

UBC



The University of British Columbia
Vancouver, British Columbia
Volume 38, Number 12
August 13, 1992

Fiscal restraint leads to budget cuts

By GAVIN WILSON

A clouded financial picture that is being compared to the restraint era of the 1980s has led to campus-wide cuts in the 1992/93 budget.

More than \$4.1 million has been trimmed from the recurring budgets of university departments, offices and faculties — an average of 1.6 per cent.

Some areas have received deeper cuts, including a reduction of more than eight per cent in the operating budget of the Faculty of Agricultural Sciences.

The cuts were made to help balance the \$320-million general purpose operating budget approved by the university's Board of Governors in July.

"From an income point of view, this is the most difficult year we have faced in several years," President David Strangway told board members. "It bears a great deal of similarity to the restraint years of the early 1980s."

The university's major source of income, the provincial government's annual operating grant, was up two per cent this year, for a total of \$267 million.

But this follows a year in which inflation topped five per cent, Strangway said. The university also faces many cost increases which are fixed, imposed by regulation, or stem from approved agreements.

These increases are not recognized in the provincial government's operating grant and must be absorbed this fiscal year, he said.

As well, expectations of additional access funding to boost enrolment at UBC — at both the undergraduate and graduate level — were dashed when the provincial government retracted its commitment to increase the number of funded student places, said Strangway.

The last increase in access funding came in April, allowing an additional 200 undergraduate and 84 graduate positions.

On top of the provincial operating grant, the university had an income of \$47 million from credit course fees, \$1 million from miscellaneous fees, and \$4.8

million from interest and other income.

More than 80 per cent of the university's expenses are from salaries and benefits. A further \$6.3 million goes toward utilities, \$6.4 million to library acquisitions, \$6.8 million to student aid, and \$35 million to other non-salary expenses.

The recently negotiated salary increases for faculty added a one-time, retroactive \$1.3 million to the fiscal year cost of 1991/92. The academic contingency fund was used to offset this expense and balance the budget.

Salary settlements for most university employees in 1991/92 have now been reached, with the exception of teaching assistants belonging to the Canadian Union of Public Employees, Local 2278 and day care workers.

For 1992/93, salary adjustments are also outstanding for management and professional staff, non-union technical staff and excluded staff.

The entire budget narrative will be published and distributed this fall.

"From an income point of view, this is the most difficult year we have faced in several years."

Task force poised to tackle global gridlock

By CHARLES KER

Feet first, pedal next, motor maybe.

"That would make a good bumper sticker," Setty Pendakur's guest blurts out. Not surprisingly, the suggestion draws no response.

As recently appointed chair of the Global

Task Force on Non-Motorized Transport, Pendakur isn't big on bumpers. Still, that doesn't stop him from thinking up catchy phrases for the two primary alternatives to cars — cycling and walking.

"People have an emotional love affair with their motor vehicles in this country and the divorce isn't going to come easy," he said.

Pendakur, who has taught transportation issues in UBC's School of Community and Regional Planning for 26 years, hopes the 29-member task force helps hasten the divorce. The world's cities, he says, are running out of room to move and clean air to breathe largely because of an overabundance of moving metal on roads.

The task force will seek to change people's attitudes towards daily travel by highlighting how other countries have successfully tackled their inner-city traffic problems.

Some examples:

- In January, Amsterdam citizens voted by referendum to prohibit cars from coming into the central business district without a special pass.

- Singapore drivers, who currently shell out \$100 a month for the privilege of driving downtown, may soon have to pay by the kilometre under a new concept known as electronic road pricing.

- In Bangalore, India (twice the size of metropolitan Vancouver), 25 per cent of trips are by bicycle, while an equal percentage of Finns in

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Inside

OLYMPIC GOLD: UBC Olympians participating in the Barcelona games followed in the footsteps of 35 former UBC students in bringing home Olympic medals in rowing. Page 2.

HELPING HAND: More than 2,000 international students from close to 90 countries were enrolled at UBC last year. Staff at International House, along with 400 volunteers, are ready to greet the newest batch of arrivals. Around & About, page 3.

SAY WHAT?: Misleading metaphors, inflated language, weasel words and gobbledygook are some of the tools used by public speakers who abuse English with doublespeak. English Professor Philip Allingham uncovers the worst. Forum, page 8.



