E. Hill
History Department

Anthony J. Podlecki
Classics Department

Involvement key to change

Editor:

The dominant message from the referendum and polls is that Canadians want different types of politicians and leadership. Change will not happen by chance.

As academics we are expected to excel and lead in our areas of expertise, and to share our knowledge and enthusiasm with our students. It strikes me as an ultimately

self-defeating paradox that as individuals we are so reluctant to bring this creativity and enthusiasm to involvement in the political process.

Failure to become involved is an action. It is an agreement that we are going to leave key decisions that affect our personal and professional lives to others, and by our inaction in essence saying that we tolerate more of the same.

As academics we are trained to be skeptical and to critically assess issues before we draw our conclusions and possibly become involved. In direct contrast, to influence the political process one must first become involved, and long before election day.

Involvement can take many forms, but a critical step is in the process to select the candidates who will ultimately lead or fail to lead. They are chosen by a relatively limited number of individuals in a party. This part of the democratic process is a very weak link, and there is inherently little in the process that guarantees that high quality candidates or even the best of potential candidates will be selected. Nevertheless it is this process that determines who will be offered as candidates on election day.

I urge students, staff and faculty to get involved with the party of their choice. One can do more at this level to bring about support for education and other interests than one can ever do simply by voting on election day. The risks of noninvolvement are high.

William R. Bowie, MD,
FRCPC
Professor of Medicine

Editor's note: Dr. William Bowie is running for the Liberal nomination in the riding of Vancouver Quadra.

Tuition

Continued from Page 1

and Learning Enhancement Fund, which began in 1991-92.

"It is unfortunate that further funding for these important programs will have to be deferred for another year," Strangway said.

"We do not want students who are qualified and eligible for admission to be denied a place at UBC because of financial limitations," he said. "We have taken every step to ensure that these special funds are preserved for future years."

Under the original three-year plan, tuition for 1992-93 would have risen by 9.7 per cent.

"Although this year's increase could have been higher, we endeavored to set a level that

was fair to students and that would help us meet the costs of operating the university and preserve what we've worked so hard to build," Strangway said.

Tuition fees account for approximately 15 per cent of UBC's general purpose operating revenue.

Ken Bagshaw, chair of the Board of Governors, described the tuition increase as a reasonable approach toward maintaining the integrity of UBC as a first-rate learning environment, but said he realized that the fee hike will cause difficulty for some students.

"I pledge that the board's continuing goal will be to seek ways to ensure that a support structure is in place for any student facing a financial barrier in trying to gain access to the university system."

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The Cecil & Ida Green Visiting Professor

CAROLYN MERCHANT

Department of Conservation and Resource Studies
THE UNIVERSITY OF CALIFORNIA, BERKELEY

GLOBAL ECOLOGICAL REVOLUTION

Tuesday, February 2 at 12:30 p.m.
Buchanan Building, Room A-106

IMAGES OF WOMEN AND NATURE

Wednesday, February 3 at 3:30- 5:00 p.m.
Seminar in Geography Building, Room 201

REINVENTING NATURE

(The Vancouver Institute)

Saturday, February 6 at 8:15 p.m.
Woodward Instructional Resources Centre, Hall 2



UBC REPORTS

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Review underway

Campus incinerator process put on hold

by Gavin Wilson

Staff writer

UBC will delay public consultation on the planned campus hazardous waste incinerator until the Government of B.C. releases a discussion paper on a province-wide strategy for hazardous waste management.

The proposed campus incinerator is a joint project of UBC, SFU and UVic for the disposal of their combined biomedical and hazardous wastes. It will replace an existing incinerator which no longer meets provincial special waste regulations.

Planning for the Tri-Universities Incinerator project began in 1988. UBC initiated a public consultation process two years ago following application to the Greater Vancouver Regional District for an incinerator permit.

The university has since established a community-based hazardous waste advisory committee and initiated an ongoing series of public meetings.

"The committee will continue to look at waste management issues at UBC in anticipation of the province's discussion

paper," said Randy Alexander, UBC's manager of hazardous waste minimization.

UBC will also continue a program aimed at minimizing the amount of hazardous waste produced on campus.

Alexander said the university is anxious to have the incinerator issue resolved quickly because the university has environmental responsibility for the handling and minimization of campus waste.

"We look forward to working with the provincial waste reduction commission on an overall waste management strategy and we hope the commission will utilize available UBC expertise during the process," he said.

The provincial government's Waste Reduction Commission, led by Dorothy Caddell, will be touring the province in coming weeks for a series of public consultations to discuss available technologies, locations and funding for the disposal of biomedical waste.

The government has indicated that the commission's report will be ready in about two months.



Gavin Wilson photo

Prehistoric Plant

Botanical Garden research scientist Gerald Straley shows off a prize cycad, an oddity of the plant world: They look like palms, but produce cones like pine trees. Sometimes called living fossils, cycads were common plants at the time of the dinosaur, and were found from Greenland to Antarctica. There are relatively few left in the world's tropical and subtropical regions.

Offbeat

by staff writers

When it comes to music, killer whales are avid listeners, belugas are critically detached and octopi, well, octopi would rather find a good rock to slither under.

At least that's what the Development Office's Moyra Van Nus has found.

Van Nus, a fund-raising co-ordinator, is a freelance harpist and has played at a number of corporate receptions in the whale viewing rooms of the Vancouver Public Aquarium.

"As soon as you play the first notes the killer whales immediately come right up to the glass. They're so close that, if there was no glass between us, I could reach out and touch them," she said.

The belugas are "much more aloof," Van Nus said, adding that they are curious, but keep their distance, hovering in the middle of the pool.

Once, she played directly in front of a tank of octopi. They spent the entire evening slithering up and down the glass.

"It was kind of creepy," she said.



Beluga . . . aloof listener

Deranged agents of merry chaos - that's how UBC Engineering students are described in a U.S. book on great college pranks.

The publication, *If At All Possible, Involge A Cow*, by Chicago Sun-Times reporter Neil Steinberg, devotes a page to UBC engineering pranks including the re-wiring of lights on Lions Gate Bridge, changing the chimes on the clock tower and depositing a VW Beetle shell at various, prominent locations around Vancouver.

The case of the missing Rose Bowl trophy from the University of Washington, later found on campus at UBC, is accompanied by author John Updike's 1953 quote: "It is deplorable that they have carried college jokes into the arena of international relations."

Acting in the movies isn't all that glamorous, according to part-time movie actor Jerry Wasserman.

An associate professor of English at UBC, Wasserman plays the doomed pilot in the recently released film, *Alive*, based on the 1972 plane crash of a Uruguayan rugby team in the Andes. This bloodied character survives the crash, but not the survivors' first night in the cold mountain air. Wasserman's other acting credits include *The Accused*, *Look Who's Talking* and *Shoot to Kill*.

On the small screen, first-year Arts student Natasha Kong stars as Helen Chan in the popular CBC Monday night series *Northwood*. Her character is an 'A' student who, as the show's promotional material points out, "doesn't worry about too much these days."



Kong

Garden helps dementia patients

by Gavin Wilson

Staff writer

A quiet stroll in the garden can improve the behavior and quality of life of people with Alzheimer's disease, a UBC study has shown.

Care home residents with Alzheimer's or other forms of dementia have fewer accidents and are less prone to violent acts when they have regular access to gardens, said Patrick Mooney, an assistant professor of Landscape Architecture at UBC.

"With access to a garden, residents appear to feel more comfortable and less stressed, minimizing behavioral disruptions, such as falls and violent acts," he said.

The study, which compared five intermediate care facilities operating special care units, showed that the rate of violent incidents declined by 19 per cent over a two-year period at those care homes with gardens.

In care homes without gardens, the rate of violent incidents increased by 681 per cent. Such a dramatic rise can be expected because the condition of Alzheimer's patients deteriorates over time, Mooney said.

This study is believed to be the first to look at the use of exterior environments in the treatment of people with Alzheimer's disease.

Exterior spaces such as gardens are important because many care home residents with dementia are mobile and often walk a great deal, said Mooney. Exercise helps to reduce the frustrations and anxiety that mark all dementias.

People with Alzheimer's are compulsive walkers, and since the tendency is to walk forward, circular or loop corridors and walkways minimize frustration, Mooney said.

Dead-ends, locked doors and crowding all create frustration for care home

residents, who tend to get stuck at dead-ends, not realizing that they can turn around and walk the other way.

"Our hypothesis in the study was that a garden which offers residents freedom of movement and opportunities to avoid crowding and over-stimulation will reduce frustration," he said. "Without it, some residents can become very frustrated and agitated, and this can lead to real care and security problems."

Mooney's previous research has shown the beneficial impact that the natural environment can have on seniors, but the results of this study on people with Alzheimer's is "the most dramatic," he said.

Mooney co-authored the study with Lenore Nicell, administrator of Cedarview Lodge, a care home in North Vancouver which has a garden that one of Mooney's students designed especially for residents.

The layout of the original garden at Cedarview Lodge was unsafe, resulting in frequent falls, some causing serious injury, said Nicell. Disoriented residents often became confused, upsetting other residents and requiring staff help.

Residents routinely got caught at the end of a dead-end path in front of Nicell's office. About a dozen times a day she had to lean out of her window and turn them around.

"The residents require a great deal of support from their environment in order for it to make sense for them," Nicell said. "Things we take for granted do not necessarily make sense for them."

The new garden, opened in May, 1990, was designed with soothing, low-key colors, non-toxic plants, footpath lights, prominent handrails and a figure-eight walkway that leads residents in and out of the garden without the confusion of dead-ends or corners. The surrounding security fence is screened in such a way that residents were not attracted to the site edge.



Martin Dee photo

Michael Bridges (left) and Dr. Chris Harvey-Clark demonstrate nasal epithelial brushing on a sheep. This new technique may save thousands of animal lives worldwide each year.

Nasal brushing technique aims to cut lab animal use

by **Connie Filletti**

Staff writer

A painless and relatively stress-free technique to collect airway tissues for culture from living animals is being pioneered by UBC scientists.