Photo by Charles Ker

Native carver Ken McNeil dances under the watchful eyes of a totem pole he helped create for the First Nations Longhouse, a project funded by UBC's World of Opportunity campaign.

Native artists celebrated as Longhouse posts unveiled

An enthusiastic audience of close to 100 Native students, elders, architects, administrators and faculty applauded the unveiling of four carved house posts at UBC's First Nations Longhouse last month.

Two, 19-metre red cedar roof beams, carved in the shape of a sea lion and killer whale by Haida artist Don Yeomans, were also hoisted into place amidst ceremonial

chanting by First Nations graduate Ron Hamilton.

The two-hour ceremony, convened on the construction site of the magnificent 106-metre-long structure, paid tribute to the artists who shaped the giant cedar posts and beams which will frame the Great Hall of the Longhouse.

See CEDAR on Page 2

Computer porn ordered deleted from UBC computers

UBC President David Strangway has instructed University Computing Services (UCS) to delete all pornographic material from the UCS computer files.

"Several colleagues have written to me regarding the availability of pornographic material on UBCNet. I wish to assure you that neither I nor the university condone such vulgar and reprehensible "news" items on computer network bulletin boards," he said.

Strangway has asked all UBC units to ensure that university property is not being used to gain

access to, create, or store such pornographic material on university computing equipment, noting that some of the material sent to his office was not found in UCS computer files.

Bernard Sheehan, associate vice-president, Information and Computing Systems, is in the process of establishing a task force to examine the appropriate uses of information technology at UBC and make recommendations.

"Dr. Sheehan has been working on this issue with the UCS staff for several weeks and has been collecting background information from other institutions worldwide," Strangway said.

Hi-tech brings life to limbs

By GAVIN WILSON

Picking up a telephone, flicking on a light switch, and turning the page of a book are daily acts that most of us take for granted. But for people who have lost the use of their arms, they are impossible tasks.

UBC researchers Douglas Romilly and Cecil Hershler are developing an orthotic device to help replace the power and movement in the arms of these people.

Among those who could benefit are those suffering from polio, spinal cord injuries, multiple sclerosis, muscular dystrophy, strokes, and amyotrophic lateral sclerosis (ALS, or Lou Gehrig's Disease).

"There is a whole class of people who have lost mobility and muscle function in their limbs but they can still feel texture and temperature," said Romilly, an assistant professor in the Dept. of Mechanical Engineering.

"We're trying to build a device that would give them back their mobility."

Romilly and Hershler, a clinical associate professor in the School of Rehabilitation Medicine, are in the early stages of a three-year project to develop prototypes for an improved orthotic device.

Many of the existing orthotics are very sophisticated, but suffer from a number of problems: they are too heavy, too complicated to use, and so expensive that few can afford them (unlike prostheses, orthotics are not covered by the B.C. medical plan).

The root of these problems, said Romilly, is that these orthotic designs try to fully mimic human movement, and this has proven to be too complex.

Romilly and Hershler are taking a different approach. They surveyed people who have lost muscle function in their arms and asked them which tasks they would like help in performing.

"It may not be as important to fully mimic human movement as it is to provide a certain function," said Romilly.

Most of the research project to date



Photo by Martin Dec

Graduate student Carolyn Anglin tests orthotic device.

has involved an evaluation of an existing state-of-the-art orthotic device, made by the Hugh MacMillan Rehabilitation Centre in Toronto.

The device comprises a series of aluminum braces that strap onto the arm, mounted across the chest with a pivot point under one arm to take the weight.

It is powered by a pair of battery-operated motors, which are operated by two electrodes placed above the eyebrows of the user. Movement of the user's forehead muscles turns the motors on and off. The orthotic allows users to rotate their forearm, reach out, and grasp objects with a thumb and two fingers.

Although it has the advantage of

being less expensive and is easier to put on and remove than many other models, Romilly said its limitations are fast becoming evident.

"It doesn't allow the user to make two movements at once. It can't, for example, allow you to reach for and grab a cup at the same time — that's two separate movements," he said.

"We're using it as a learning tool to create the next generation of devices."

The researchers plan to build five prototypes of their new design, sending one back to the MacMillan lab. The other four will be clinically evaluated on patients.