Called nasal epithelial brushing, this technique may provide an alternative to sacrificing animals to obtain tissues for the study of respiratory diseases, says Michael Bridges, an honorary assistant professor of Pharmacology and Therapeutics.

Bridges, who developed the process of culturing human cells obtained by nasal brushing, described the procedure, which takes less than 15 seconds to perform, as well-tolerated by the animal. He and co-investigator Dr. Chris Harvey-Clark, UBC's clinical veterinarian, are initially using sheep, cows and goats in their animal alternatives research program.

Harvey-Clark explained that these species were chosen because of their availability and their range of complex viral and bacterial respiratory diseases.

By inserting a nylon brush three millimetres in diameter into the animal's nostril and twirling it several times, the researchers are able to remove five to 10 million cells from the surface of the nasal sinus.

"This is roughly equivalent to the number of airway cells found in 10 to 20 mice," Harvey-Clark said.

In addition to its animal alternatives

potential, Bridges said that the greatest benefit to scientists of nasal brushing is that cells obtained in this manner continue to have many of the same inter-cellular connections, maintaining more of their native tissue format.

"Finding tissue models that imitate what occurs in the body is a major problem," Bridges explained. "With nasal brushing, we've been able to devise non-transformed culture models which better reflect the native state that occurs in the body."

Although the researchers are not claiming that nasal brushing will completely replace more invasive methods of obtaining respiratory tissues from research animals, the potential for conserving research animal lives is promising, Harvey-Clark said.

Bridges has successfully used the procedure on humans as an alternative to

collecting surgical specimens for the study of cystic fibrosis. He and Harvey-Clark now plan to apply the technique to animals.

Preliminary brushing experiments performed by the researchers with goats suggest that the nasal brushing procedure, with adjustments, can be successfully used in animals.

Initial funding for the research project is being supplied by a consortium of animal welfare groups, including the British Columbia Society for the Prevention of Cruelty to Animals and the Animal Welfare Foundation of Canada.

"Finding tissue models that imitate what occurs in the body is a major problem."

- Michael Bridges

Around and About

by Ron Burke

Bookstore blueprints

Bookstore Director Debbie Harvie says it all started with her memo to University Planner Andrew Brown enquiring about a new sign for the store.

She got the answer she wanted, and more -- a set of plans for an extensive renovation and expansion of the bookstore.

"The idea is to make the store more modern, accessible and customer friendly," says Harvie. "With the wider focus we have now, from books to clothing to art supplies to electronics, we simply need to expand to keep up with the demand."

During 1991-92, sales topped \$26.1 million.

It's no coincidence that the store is the last stop on summer campus tours; the 4,500-plus tour participants typically head straight into the store to snap up UBC paraphernalia.

"We probably have the largest selection of books in Canada, and we've added things like the computer shop and a postal facility," says Harvie. "And we desperately need to put in public washrooms. Just like the university, we're a provincial resource and attraction."

She stresses that the days of university bookstores holding a captive audience, due to students' textbook requirements, are long gone. Today, the Bookstore competes for customers like any other retail outlet.

She also points out that the Bookstore must operate as a profitable business; funds for the expansion will be borrowed from the university and repaid, with interest.

Renovations will occur in phases over the next five years, eventually including a cappuccino bar, an atrium and a boutique-style series of display areas.

Harvie says the prime focus will still be on books. When complete, the new store will stretch out and up to street level along University Blvd., with large display windows.

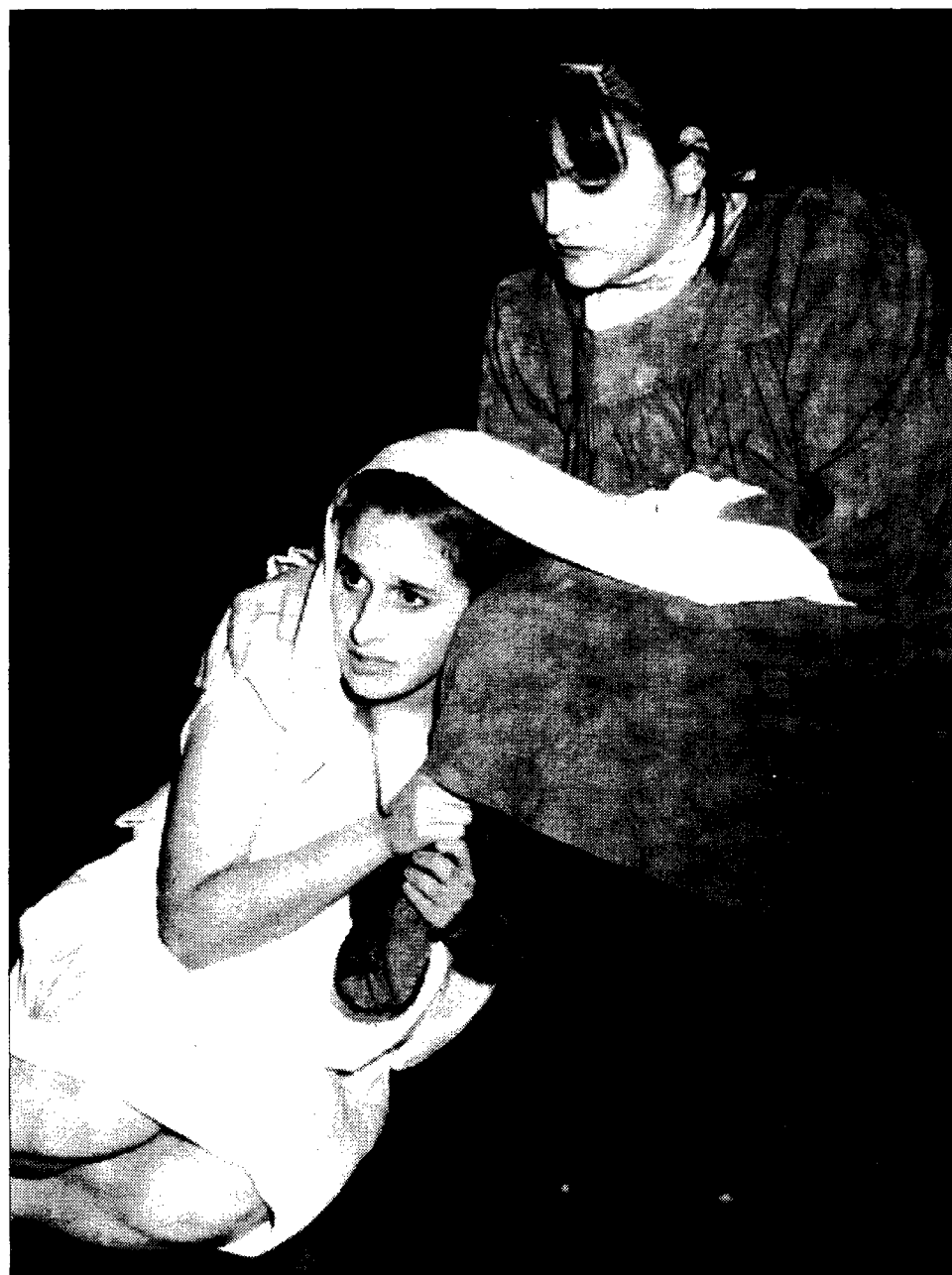
It will also include a public information centre at street level.

The centre will be housed in a small clock tower, which will also hold a prominent sign — which takes us back to where the whole exercise started: the note to Andrew Brown about a larger sign.

"The campus plan says services for people should be located on University Boulevard and clearly visible," says Brown. "These renovations will give the Bookstore better visibility and entrances, as well as adding weather protection and lighting at street level."

Harvie is excited about the expansion. "The new store will have much better signage, lighting, air conditioning and traffic patterns," she says. "It'll be a friendly place where people will want to stay awhile."

The first phase of construction is slated for this spring and summer.



Martin Dee photo

Arts Awakening

Brenley Charkow (left) and Kerry Davidson rehearse a scene from *Spring Awakening*, a special dramatic production presented for UBC ArtsFest '93 at the Frederic Wood Theatre. Funded through the Teaching and Learning Enhancement Fund, ArtsFest runs February 11-14 and is a collaborative project of Creative Writing, English, Fine Arts, Music and Theatre and Film. Call 822-5574 for more information.

Olav Slaymaker likens his job of promoting social sciences and humanities research at UBC to a high-wire act.

Against a headwind of government cutbacks, he has had to balance society's demands for more 'results-oriented' research with concerns from the academic community that core disciplines are being sold out.

Yet, despite considerable turbulence, this former Geography Department head and specialist in mountain environments is making headway along a very exposed tightrope.

"My overall sense is that we are going in the right direction," he says. "We just aren't going very fast."

With small business and industry looking increasingly to social sciences and humanities for input, he says UBC is starting to take advantage of opportunities in the private sector. In fact, over the last few years, more than half the funding for this area of university research has come from sources other than the Social Sciences and Humanities Research Council (SSHRC).

At the same time, Slaymaker warns that UBC must also resist the urge to channel funds exclusively to projects that produce immediate payoff.

"The university has to be a critical institution as well as one which responds to the needs of society," he argues. "Surely a thoughtful and informed society is a valid objective."

Halfway into his three-year mandate as associate vice-president of research for humanities, interdisciplinary initiatives and social sciences, Slaymaker has made progress in mobilizing scholars in Arts, Commerce and Business Administration, Education, Graduate Studies and Law.

During the past 16 months, Slaymaker, together with a group of associate deans of research in each of these faculties, has helped oversee projects which include: the creation of a research inventory with 800 entries representing roughly half of university faculty members; sponsorship of interdisciplinary workshops in First Nations research, Linguistics, Medieval Studies, Multiculturalism and Geographic Information Systems; and the successful promotion of several new interdisciplinary proposals such as the Sustainable Development Research Institute's (SDRI) Eco-research proposals (jointly with the Westwater Research Centre and the Faculty of Forestry), the Faculty of Commerce's global competitiveness projects and the Faculty of Science's Biodiversity Research Chair initiative undertaken with the faculties of Arts, Agricultural Sciences, Forestry and the SDRI.

While there is still skepticism in certain quarters of campus about his role, Slaymaker nonetheless sees the position as a catalyst for change.

"Clearly a lot of these initiatives would be happening anyway, but we are now establishing a means of advertising the incredible range of fascinating scholarly and research activities that are going on here," he says.

Mobilizing scholarship (and searching for funds)

by Charles Ker - Staff writer



Media Services photo

Slaymaker: "Surely a thoughtful and informed society is a valid objective."

From a national standpoint in 1992, UBC moved from fourth to second spot behind the University of Montreal in total funds received from the SSHRC. Slaymaker points out that the Faculty of Commerce is consistently Canada's outstanding business faculty in this competition.

But despite campus gains, government retrenchment has significantly darkened the horizon.

Soon after the release of the Royal Society of Canada's report

recommending a quadrupling of funding to SSHRC, the government announced SSHRC's merger with the Canada Council. The creation of this cultural "super-agency" coincided with the termination of 46 independent think tanks, including the Science and Economic councils of Canada. Then

came the government's mini-budget that froze budget increases for each of the research councils.

"The external signals indicate that the government doesn't want independent criticism," says Slaymaker. "If that's the case, then social sciences and humanities become

irrelevant. Constructive criticism is the essence of research in these areas."

Slaymaker adds that more and more research proposals are getting enthusiastic approval and excellent international peer

evaluations under the new SSHRC category "approved but not funded." But while such recognition is encouraging, the associated unavailability of funds is a source a frustration for scholars.

Even the SDRI's eco-research

proposals, imaginative contributions to Environment Canada's so-called "Green Plan," can no longer be assumed to have a guaranteed source of funding.

Last year 30 proposals (including two UBC entries), from an initial list of 120, were chosen for development grants to examine ways of dealing with the deterioration of regional ecosystems. It's now at a point where the original 30 are about to be whittled down to a maximum of eight and the entire \$50-million eco-research program, which a year ago seemed inviolate, appears to be in jeopardy.

Regardless of the gloomy national outlook, however, Slaymaker takes heart from the positive responses he's been getting on campus.

Whether it's during lunch at the Faculty Club or standing in a Bookstore lineup, colleagues are increasingly interested in seeking his advice on where to turn with potential projects.

"Things are slowly starting to happen," he says. "Basically, I've got a three-year mandate for a 10-year job."

"The external signals indicate that the government doesn't want independent criticism. If that's the case, then social sciences and humanities become irrelevant. Constructive criticism is the essence of research in these areas."

Calendar

January 31 through February 13

Seminars

Monday, Feb. 1

BC Cancer Research Centre
Monitoring Somatic Mutations In Humans. Dr. Jenny Quintana, Occupational Hygiene Programme, Graduate Studies. BC Cancer Research Lecture Theatre at 12pm. Call 877-6116.

Plant Science Seminar
Structure And Function Of Tomato Ringspot Virus RNA1 And RNA2. Michael Rott, PhD candidate, Plant Science. MacMillan 318D from 12:30-1:30pm. Call 822-8233.

Mechanical Engineering Seminar
Non-Linear Slender Body Calculations For Ships. Haw Lok Wong, PhD student. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6200/4350.

Astronomy Seminar
Pre-Main-Sequence Lithium Depletion In The Hyades. Fritz Swenson, U. of Victoria. Geophysics/Astronomy 260 at 4pm. Coffee at 3:30pm. Call 822-2267/2696.

Tuesday, Feb. 2

Pharmacology/Therapeutics Seminar
Anoxia And Hippocampal Neurons. Dr. Kresimir Krnjevic, Anaesthesia, McGill U. University Hospital G279 from 12-1pm. Call 822-6980.

Pharmaceutical Sciences Seminar
Hormonal Regulation Of Hepatic Cytochromes P450. Dr. Stelvio Bandiera, assistant professor, Pharmaceutical Chemistry, Pharmaceutical Sciences. IRC #4 at 12:30pm. Call 822-2051.

Botany Seminar
Evolution Of Chlorophyll Binding Proteins: Rewriting The Textbook. Dr. Beverley Green, Botany. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Oceanography Seminar
The Role Of Micro-Zooplankton In The Planktonic Food Web Of The Sub-Arctic Pacific. Susan Strom, Shannon Point Laboratory. BioSciences 1465 at 3:30pm. Call 822-2828.

Statistics Seminar
Efficient Estimation Of Average Derivatives. Dr. Ildar Ibragimov, Steklov Mathematical Institute, St. Petersburg/U. of St. Petersburg, Russia. Angus 426 at 4pm. Refreshments. Call 822-3167/2234.

Wednesday, Feb. 3

Microbiology Seminar
Understanding The Cellular Immune Response™. Roger Lippe, Biotechnology Laboratory. Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

Thursday, Feb. 4

Family/Nutritional Sciences Seminar
Use Of Tyrosine Kinase Inhibitors In The Control And Management Of Bronchial

Inflammation. Dr. Hassan Salari, Medicine. Family/Nutritional Sciences 60 from 11:30am-12:30pm. Call 822-2692.

Whole Earth Seminar
Cascadia Seismicity III: The Local Picture - Geologic Evidence For Holocene Earthquakes In Coastal British Columbia, Western Vancouver Island And The Fraser River Delta. Dr. John Clague, Geological Survey Of Canada. Geological Sciences 330A at 12:30pm. Refreshments follow in the Grad Lounge (308). Call 822-9258.

Anatomy/Dentistry Seminar
Vertebrate Head Segmentation: Hoaxes And Hoxes. Dr. Drew M. Noden, professor, Anatomy/Embryology, Cornell U. Friedman 37 from 12:30-1:30pm. Call 822-9071.

International Forum Seminar
Development Of Knowledge-Based Industries, Japan And Canada. W. Mark Fruin, HongKong Bank of Canada professor, director, Institute of Asian Research, Asian Centre. IRC #1 from 12:30-2:30pm. Call 822-4401.

Sociology/Anthropology Departmental Seminar
The Social Identity Of English Canada. Ian Angus, Sociology SFU. Anthropology/Sociology 205 at 4pm. Call Brian Elliot at 822-2878.

Friday, Feb. 5

Craniofacial Biology Seminar
Origins, Assembly And Survival Of Avian Craniofacial Muscles. Dr. Drew M. Noden, prof., Anatomy/Embryology, New York State College of Veterinary Medicine, Cornell U. JB MacDonald, Dentistry 112 from 12:30-1:30pm. Call 822-3592.

Chemical Engineering Weekly Seminar
Mammalian Cell Protein Production Using Controlled Release. Rumina Sunderji, graduate student, Chemical Engineering. ChemEngineering 206 at 3:30pm. Call 822-3238.

Monday, Feb. 8

Plant Science Seminar
The Grass Is Always Greener...The Pacific Turfgrass Research Program. F. Brian Holl, professor, Plant Science. MacMillan 318D from 12:30-1:30pm. Call 822-8233.

Mechanical Engineering Seminar
Introduction Of Crew Safety Concepts In Ship Design. Ayhan Akinturk, PhD student. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6200/4350.

Astronomy Seminar
Chemical Enrichment Of The Galaxy. Tammy Smecker, Dominion Astrophysical Observatory. Geophysics/Astronomy 260 at 4pm. Coffee at 3:30pm. Call 822-2267/2696.

Tuesday, Feb. 9

Pharmacology/Therapeutics Seminar
Effects Of Glycine Receptor

Antagonism On Hippocampal Cell Damage And Memory Loss. Dr. Tony Phillips, Psychology. University Hospital G279 from 12-1pm. Call 822-6980.

Pharmaceutical Sciences Seminar
New Techniques And Applications In Mass Spectrometry. Dr. Guenter Eigendorf, director, BC Mass Spec Centre, Chemistry. IRC #4 at 12:30pm. Call 822-2051.

Oceanography Seminar
The Large-Scale Transport And Deposition Of Pollutants In The North Atlantic Atmosphere. Doug Whelpdale, Atmospheric Environment Service, Downsview, Ontario. BioSciences 1465 at 3:30pm. Call 822-2828.

Statistics Seminar
Influence Diagnostic In Restricted Generalized Linear Models. Dr. Gilberto A. Paula, Instituto de Matematica e Estatistica, U. of Brazil. Angus 426 at 4pm. Refreshments. Call 822-3167/2234.

Colloquia

Monday, Feb. 1

Applied Mathematics Colloquium
Geophysical Inversion Methodology With Application To Direct Current And Induced Polarization Data. Dr. Doug Oldenburg, Geophysics/Astronomy. Mathematics 203 at 3:45pm. Call 822-4584.

Tuesday, Feb. 2

Psychology Colloquium
Do Adults' Questions Facilitate Early Language Acquisition? Evidence From Mandarin Chinese. Twila Tardif, Kenny 2510 at 4pm. Refreshments will follow. Call 822-6741/2755.

Wednesday, Feb. 3

Geography Colloquium
Images Of Women And Nature. Carolyn Merchant, professor, Environmental History/Philosophy/Ethics, U. of California, Berkeley. Geography 201 from 3:30-5pm. Refreshments at 3:25pm. Call 822-5612.

Thursday, Feb. 4

Physics Colloquium
The Frontier Of Materials Analysis. Martin Zinke-Allmang, U. of Western Ontario. Hennings 201 at 4pm. Call 822-3853.

Friday, Feb. 5

Graduate Colloquium Series
The Music Of John Tavener. Dr. Jeremy Begbie, Ridley Hall, Cambridge. Music 400B at 3:30pm. Call 822-2989.

Saturday Feb. 6

Bengal Studies Colloquium
Asian Centre Auditorium 9am-5pm. Refreshments. Call 822-6978.

Wednesday, Feb. 10

Microbiology Seminar
Regulators And Effectors Of Ras p21 Proteins. Dr. Frank McCormick, Onyx Pharmaceuticals, Richmond, Ca. IRC #5 at 4pm. Call 822-3308.

Thursday, Feb. 11

Family/Nutritional Sciences Seminar
Pharmacology Of Sleep Disorders. Dr. Jonathan Fleming, Sleep Disorders Clinic, Medicine. Family/Nutritional Sciences 60 from 11:30am-12:30pm. Call 822-2692.