Romilly and Hershler's work is funded in part by a \$190,000 grant from the provincial Ministry of Health.



Letters to the Editor

Negotiations 'a disaster'

The Editor:

I object to the self-congratulatory tone of the statements by the Faculty Association President in the July 16 UBC Reports concerning the recent faculty salary settlement for 1991-1992. In fact the Faculty Association's policy in negotiating that settlement was a disaster. The University made us an acceptable offer in 1991, but the Association, as always, wanted more, regardless of the circumstances. As a result of the subsequent delay we have been denied our rightful salary increase for an entire year, have lost all the interest that could have been earned from it, and have finally been awarded it in a year when a new income tax surtax is being imposed. Furthermore, when an agreement was finally reached, the time for a 1992-93 increase was upon us, with the University facing new fiscal restraints. The impact of a zero increase for 92-93 was muffled by its being coupled with the long-delayed increase for the previous year. If the Association had negotiated in a realistic and timely fashion in 1991 that decision would have been long behind us, and we could have faced the new situation in its own terms. In effect, the Association played into the administration's hands.

Daniel L. Overmyer
Asian Studies

UBC athletes strike gold at Olympics

Edmonton native Megan Delehanty "rows" to the occasion at the Summer Olympics in Barcelona.

Delehanty, a PhD candidate at UBC in Microbiology, put in a gold-medal performance in Spain to add to the university's rich Olympic history in rowing.

She wasn't alone.

Joined by alumni Kathleen Heddle of Vancouver and Jessica Monroe of North Vancouver, they teamed up with Kirsten Barnes of Victoria, Brenda Taylor of Sidney, B.C., Lesley Thompson of London, Ont., and Shannon Crawford,

Marnie McBean and Kay Worthington of Toronto, to finish first in the women's eights with coxswain.

They were coached by another UBC alumnus, Al Morrow, a competitor at the 1976 Summer Olympics in Montreal, who also guided the women's fours to a gold medal in Barcelona.

"We pushed really hard," Delehanty later reflected after returning from the rowing venue at Lake Banyoles to the main athletes' village in Barcelona.

"If you challenge for that gold

medal, you don't let anyone take it away from you."

The Canadian crew finished a whopping four seconds ahead of the pack. However, Delehanty said the thought of winning didn't enter her mind until the race was almost over.

"We were expecting a really tight race. But being so far ahead of the rest, I started to think, yeah, we're going to do it."

Another UBC alum, Mike Rascher of Fernie, B.C., brought home the gold as a member of the winning men's eights with coxswain.

Delehanty,

Heddle, Monroe, Rascher and Morrow follow in the footsteps of 35 former UBC students who have brought home Olympic hardware in rowing.

Past gold-medal performances in Olympic rowing have also come from Ned Pratt, Walter D'Hondt, Archie McKinnon, Don Arnold, and Lorne Loomer in 1956; George Hungerford and Roger Jackson in 1964; and Pat Turner and Paul Steele in 1984.

More than 50 rowers from UBC have represented Canada in Olympic competition.



Delehanty

Today's focus on cars, not people

Continued from Page 1

Helsinki cycle downtown to work in the dead of winter.

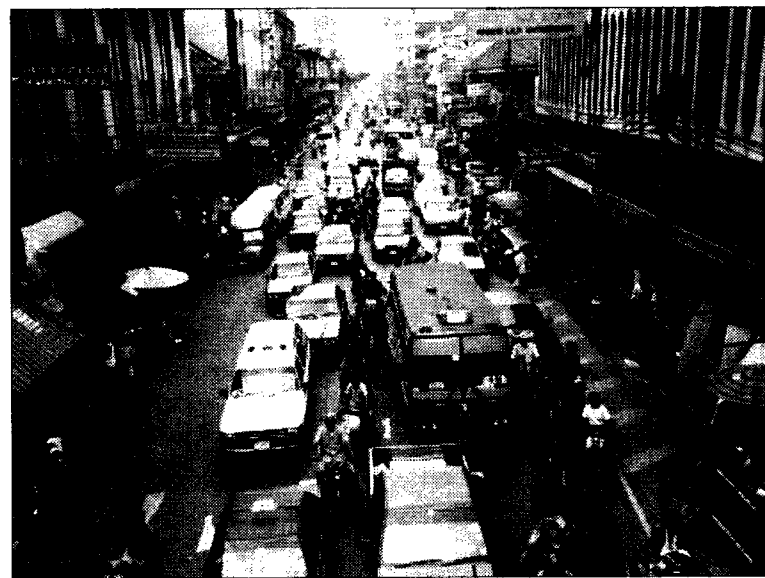
Meanwhile, Pendakur points out that the City of Vancouver recently balked at a suggestion it levy a parking tax which amounted to about \$2 a month.