Whole Earth Seminar
Cascadia Seismicity IV: The Vancouver Quake?: Earthquake Damage Potential In The Fraser River Delta Region. Dr. Peter Byrne, Civil Engineering. Geological Sciences 330A at 12:30pm. Call 822-9258.

Expert Partners Seminar
Computer User Groups On Campus. Computer Sciences 201

from 12:30-1:30pm. Call 822-6205.

Sociology/Anthropology Departmental Seminar
Leprosy, Racism And Public Health In Late 19th & Early 20th Century Canada. Diana French, Anthropology, Okanagan University College. Anthropology/Sociology 205 at 4pm. Call Brian Elliot at 822-2878.

HPRU Seminar Series
The Why's And How's Of European Health Systems Reforms. Dr. Jean-Pierre Poullier, Organization for Economic Co-Operation/Development, Paris. James Mather 253 from 4-5:30pm. Call 822-5992.

Friday, Feb. 12

Chemical Engineering Weekly Seminar
The Present Status Of Colloid Stability Theory. Dr. Sam Levine, honorary professor, Chemical Engineering. ChemEngineering 206 at 3:30pm. Call 822-3238.

Bengali Women's Narratives In The Forms Of Autobiography, Diary And Memoir: 1840s To 1940s. Kalpana Bardhan, U. of California, Berkeley. Asian Centre Auditorium at 1pm. Call 822-6978.

Wednesday, Feb. 10

Geography Colloquium
The Soviet Industrial Evacuation In World War II: The Space Of Survival. Robert Argenbright, Soviet specialist, Vancouver. Geography 201 from 3:30-5pm. Refreshments at 3:25pm. Call 822-5612.

Music

Wednesday, Feb. 3

Wednesday Noon Hour Concert Series
Edmond Agopian, violin; Paul Dornian, clarinet; Nicholas Pulos, viola; John Kadz, violoncello; Marilyn Engle, piano. Music Recital Hall at 12:30pm. Admission \$2. Call 822-5574.

Thursday, Feb. 4

Music Concerts
Collegium Musicum. John

Applied Mathematics Colloquium
Nonclassical Diffusion In Various Media. Prof. Donald S. Cohen, Applied Mathematics, California Institute of Technology, Pasadena. Mathematics 203 at 3:45pm. Call 822-4584.

Thursday, Feb. 11

Physics/Geophysics/Astronomy Colloquium
The Comet Impact That Killed The Dinosaurs. Allan Hildebrand, Canadian Geological Survey. Hennings at 4pm. Call 822-3853.

Sawyer/Eric Hannan, directors. Music Recital Hall at 12:30pm. Call 822-3113.

Wednesday, Feb. 10

Wednesday Noon Hour Concert Series
Alex Klein, oboe; Lisa Bergman, piano. Music Recital Hall at 12:30pm. Admission \$2. Call 822-5574.

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 February 11 issue of UBC Reports — which covers the period February 14 to February 27 — is noon, February 2.

Calendar

January 31 through February 13

Lectures

Tuesday, Feb. 2

Cecil/Ida Green Visiting Professor

Global Ecological Revolution. Prof. Carolyn Merchant, Conservation/Resource Studies, U. of California, Berkeley. Buchanan A106 at 12:30pm. Call 822-5675.

Centre For Research In Women's Studies Lecture

The Social Construction Of Gendered Sexuality. Dr. Holly Devor, Sociology, U. of Victoria. Family/Nutritional Sciences 50 at 12:30pm. Call 822-9171.

Continuing Studies Free Lecture

UBC President's Series On The Future Of Canada: Canada, NAFTA And The World Trading System. Chris Thomas, Ladner Downs/Keith Head, Commerce. IRC #1 from 12:30-2pm. Call 222-5272.

Lectures In Modern Chemistry

The Use Of Organotransition-Metal Complexes In The Formation & Cleavage Of Carbon-Hydrogen & Carbon-Heteroatom Bonds In Organic Molecules. Dr. Robert G. Bergman, Chemistry, U. of California, Berkeley. Chemistry, South Block B250 at 1pm. Refreshments at 12:50pm. Call 822-3266.

Graduate/Faculty

Christian Forum Lecture

The Death Of Art And The Art Of Life: Reflections On The Postmodern Imagination. Dr. Jeremy Begbie, tutor in Theology, Ridley Hall, Cambridge. IRC #2 at 4:30pm. Call 224-0974.

Wednesday, Feb. 3

Murrin Lecture Series

The Ecumenical Decade Of Churches In Solidarity With Women. Dr. Donna Geernaert, SC, Murrin Scholar in Residence. Buchanan D239 at 12:30pm. Call 822-2932.

Distinguished Medical Research Lecture

Molecular Basis For Vision And Human Retinal Degenerative Diseases. Dr. Robert S. Molday, professor, Biochemistry/Molecular Biology. IRC #6 from 12:30-1:30pm. Call 822-8633.

Cecil/Ida Green Visiting Professor

Images Of Women And Nature. Prof. Carolyn Merchant, Conservation/Resource Studies, U. of California, Berkeley. Geography 201 from 3:30-5pm. Call 822-5970.

Graduate/Faculty

Christian Forum Lecture

The Music Of God And The God Of Music. Dr. Jeremy Begbie, tutor in Theology, Ridley Hall, Cambridge. IRC #2 at 4:30pm. Call 224-0974.

Friday, Feb. 5

Paediatrics Grand Rounds

Update On Laser Therapy For Vascular Lesions In Children. Dr. Harvey Lui, assist. prof., Dermatology. GF Strong Auditorium at 9am. Call 875-2118.

Health Care/Epidemiology Grand Rounds

Public Policy/Protection Of Public Health Part II: Causality And Standard Settings. Dr. David Bates, professor emeritus, Health Care/Epidemiology. James Mather 253 from 9-10am. Call 822-2772.

Saturday, Feb. 6

Vancouver Institute Saturday Night Lecture

Cecil/Ida Green Visiting Professor: Reinventing Nature. Prof. Carolyn Merchant, U. of California, Berkeley. IRC #2 at 8:15pm. Call 822-3131.

Tuesday, Feb. 9

Continuing Studies Free Lecture

UBC President's Series On The

Future Of Canada: Social, Cultural And Environmental Implications Of NAFTA. Glenn Drover, Social Work. Ray Hall, Theatre/Film, others TBA. IRC #1 from 12:30-2pm. Call 222-5272.

Lectures In Modern Chemistry

De Novo Design Of Proteins: Role Of Hydrophobic & Ionic Interactions And Disulfide Bonds In Controlling Protein Conformation & Stability. Dr. Robert Hodges, Biochemistry, U. of Alberta. Chemistry South Block B250 at 1pm. Refreshments at 12:50pm. Call 822-3266.

Thursday, Feb. 11

Educational Psychology/ Special Education Lecture

The Role Of Central Conceptual

Structures. Dr. Robbie Case, Centre for Educational Research at Stanford, Stanford U. Angus 110 from 2:30-4pm. Call 822-6045.

CICSR Distinguished Lecture Series

Computers Are Not Omnipotent. Dr. David Harel, Applied Mathematics/Computer Science, The Weizmann Institute of Science. IRC #6 from 4-5:30pm. Call 822-6894.

Forestry Public Lecture/ Panel Discussion

Gypsy Moths In The Lower Mainland. IRC #2 from 4:30-6pm. Call 822-2727.

Friday, Feb. 12

Paediatrics Grand Rounds

Acute Lymphoblastic Leukemia

In Childhood. Dr. Ron Anderson, MD, FRCP(C), clinical assist. prof., Paediatrics. GF Strong Auditorium at 9am. Call 875-2118.

Health Care/Epidemiology Grand Rounds

Public Policy/Protection Of Public Health Part III: Public Policy Issues In UK, Canada And The USA. Dr. David Bates, prof. emeritus, Health Care/Epidemiology. James Mather 253 from 9-10am. Call 822-2772.

Saturday, Feb. 13

Vancouver Institute Saturday Night Lecture

Architecture In Search Of The Public Realm. Moshe Safdie, OC, Architect/Urban Designer, Toronto, Montreal, Boston, Jerusalem. IRC #2 at 8:15pm. Call 822-3131.

Miscellany

Tuesday, Feb. 2

Media Services Video Conference

Continuous Quality Improvement In Health Care: System Skills. Dr. Marianne Murdock, U. of Virginia. University Services TeleCentre 112 from 7:45am-12pm. Registration fee. Call 822-5036.

Faculty Women's Club General Meeting

Our Children, Our Future. Donna Bryman, education coordinator, Vancouver Museum. Cecil Green Park at 10am. Babysitting available. Call 822-1983.

Wednesday, Feb. 3

Staedtler Day Plus

UBC Bookstore one day sale event. Save 40-60% off all Staedtler products and other in-store arts/graphics products from 8:30am-8:30pm. Call 822-2665.

Thursday, Feb. 4

Media Services Videotape Repeats

Mac Solutions For Administrators/Math & Data Analysis. Apple Education TV Series. University Services TeleCentre 112 from 9:30-11:30am. Call 822-5036.

MIS Research Workshop

A Knowledge-Level Database Language. Robert C. Goldstein, professor/divisional chair, Management Information Systems. Angus Penthouse from 1-2:30pm. Call 822-9552.

Sunday, Feb. 7

Stories And Traditions

Tony Montague, well-known Vancouver storyteller narrates stories in English ballads. Museum of Anthropology Great Hall at 1pm. Free with museum admission. Call 822-5087.

Tuesday, Feb. 9

MOA Panel Discussion

The Transforming Image Exhibit. Curators and contributors

share stories about the creation and revelations of this project. Museum of Anthropology Theatre Gallery at 7:30pm. Call 822-5087.

Wednesday, Feb. 10

Wednesdays At Lunchtime

Women In BC. Dr. Veronica Strong-Boag, director, Centre for Research in Women's/Gender Studies. Bookstore from 12:30-1:30pm. Refreshments. 822-2665.