"Governments have to take the lead and ask questions of the engineers and economists because right now environmental costs and benefits are being left out of the whole spectrum of analysis and professional practice," said Pendakur.

"Transportation priorities today revolve around moving cars, not people."

Organized by the 70-year-old Transportation Research Board and the U.S. National Academy of Sciences, the three-year task force will seek to get environmental traffic considerations on the agendas of planners and economists by holding yearly conferences and special seminars. The task force won't be doing research of its own, but rather getting experts from around the world together to talk about their innovations.

"In trying to retrofit North American cities for bicycles or walking we



Bangkok's traffic jams test the patience of the most stalwart motorist.

don't have to reinvent the wheel but learn from the experience of others," said Pendakur, who added that Canada is 20 years behind countries in Northern Europe in terms of accommodating cyclists in urban plans.

The task force membership will consist of five people from interna-

tional lending and aid agencies, five from developing countries (India, Nigeria, Indonesia, Thailand, Hong Kong), eight academics and professionals from the U.S. and 11 members from Canada, Australia, Germany, France, Japan, the U.K., Norway, Sweden and the Netherlands.

Cedar posts, beams depict ancestral figures

Continued from Page 1

Artists Susan Point (Coast Salish), Lyle Wilson (Haisla), Ken McNeil (Tahltan/Tlingit/Nisga'a) and Stan Bevan (Tahltan/Tlingit/Tsimshian) and Chief Walter Harris and his son Rodney (Gitksan) described their creations after each was unveiled: a stylized owl for Point's post; eagle and beaver figures for Wilson's; the raven for McNeil and Bevan's carving; and a wolf with three figures representing

students atop the Harris' contribution.

Among those in attendance were philanthropists Jack Bell and Bill Bellman, each of whom contributed \$1 million towards the project and Douglas McArthur, B.C.'s deputy minister of aboriginal affairs.

The \$4.9-million longhouse will be a centre for the university's First Nations students, staff and faculty when it opens at the end of the year.

University cuts ties to exclusive men's club

By **CONNIE FILLETTI**

UBC will no longer cover expenses incurred by university personnel at clubs that bar women from membership, says President David Strangway.

Previously, it was possible for faculty and staff to be reimbursed for work-related entertainment costs.

The policy accompanied the resignations, in July, of both Strangway and Dan Birch, vice-president Academic and provost, from the prestigious Vancouver Club.

The club does not admit female

members.

"This is not acceptable today, if it ever was, as women take their full and rightful place in all parts of our society, whether business, law or accounting firms," Strangway said in his letter of resignation to club president Gerald McGavin.

"It is with great regret that I take this step," he added. "I had hoped that the necessary changes in the Vancouver Club would be initiated, but I see no sign that this is happening."

As a member, Strangway had been

actively lobbying the club's executive to admit women. Recently, he attempted to nominate two prominent women for membership without success.

Birch, who became a club member through an amalgamation of the Vancouver Club and the University Club of Vancouver in 1972, has not patronized the club since 1974.

"It became clear to me that all-male clubs patronized by the men in business and community leadership positions were among the mechanisms in our society which, without ill intent,

served to limit the advancement of women," Birch's letter of resignation stated.

He said he remained a member in order to vote to admit women, thinking that such a decision was not only "inevitable, but would be accomplished in short order."

Birch and Strangway resigned following a decision by the club's executive board to reject the nomination of women, despite advice that their membership was not prevented by the club's constitution or bylaws.

Currently, there are 24 UBC faculty, staff and emeriti who are members of the Vancouver Club. It will be left up to individuals to decide if they retain personal memberships in the club, Strangway said.