Multicultural Liaison/Human Resources Workshop

Notices

Orchid Sale

Horticultural Greenhouse every Monday, now through February from 8:30am-3:30pm. Call 822-3283.

Campus Tours

School and College Liaison Office Friday morning tours for prospective UBC students. Reserve one week in advance. Call 822-4319.

MOA Recent Acquisitions

Maiolica Majolica: Historic and contemporary decorated earthenware. Museum of Anthropology New Lobby. Now through February 28 during regular hours. Free with museum admission. Call 822-5087.

Executive Programmes

One/Two Day Business Seminars. Feb. 1-15: The Business Of Software, \$795; Project Management Process, \$950; Time Management, \$550; Creating/Developing Self-Managing Work Teams, \$795; Cost Management, \$795. Speaking For Results, \$395; Meeting The Pay Equity Challenge, \$695. Call 822-8400.

Reading/Writing/Study Skills Centre

Winter non-credit courses: Reading for Speed and Comprehension; Grammar and Composition; Study Skills; Writing Improvement; Choosing the Right Word; Writing Business Letters/Memos; Writing Reports/Proposals; Robert's Rules. Call 222-5245.

Negotiating Across Cultures: The Multicultural Workplace. R. Margolis. A workshop to develop communication skills in the multicultural workplace.

Angus 109 from 1-4pm. Call 822-9583.

Thursday, Feb. 11

Students For Forestry Awareness Speaker Series

Crossroads In BC's Forests. Dr. Clark Binkley, dean, Forestry. MacMillan 166 from 12:30-1:30pm. Call 222-1882.

Friday, Feb. 12

MIS Research Workshop

How Experts And Novices Use A Decision Aid To Solve Problems In Complex Knowledge Domains. J. Elam, Florida International U. Angus Penthouse from 1-2:30pm. Call 822-9552.

Saturday, Feb. 13

Law Symposium

Eastern Europe And Russia: A Perspective. Curtis 101 from 9am-4pm. Call 822-4238/3443.

Women Students' Office
Winter term groups taking registration for career planning, assertiveness, self-esteem, making peace with food, bicultural women/mature women students support. Advocacy/personal counselling services available for women students. Call 822-2415.

Professional Development For Language Teachers

Intensive weekend workshop: Managing The Language Classroom. Evening workshops include educational field trips, teaching reading comprehension, reflecting on the teaching of writing. Beginning January 19. Call 222-5208.

Spanish Immersion Program

Program will be held in Cuernavaca, Mexico from Mar. 1-19. Call Language Programs/Services at 222-5227.

International Development Week

February 1-6 at International House. Seminars, conferences and discussion groups. Call 822-5021.

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.

Statistical Consulting/ Research Laboratory

SCARL is operated by the

Department of Statistics to provide statistical advice to faculty and graduate students working on research problems. Call 822-4037 or e-mail scarl@stat.ubc.ca.

Institute Of Pacific Relations Research

A review of a Canadian participation in the Institute of Pacific Relations (IPR, 1925-61) is being prepared at the Institute of International Relations. Anyone with information on the IPR please call Lawrence Woods at 822-6875.

Clinical Research Support Group

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

Psychiatry Research Studies

Psychiatric Study Involving Eye Test. Volunteers are needed as control group. Study involves one eye test at Vancouver General Hospital and one interview at UBC—total time 1 1/2 hours. Stipend \$15. Call Arvinder Grewal at 822-7321.

EXAM SCHEDULE HOAX

A phoney, blue, preliminary exam schedule has been posted around campus. The real exam schedule will be posted in mid-February in locked display cases. Registrar's Office, 822-2844.



UBC GAZETTE

The Board of Governors, at its meeting of January 21, 1993, approved the following recommendations and received notice about the following items.

NEW & RENEWED APPOINTMENTS

James Sherrill, Associate Dean, Faculty of Education, July 1, 1993 to June 30, 1998

Charles Ungerleider, Associate Dean, Faculty of Education, July 1, 1993 to June 30, 1998

Jane Gaskell, Associate Dean, Faculty of Education, July 1, 1993 to June 30, 1995 and July 1, 1996 to June 30, 1999

Sie-Tan Chieng, Acting Head, Department of Bio-Resource Engineering, January 1, 1993 to June 30, 1993

Tony Pitcher, Director, Fisheries Centre, January 1, 1993 to June 30, 1998, and Professor, Fisheries Centre and Department of Zoology, January 1, 1993 without term

Thomas Froese, Assistant Professor, Department of Civil Engineering, November 1, 1992 to June 30, 1994

Shiv Shankar Prasad, Assistant Professor, Department of Ophthalmology, July 1, 1993 to June 30, 1994

Peter Riben, Assistant Professor, Department of Pathology, July 1, 1992 to June 30, 1994

Qing-San Xiang, Assistant Professor, Department of Radiology, November 1, 1992 to June 30, 1994

Paul Steinbok, Associate Professor, Department of Surgery, July 1, 1992 to June 30, 1994

Lorne Sullivan, Associate Professor, Department of Surgery, July 1, 1992 to June 30, 1995

RESIGNATIONS

The Board accepted the following resignations with regret.

K.V. Lo, Head, Department of Bio-Resource Engineering, December 31, 1992 (to continue as Professor)

Sam Coval, Professor, Department of Philosophy, November 30, 1992

Richard Robinson, Associate Professor, Department of Philosophy, November 30, 1992.

Gordon Tener, Professor, Department of Biochemistry, November 30, 1992

Geoffrey Anderson, Assistant Professor, Department of Health Care and Epidemiology, December 31, 1992

T. Watanabe, Professor, Department of Geophysics & Astronomy, November 30, 1992.

Robert Barrie, Professor, Department of Physics, November 30, 1992

LEAVES

Study Leaves

Agricultural Sciences

George Iwama, Animal Science, September 1, 1993 to August 31, 1994

Applied Science

Peter Byrne, Civil Engineering, September 1, 1992 to August 31, 1993 (change from July 1, 1992 to June 30, 1993)

Richard Campanella, Civil Engineering, January 1, 1993 to June 30, 1993 (change from July 1, 1992 to June 30, 1993)

Michael Quick, Civil Engineering, January 1, 1993 to June 30, 1993

Cyril Leung, Electrical Engineering, September 1, 1993 to August 31, 1994

Sander Calisal, Mechanical Engineering, September 1, 1993 to August 31, 1994

E.G. Hauptmann, Mechanical Engineering, July 1, 1993 to June 30, 1994

Hilton Ramsay, Mechanical Engineering, September 1, 1993 to August 31, 1993

George Poling, Mining & Mineral Process Engineering, January 1, 1993 to August 31, 1993

Marilyn Dewis, Nursing, July 1, 1992 to June 30, 1993 (change from September 1, 1992 to August 31, 1993)

Barbara Hilton, Nursing, July 1, 1993 to December 31, 1993

Ethel Warbinek, Nursing, September 1, 1992 to August 31, 1993 (change from July 1, 1992 to June 30, 1993)

Arts

John Barker, Anthropology & Sociology, July 1, 1993 to December 31, 1993

Yunshik Chang, Anthropology & Sociology, September 1, 1992 to August 31, 1993

Millie Creighton, Anthropology & Sociology, September 1, 1993 to August 31, 1994

John O'Connor, Anthropology & Sociology, July 1, 1993 to June 30, 1994

Richard Pearson, Anthropology & Sociology, September 1, 1993 to August 31, 1994

Ashok Aklujkar, Asian Studies, January 1, 1993 to June 30, 1993

Donald Baker, Asian Studies, July 1, 1993 to June 30, 1994

Jo-Shui Chen, Asian Studies, September 1, 1992 to August 31, 1993

Kenichi Takashima, Asian Studies, July 1, 1992 to June 30, 1993 (change from July 1, 1992 to December 31, 1992)

Kinya Tsuruta, Asian Studies, September 1, 1993 to August 31, 1994

Gerald Sandy, Classics, January 1, 1994 to June 30, 1994

Hector Williams, Classics, July 1, 1993 to December 31, 1993

Robert Allen, Economics, July 1, 1993 to June 30, 1994

Brian Copeland, Economics, July 1, 1993 to June 30, 1994

Leslie Arnovick, English, September 1, 1993 to August 31, 1994

Laurel Brinton, English, September 1, 1993 to August 31, 1994

David Evans, English, September 1, 1993 to August 31, 1994

Graham Good, English,

September 1, 1993 to August 31, 1994

Iain Higgins, English, July 1, 1992 to June 30, 1993

Nicholas Hudson, English, July 1, 1993 to June 30, 1994

Harriet Hirkley, English, September 1, 1993 to August 31, 1994

Roger Seamon, English, July 1, 1993 to June 30, 1994

Katherine Sirluck, English, September 1, 1993 to August 31, 1994

Fred Stockholder, English, September 1, 1993 to August 31, 1994

Philip Austin, Geography, January 1, 1993 to June 30, 1993

Klaus Petersen, Germanic Studies, July 1, 1993 to June 30, 1994

Joerg Roche, Germanic Studies, July 1, 1993 to June 30, 1994

Michael Rochemont, Linguistics, September 1, 1993 to August 31, 1994

Lynn Alden, Psychology, leave cancelled, January 1, 1993 to June 30, 1993

Anita Delongis, Psychology, July 1, 1993 to June 30, 1994

James Enns, Psychology, July 1, 1993 to June 30, 1994

Peter Graf, Psychology, July 1, 1993 to June 30, 1994

Darrin Lehman, Psychology, July 1, 1993 to June 30, 1994

Keith Hamel, Music, July 1, 1993 to June 30, 1994

French Tickner, Music, July 1, 1993 to June 30, 1994

Mary Russell, Social Work, July 1, 1993 to June 30, 1994

Commerce & Business Administration

Gerald Feltham, January 1, 1993 to December 31, 1993

Larry Moore, September 1, 1993 to August 31, 1994

Dean Uyeno, July 1, 1993 to June 30, 1994

Education

Thomas Sork, Administrative, Adult & Higher Education, January 1, 1994 to August 31, 1994

John Allan, Counselling Psychology, September 1, 1993 to August 31, 1994

Ishu Ishiyama, Counselling Psychology, January 1, 1994 to June 30, 1994

Margaret Early, Language Education, January 1, 1994 to June 30, 1994

Hillel Goelman, Language Education, September 1, 1993 to December 31, 1994

Lee Gunderson, Language Education, July 1, 1994 to December 31, 1994

Florence Pieronek, Language Education, July 1, 1993 to June 30, 1994

Kenneth Reeder, Language Education, July 1, 1993 to June 30, 1994

Anne Anthony, Physical Education & Recreation, January 1, 1994 to June 30, 1994

John Kelso, Physical Education & Recreation, July 1, 1993 to December 31, 1993

Jerrold Coombs, Physical Education & Recreation, September 1, 1993 to August 31, 1994

Law

Phillip Bryden, July 1, 1992 to June 30, 1993

Douglas Sanders, January 1, 1993 to June 30, 1993

J.C. Smith, January 1, 1993 to December 31, 1993

Medicine

Pieter Cullis, Biochemistry, July 1, 1993 to June 30, 1994

Robert Molday, Biochemistry, July 1, 1993 to June 30, 1994

Peter Pare, Medicine, July 1, 1993 to June 30, 1994

Urs Steinbrecher, Medicine, July 1, 1993 to June 30, 1994

Joanne Matsubara, Ophthalmology, January 1, 1993 to June 30, 1993

Michael Whitford, Paediatrics, September 1, 1992 to August 31, 1993

Campbell Clark, Psychiatry, January 1, 1993 to December 31, 1993

Robert Krell, Psychiatry, January 1, 1993 to June 30, 1993

George Szasz, Psychiatry, January 1, 1993 to December 31, 1993

Pharmaceutical Sciences

David Fielding, July 1, 1993 to June 30, 1994

Science

Carl Douglas, Botany, July 1, 1993 to June 30, 1994

Ray Anderson, Chemistry, leave cancelled, January 1, 1993 to June 30, 1993

Tadeusz Ulrych, Geophysics & Astronomy, September 1, 1992 to August 31, 1993

Joel Feldman, Mathematics, July 1, 1993 to December 31, 1993

Dale Peterson, Mathematics, September 1, 1992 to August 31, 1993

John Smit, Microbiology, September 1, 1993 to August 31, 1994

Luis de Sobrino, Physics, July 1, 1993 to December 31, 1993

Peter Rastall, Physics, January 1, 1994 to June 30, 1994

Other Leaves

Agricultural Sciences

Shannon Marie Berch, Soil Science, September 1, 1992 to August 31, 1993

Applied Science

Patricia Patkau, Architecture, January 1, 1993 to May 31, 1993

Gloria Joachim, Nursing, September 1, 1992 to August 31, 1993

Carole Robinson, Nursing, September 1, 1992 to August 31, 1993

Arts

Kathryn Hansen, Asian Studies, September 1, 1992 to August 31, 1993

Joshua Mostow, Asian Studies, July 1, 1992 to June 30, 1993

John Helliwell, Economics, July 1, 1992 to June 30, 1993

Kalevi Holsti, Economics, September 1, 1992 to December 31, 1992

Guy Carden, Linguistics, January 1, 1993 to June 30, 1993 and January 1, 1994 to June 30, 1994

Commerce & Business Administration

P. Devereaux Jennings, July 1, 1992 to December 31, 1992

Nancy Langton, July 1, 1992 to December 31, 1992

Vojislav Maksimovic, July 1, 1992 to June 30, 1993

Dentistry

David Sweet, Oral Medical & Surgical Sciences, March 15, 1993 to July 15, 1993

Rita Watson, Educational Psychology & Special Education, November 1, 1992 to June 30, 1993

Ethel Gardner, First Nations House of Learning, September 1, 1992 to August 31, 1993

L. Anne Clyde, Language Education, January 1, 1993 to December 31, 1993

Doug Owens, Mathematics & Science Education, January 1, 1993 to March 31, 1993

Forestry

Peter Dooling, Forest Resources Management, September 1, 1992 to December 31, 1992

Law

Robert Grant, July 1, 1992 to June 30, 1993

Joseph Weiler, July 1, 1992 to June 30, 1993

Medicine

W.C. Peter Kwan, Medicine, July 1, 1992 to June 30, 1993

Charles Pollick, Medicine, September 1, 1992 to August 31, 1993

Sherill Purves, Medicine, September 1, 1992 to August 31, 1993

Science

Samuel Chanson, Computer Science, January 1, 1993 to December 31, 1993

Michael Ward, Mathematics, July 1, 1992 to June 30, 1993

Administrative Leave

Graduate Studies

Alan Artibise, Community & Regional Planning, July 1, 1993 to June 30, 1994

Law

Elizabeth Edinger, July 1, 1992 to May 31, 1993

Medicine

Carol Herbert, Family Practice, September 1, 1993 to February 28, 1994

Victor Gornel, Obstetrics & Gynaecology, January 1, 1994 to December 31, 1994

CORRECTION

Robert Donaldson, Head, Department of Electrical Engineering, July 1, 1992 to June 30, 1997.



THE UNIVERSITY OF BRITISH COLUMBIA

UBC GAZETTE

SENATE RECOMMENDATIONS

The Board approved the following recommendations from Senate concerning chairs as follows:

Chairs in Computer Engineering; South-North Studies, the David and Brenda McLean Chair in Canadian Studies and a Chair in American Studies.

PROPERTY

Main Campus Plan - Public Process

The Board approved Amendment #2 to the Main Campus Plan which outlines public participation in Strategy #38—The Campus Development Process, and Strategy #39—Plan Continuity.

FINANCE

Student Activity and Tuition Fee

The following changes in the Student Activity and Tuition Fee were approved by the Board:

(a) all 1993-94 tuition fees will be reduced by 1.68% before any annual adjustment yet to be determined and offset by an increase in the 1993-94 student activity fee of \$30.76 or \$1.71 on a per credit basis.

(b) the student activity fee will be increased in 1993-94 by the same inflationary increase applicable to credit tuition fees.

Graduate Student Society Fees

The following changes to Graduate

Student Society fees were approved by the Board at the request of the Graduate Student Society as a result of its referendum held in May 1992.

Graduate Student Society fees will be increased by \$8.00 to a total of \$33.00; such increase to take effect September 1, 1993.

The Graduate Student Association fee in the amount of \$1.00, which is presently collected separately from the Graduate Student Society fee, will be incorporated into the Graduate Student Society bringing the total Graduate Student Society fee to \$34.00, such change to take effect September 1, 1993.

Policies

The Board approved policies with respect to Purchasing, Campus Mail, Ownership and Disposal of Surplus Equipment and Materials. These policies will be published in the near future by the President's Office, and will be distributed widely on campus.

Agreements

The Board approved a research affiliation agreement for intellectual property between the University and University Hospital.

An agreement between the University and the Vancouver General Hospital with respect to the UBC School of Nursing was approved.

Special Fees

The Board approved increases in the following special fees to the levels noted:

	From	To
MBA Application Fee, Faculty of Commerce and Business Administration	\$55	\$75
Teacher Education Program Application Fees, Faculty of Education		
(a) applicants from B.C.	\$25	\$40
(b) applicants from outside B.C.	\$35	\$50
Agricultural Sciences 300 Field Trip Faculty of Agricultural Sciences	\$210	\$225

OTHER MATTERS

Faculty Pension Plan Amendments

At the request of the Board of Trustees of the UBC Faculty Pension Plan, the Board approved amendments to the Pension Plan which are primarily to comply with required changes made necessary by amendments to the federal Income Tax Act. One amendment legitimizes participation in the plan by certain groups of employees of TRIUMF and the Executive Director of the Faculty Association.

The adoption of these amendments ensures that the pension plan continues to qualify under the registration rules established in the Income Tax Act; and

that certain current and future employees of TRIUMF and the Faculty Association are permitted to participate in the plan.

University Athletic Council - Change to Membership

Mr. Robert Philip, Director, Athletics and Sport Services was appointed retroactively to July 8, 1992, to the council as an ex officio (non-voting) member replacing Dr. R. Mosher; and Mr. Ian Burgess was appointed to the council as a faculty/staff representative.

Health Sciences Week 1993

The Board designated the week of October 10-16 as UBC Health Sciences Week 1993.

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UBC REPORTS

Advertising Rates
& Deadlines

38,000 copies of UBC Reports are published twice-monthly and distributed on the UBC campus and in The Courier on Vancouver's West Side.

Mechanical Requirements:

Page Size: 15.5" x 10.25"
Columns: five per page
Black & white copy only

Display ad rates: (GST not included)

Full page (10" x 15")	\$750.00
1/2 page (10" x 7.5")	\$500.00
1/4 page (6" x 7")	\$300.00
1/8 page (4" x 4.75")	\$135.00
1/16 page (1 7/8" x 5")	\$70.00
Business card ad (4" x 2")	\$56.00

*other sizes: \$14 per column inch

Classified advertisement: (GST included)

\$15 for 35 words or less. Each additional word 50 cents.

Advertising Deadlines:

Feb 2	for Feb 11 issue
Feb 16	for Feb 25 issue
Mar 2	for Mar 11 issue
Mar 16	for Mar 25 issue

For advertising information call:
(604) 822-3131

Key to better treatment of breast cancer found

by **Connie Filletti**

Staff writer

The survival of breast cancer patients can be predicted with the careful measurement of four predictive factors at the time of initial diagnosis, says a UBC researcher.

A study by Pathology Professor William Godolphin and co-investigator Lydia Schek indicated that the size of the tumor, the amount of estrogen receptor present in the tumor, whether the cancer had spread and the number of dead cells found in the tumor determined overall survival and disease-free survival.

The researchers based their findings on a 10-year follow-up study of 1,200 breast cancer patients registered with the B.C. Cancer Agency.

"This is not to say that a patient's fate was decided at diagnosis, but we could say how aggressive the disease was and ought to be treated," Godolphin said.

Of those breast cancer patients with good prognostic indicators at the time of diagnosis — a small tumor, lots of estrogen receptor, no spreading of the disease and no dead tumor cells — 95 per cent or better were still alive five years later, he said.

Only a small percentage of those patients with the poorest prognostic indicators were still living after the same length of time.

Godolphin originally pinpointed a dozen predictive factors.

"It came down to two questions," he explained. "Given all of these predictive factors, what was the smallest number needed to do the best job of prediction? Secondly, which were the most important factors that co-relate with survival?"

Godolphin believes that this information is a vital tool in recommending treatment for breast cancer patients.

"Physicians can now ask themselves if the disease should be treated like a rapidly ticking time bomb or like a slowly running clock," he said.

"If it's predicted to be relatively non-aggressive, there's no reason

to use your most powerful weapons which are dangerous and unpleasant in themselves."

The B.C. Cancer Agency now issues recommended treatments based on Godolphin's study.

Breast cancer remains the leading cause of cancer deaths in Canadian women aged 35 to 54 and killed more than 500

women in B.C. last year.

Of the 14,400 women across the nation diagnosed as having breast cancer in 1992, about 5,100 will die — about five times the number of people who will die from AIDS.

Godolphin's study was funded by the British Columbia Health Research Foundation.



Steve Chan photo

Driving Force

A determined Bob Heighton of the Thunderbirds makes his move against the Puget Sound Loggers. The T-Birds close out their regular season at home Feb. 19-20 against the Lethbridge Pronghorns.

UBC Multicultural Liaison Office



Spring Workshop Series co-sponsored with the UBC English Language Institute, the Centre for Faculty Development and Instructional Services, UBC Human Resources, the International Student Centre and the Women's Resources Centre of UBC. Workshops free of charge.

Negotiating Across Cultures: The Multicultural Workplace
Developing communication skills in the multicultural workplace.
Facilitator: Rhonda Margolis

Date: Wednesday February 10, 1993
Time: 1:00 p.m. - 4:00 p.m.
Place: Room 109, Henry Angus Building
Limited spaces available. Please register with Human Resources by fax at 822-8134, attention Maura Da Cruz.

Negotiating Across Cultures: The Multicultural Classroom
Developing skills in cross-cultural communication in the classroom.
Facilitators: Katherine Beaumont/Mackie Chase

Date: Wednesday, February 24, 1993
Time: 3:00 p.m. - 5:00 p.m.
Place: Room 109, Henry Angus Building
Limited spaces available. Please register with the Centre for Faculty Development & Instructional Services at 822-9149.

Workshops are in wheelchair accessible locations. Sign language interpreters will be available by contacting the Multicultural Liaison Office no later than one week prior to the workshops at 822-9583.

Watch for further workshops in March and April.

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The classified advertising rate is \$15 for 35 words or less. Each additional word is 50 cents. Rate includes GST. Ads must be submitted in writing nine days before publication date to the UBC Community Relations Office, 207-6328 Memorial Road, Vancouver, B.C., V6T 1Z2, accompanied by payment in cash, cheque (made out to UBC Reports) or internal requisition. Advertising enquiries: 822-3131.

The deadline for the February 11, 1992 issue of UBC Reports is noon, February 2.

Accommodation

HOUSE FOR RENT One year starting July 1993. Three bedroom, \$950/month. Utilities extra. Richmond, near Steveston, 30 minute drive to UBC. Close to schools and bus. Ideal for family with small children. Martin & Theresa Trotter 274-2702.

Miscellaneous

DO IT RIGHT! Statistical and methodological consultation; data analysis; data base management; sampling techniques; questionnaire design, development, and administration. Over 15 years of research and consulting experience in the social sciences and related fields. 433-7807.

The Frog & Peach

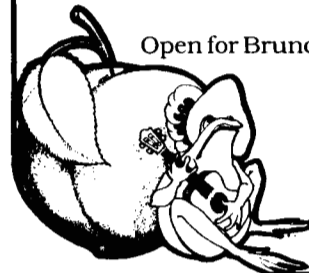
For the relentlessly untrendy

Open for Brunch Saturday & Sunday 11:30 - 2 p.m.

4473 W. 10th Avenue

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Phone: 228-8815



\$10 off with this ad when a second entree of equal or greater value is ordered

Friends of Chamber Music presents the

Boston Chamber Players

performing: **Mozart**, Trio for Piano, viola & clarinet, K. 498;
Ravel, Sonata for Violin & cello &
Schumann, Piano Quintet.

Tuesday, February 2, 1993, 8:00 PM.
at the Vancouver Playhouse.

Tickets: \$22 (students \$11)
from the Vancouver Ticket Centre (280-4444) or at the door.

Programme subject to change.

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PLUS SPECIAL BONUS OFFER
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New centre studies policy

by **Abe Heffer**

Staff writer

The impact and effectiveness of existing and alternative economic and social policies in Canada and abroad will be the focus of a centre which has been established by the Dept. of Economics.

"We believe the Centre for Research on Economic and Social Policy (CRESP) can make a significant contribution to public policy formation in Canada, as well as generate academic benefits in teaching and research," said CRESP Director and Economics Professor Jon Kesselman.

The centre will cover topics related to the economics of the public sector and the taxation, expenditure, social and labor market policies of governments.

"Work of the centre will range from highly focused, applied analyses of specific public policies to more general analyses of public-sector economic issues

and policy evaluation methods," Kesselman said.

"In addition, our work will examine the underlying markets and social conditions that form the setting for public policies."

The centre will draw on the strengths of the Economics Dept. and related disciplines across campus.

Public policies have attracted considerable analysis from existing research entities both within Canada and abroad, Kesselman said. However, none of the existing bodies in Canada concentrates on the range of public-sector policies and evaluation methods that will be covered by CRESP.

"CRESP offers the academic orientation that can lead to innovative analysis, using the best available technical methods and concepts, rather than non-technical and often ad hoc assessments of existing policies," he said.

Kesselman, along with two members of the CRESP advisory board, Economics Dept. Head

Craig Riddell and Economics Professor David Green, have already been called upon by the federal government for their expertise.

They participated in the design of the government's recently announced Self-Sufficiency Project, a \$50-million experiment being conducted in B.C. and New Brunswick. The project offers cash incentives for single parents on welfare to seek out employment.

"This is just one example of how the centre can assist in public policy," said Kesselman.

The centre obtained a \$100,000 grant to help develop its plans from the innovations branch of Employment and Immigration Canada.

If the centre succeeds in its attempts to raise an endowment, it would like to attract visiting academics and senior governmental policy-makers to UBC to interact with faculty on economic and social policy issues, said Kesselman.

Music school scores British composer

Acclaimed British composer Sir Peter Maxwell Davies has been commissioned to write a full-length concert piece in collaboration with UBC's School of Music. The work, based on the Book of Job, will be for orchestra, chorus and soloists.

"It is wonderful to contemplate that UBC may be the site of the first performance of a major work by one of the world's finest living composers," said school Director Robert Silverman. "The enormous artistic gratification,

prestige and financial benefits attached to this project are obvious."

The project is being funded by a donation of \$90,000 from The David Lemon Foundation in support of the school's Musical Instruments and Endowment Fund.

Part of the university's World of Opportunity campaign, the fund is meant to attract a wide variety of distinguished concert artists, composers and scholars to campus for concerts, master

classes and short-term residences. Silverman hopes that an honorary residency might be established for the composer while the work is in progress.

In making the donation, UBC benefactor David Lemon expressed hope that Davies will conduct the first performance, which will include UBC performers, in the new Chan Centre for the Creative and Performing Arts.

The work is scheduled for completion by the spring of 1997.

People

by staff writers

Donna Geernaert has been selected as the visiting Murrin Scholar in Residence for the winter term of 1993.

A native of Vancouver, Sister Geernaert taught at the University of Alberta before joining the Canadian Conference of Catholic Bishops where she co-ordinates the areas of women in the church and ecumenism. While at UBC she will teach a course in Religious Studies called Christian Ecumenism: From "Scandal" to Opportunity. She will also give public lectures on Ecumenism Feb. 3, Feb. 24 and March 17 in Buchanan D239 at 12:30 p.m.



Donna Geernaert

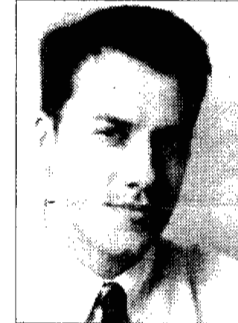
The Murrin Fund comes from the legacy of G.W. Murrin to provide for activities devoted to the spiritual well-being of students at UBC.

Law Dean **Lynn Smith** is one of 10 B.C. lawyers recently appointed Queen's Counsels.

Smith is former chair of the National Canadian Bar Association Committee on Equality Rights and serves with the Women's Legal Education and Action Fund. Her major scholarly work has been in the areas of equality and human rights, civil litigation and evidence.

Smith has also been appointed to a 13-member committee created to develop a new organization representing provincial health care employers. The new organization will be responsible for co-ordinating all human resource issues including training, staffing and collective bargaining.

Ian **Smith**, assistant manager of the Animal Science farm and a UBC graduate, is the university's new sexual harassment policy advisor. His appointment, effective immediately, runs to August, 1993.



Ian Smith

Smith joins Margaretha Hoek, who has served as a sexual harassment policy advisor since the Sexual Harassment Office opened in 1989.

Smith has also been associated with the office since its inception, serving as a member of the hearing committee which is charged with rendering decisions in sexual harassment cases and with recommending disciplinary action.

The sexual harassment policy advisors are responsible for explaining the protection and procedures available under UBC's sexual harassment policy, and to advise individuals on options open to them.

Lois **Moen**, an administrative clerk in the office of the Dean of Medicine, has been elected to the university's Board of Governors.

Moen was elected as a staff representative for a three-year term beginning Feb. 1. She defeated 10 other candidates for the position.

She has held her current job since 1989, after joining the university in 1988 as a clerk in the Telecommunications Dept.

Moen has served as a shop steward for CUPE 2950 since 1989 and as chief shop steward since Feb., 1992. She sits on the union local's executive and grievance committees and has recently been elected to the job evaluation committee.

Assistant Professor **Paul Krause's** book, *Battle for Homestead, 1880-92: Politics, Culture and Steel*, has been named by Publisher's Weekly as one of the 50 most significant books from among the more than 50,000 published in 1992.

Krause's work recounts the 1892 lockout and strike at the Carnegie steelworks in Homestead, Pennsylvania. The strike is considered by many to be the most important labor dispute in industrializing America.

Krause has been with UBC's Dept. of History since 1989.



Paul Krause

Peter **Ufford**, vice-president of External Affairs, has won the Outstanding Professional Award given by the Association of Fund Raising Professionals of British Columbia.

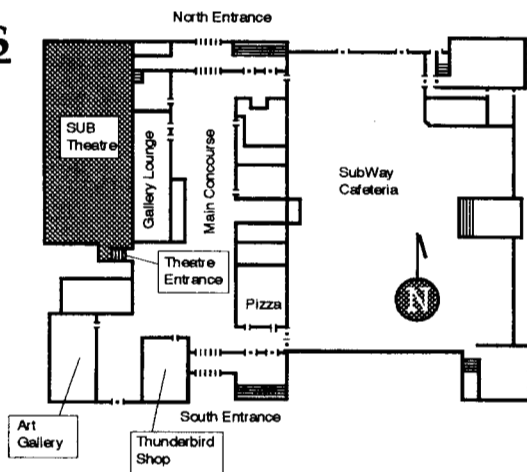
The association's Philanthropy Awards honor outstanding achievement and recognize the dedication, commitment and value of volunteers, corporations, business and fund-raising professionals.

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Come and experience our new Dolby surround sound system and 35mm projectors! The SUB Theatre is located between the Gallery Lounge and the Art Gallery on the main floor of the Student Union Building.

UPCOMING SHOWS

- Passenger 57 - Jan. 29-31
- Goodfella's - Feb. 3-4
- Best of UBC Films - Feb. 10-11
- Some Like It Hot - Feb. 17-18
- A Fish Called Wanda - Feb. 17-18
- Sid & Nancy - Feb. 24-25
- Prick Up Your Ears - Feb. 24-25
- James Bond Festival - March 3-4
- Polyester - March 10-11
- This Is Spinal Tap - March 17-18
- American Friend - March 24-25
- Blues Brothers - March 31-Apr. 1



All screenings \$3.00 each. Showtimes 7:00 pm and 9:30 pm. Call our info line: 822-3697

Forum

Can Clinton change Bush's New World disorder?

by Adel Safty

Adel Safty is a political scientist and an assistant professor in UBC's Faculty of Education. He is author of *From Camp David to the Gulf: Negotiations, Language and Propaganda, and War*, published by Black Rose Books. The following is reprinted from *The Globe and Mail*.

Change was a basic theme in Bill Clinton's successful campaign. He wants to change politics as usual and change the old guard thinking with new thinking. Good. The new world order he inherits from President George Bush is badly in need of different thinking and urgently requires change.

In its confrontation with Iraq, the Bush administration foreclosed all possibilities of a negotiated UN or Arab settlement to the crisis; it wrested control of the crisis and enlarged the war aims while reducing the UN to providing diplomatic cover; it continued an unnecessarily brutal war even after the Iraqis offered to withdraw from Kuwait; it sought to overthrow Saddam Hussein and when it failed it weakened his hold on his country by imposing no-fly zones in the north and in the south. Sooner or later Saddam Hussein was bound to challenge the humiliating result of his defeat.

In going to war against Iraq, President Bush articulated a vision of a new world order based on the sanctity of international law and human life, and a greater role for the United Nations. But the vision turned out to be highly selective: When Serbia challenged the will of the world with its genocidal war against Bosnia, Washington showed no interest in whipping the United Nations into supporting military actions against the aggressor.

George Kenney, the Bush administration's top man at the State Dept. for Yugoslav affairs, resigned in disgust. He complained that the administration was not interested in hearing about the Serbian policy of genocide, and called the Bush administration's policy a classic case of appeasement. Poor Bosnia, after all, has no oil.

The UN may still play an important role in the new world order not because of the Bush administration's vision, but in spite of it.

The end of the cold war and the collapse of the Soviet Union and the socialist bloc created unique opportunities for a new world order. Since 1945 there have been more than 100 major wars which caused the death of 20 million people. The UN remained impotent in most of them because the rival superpowers used their vetoes 279 times to paralyse the Security Council into inaction while bloody conflicts raged on.

UN Secretary General Boutros Ghali recently presented constructive proposals to the Security Council. He called for more binding arbitration by the World Court to prevent disputes from erupting into wars and proposed the establishment of a permanent 20,000-strong UN peacekeeping force. The Bush administration showed little interest. President Bush even refused Boutros Ghali's request for American help in setting up a force of 2,000 specially trained peace soldiers to be at the disposal of the Security Council to send on urgent peace missions.

The Bush administration's decision to intervene in Somalia, after 300,000 people had already died, came after warnings from the CIA and the National Security Council about Sudanese support for Islamic fundamentalism in Somalia and about unfriendly control of entrance to the Red Sea.

Last month, Gen. Colin Powell, chair of the U. S. Joint Chiefs of Staff, confirmed that the United States might leave a "residual" force off the coast of Somalia for an undetermined period.

The Bush administration's rhetoric of a new world order was in fact a useful device to marshal support for the American-led war against Iraq. The real foundations of the administration's vision of a new world order can be found somewhere else.

Two crucial and classified documents recently prepared by officials from the Pentagon, the State Department and the White House outline the U. S. blueprint for the new world order. The first was prepared under the supervision of Paul D. Wolfowitz, the Pentagon's undersecretary for policy; the second was prepared by a committee headed by Admiral David Jeremia, assistant to Gen. Powell. Both documents articulate a set of American political and military objectives and policy guidelines for the post Cold War era.

They clearly state that:

The United States must prevent the emergence of a new rival power;

-It must convince even its friendly competitors that they need not aspire to a greater role in the new world order;

-It must maintain world order by "selectively" redressing wrongs around the globe which threaten its interests;

-NATO must be maintained and Eastern and Central Europe encouraged to join it;

-An imposing American military posture must be maintained in Asia to ensure no regional power can challenge American interests;

-The United States must remain the only predominant outside power in the Middle East;

-To do all this while supporting the spread of capitalism the United States must rely on its military might and the "early introduction" of its global anti-missile defense system.

There is little mention of international law, the UN, or North-South harmony. American military might is the principal instrument of preserving American domination in the new world order. Although coalitions "hold considerable promise for promoting collective action" as in the war against Iraq, the US must be able to act with or without international backing because "the world order is ultimately backed by the United States."

But the industrialized nations have their own agenda. The Japanese have modified their constitution to authorize the dispatch of Japanese troops in peacekeeping missions. The Germans are getting ready to do the same thing. France and Germany have already moved toward the establishment of a Franco-German army as the nucleus of a European-based security system to replace NATO. Both Germany and Japan are lobbying for permanent seats at the Security Council to wield in international affairs political power commensurate with their economic might.

Such regional powers and demographic giants as India, Brazil and Mexico want their place in the Security Council so that the latter's composition will look more like the real world than like the G7 group of industrialized nations.

All this offers the Clinton administration unique opportunities to promote the ideal and reality of a new world order based on an indivisible code of morality and human solidarity. It will require courageous and visionary leadership.



Adel Safty



David Gray photo

Peter Byrne, professor in the Dept. of Civil Engineering, tests structural strength with an earthquake simulator that reproduces the exact ground motion of a tremor.

Campus on solid ground when the big one hits

by Gavin Wilson

Staff writer

The UBC campus will fare better than some other areas of the Lower Mainland when an earthquake strikes, says one of B.C.'s leading seismologists.

Civil Engineering Professor Peter Byrne said the campus sits on glaciated soil that is dense and compact, which will help to minimize surface ground shaking when the inevitable earthquake occurs.

"When glaciers covered this area, the huge load densified the soil," said Byrne.

He said that many parts of the Lower Mainland are built on less stable, river delta soils. In these areas, layers of sand and silt sit on a base of river mud — an even worse combination than the infill areas of San Francisco's Marina District, which suffered substantial damage during the 1989 earthquake.

Created after the glaciers of the last ice age retreated, these delta lands are prone to 50 per cent greater amplification of ground movement than glaciated soils. As well, the sand deposits can liquefy during a quake, as water pressure in the pores of the soil increases, turning solid ground into a treacherous quagmire.

"Liquefaction is not a matter of speculation, as it was before," Byrne said. "We have the geological evidence that this has occurred here one or more times in the past 5,000 years."

Particularly vulnerable are most of Richmond, Delta and Pitt Meadows, and those parts of Surrey, Burnaby and Vancouver adjacent to the Fraser River.

Meanwhile, at UBC, Byrne said there is little danger of the Point Grey cliffs giving way during an earthquake.

"There would be a bit of sloughing off, perhaps, but no failure of the slope. It's very good, strong soil," he said.

As well, most buildings at UBC are constructed with reinforced concrete or wooden frames, which withstand ground movement better than unreinforced masonry, he said, although there are some older buildings on campus that could suffer severe damage during a major earthquake.

There is a 10 per cent chance of a magnitude six to seven earthquake — which would have the potential to cause serious damage — occurring here in the next 50 years, Byrne said.

A greater concern are so-called subduction earthquakes, which could reach Richter magnitude eight.

Such earthquakes occur where the enormous segments of the earth's crust known as plates collide, and one slides beneath the other. The Juan de Fuca subduction zone, where the Juan de Fuca plate slides under the continental margin, starts about 120 kilometres west of Vancouver Island.

At this distance, its effect in Vancouver may be no greater than a smaller local earthquake, Byrne said. But because such an earthquake occurs across a long fault line, damage would be much more widespread, with Victoria and other parts of Vancouver Island faring the worst.

Subduction quakes are thought to occur in this region every 500 years on average. The most recent one was 300 years ago.

The less powerful local earthquakes would have to occur within 30 to 40 kilometres of Vancouver at magnitude seven to produce widespread damage, he said.