Other prominent Vancouver Club members to resign in recent months include Bill Saywell, president of Simon Fraser University, Haig Farris, director of the Science Council of B.C., Erich Vogt, director of TRIUMF and Peter Lusztig, former dean of UBC's Faculty of Commerce.

High school physics Olympians win bronze

Two high school students coached by Christopher Waltham, an assistant professor in the Dept. of Physics, won bronze medals at the 23rd annual International Physics Olympiads held recently in Helsinki, Finland.

Paul Tupper, of Vancouver, placed 39th overall out of 177 students from 37 countries who were entered in the competition. Patrick Premont, of Valleyfield, Que., came in 54th place. Both earned bronze medals.

Adrian Dunn of North Hatley, Que., earned an honorable mention for his 70th-place showing.

The Canadian team at the Chemistry Olympiad in Pittsburgh and Washington, D.C., also did well, but failed to win any medals. They were coached by Gordon Bates, an associate professor in the Dept. of Chemistry.



Photo by Media Services

The giant redwood seen in healthier days sporting the Lights of Learning, an annual Christmas event.

Ill health downs giant redwood tree

It's time to say goodbye to an old friend.

The sequoiadendron giganteum, the 17-metre California Redwood tree that has stood tall outside the Main Library since the first days of UBC, is in failing health.

Efforts by university horticulturalists to revitalize it have been unsuccessful and the tree is scheduled to come down during the last week of August.

"A report prepared by a professional arborist suggests the tree's energy bank is nearly exhausted," said Mike Hanson, grounds trades supervisor with the Dept. of Plant Operations.

Hanson said the tree is failing rapidly with only small amounts of viable leaf and a considerable amount of disease within the crown. This year's drought likely had an impact as well, he added.

"The report indicates the tree's

rate of decline can only increase and death is imminent," Hanson said.

"The tree will become a hazard and must come down before it comes down on its own, during a windstorm this fall, for example."

The California Redwood, which towered over the university's Lights of Learning ceremony for the past two years, could still remain part of UBC's tradition. Hanson said the university is investigating the possibility of incorporating its wood in the new library building.

Hanson said the university is exploring the possibility of planting a new sequoiadendron in the same vicinity.

Kresco Pavlovic, head gardener at UBC, said if that is the case, the gardening crew will do its best to ensure that the newly planted tree has every opportunity to grow and flourish.

Around & About

Welcoming hand extended to international students

By **RON BURKE**

At the University of B.C.'s International House, five staff and more than 400 volunteers from on- and off-campus are quietly busy, offering support and encouragement to UBC students from other countries.

"Our main purpose is to assist international students to achieve their academic ambitions at UBC," says Shirin Theophilus, one of two student advisors at International House. "We also promote goodwill between these students and Canadians."

During the 1991-92 academic year, there were 2,077 international students from more than 90 countries at UBC.

In Second to None, UBC's mission statement, President David Strangway clearly outlines the university's commitment to internationalizing both UBC and the educational experience of its students, stating: international students not only benefit from what the university has to offer, but make a major contribution to the educational en-

terprise from their varied backgrounds and different perspectives.

International House plays a role in this commitment by welcoming and supporting incoming international students.

From humble beginnings in 1953, International House opened its present home in 1959, following a traditional UBC tenure in an army hut. Construction funds were raised primarily by the Rotary Club of Vancouver and the Vancouver-South (then Marpole) Rotary Club, along with other on- and off-campus groups. Both Rotary clubs are still active on the centre's board of directors.

UBC is the only university in Canada, as far as Theophilus knows, that has a facility specifically devoted to international students.

"It's wonderful that we're able to provide a safe environment where international students can interact with each other and with Canadians, and grow," she says.

In addition to supporting interna-

tional students at UBC, the centre keeps a library of information about educational, work and volunteer opportunities around the world, as a resource for all UBC students.

Community volunteers — some of whom have been associated with

"We're able to provide a safe environment where international students can interact with each other and with Canadians, and grow."

the centre for more than a decade — are a key ingredient in International House's array of programs. During the spring, volunteers write personalized letters to all incoming international students. In the summer, volunteers greet students at the Vancouver airport and assist them with the search for housing.

The centre also offers year-round services to support and encourage students. Canadian students are matched with internationals in the peer program, a buddy system designed to encourage cultural exchanges and appreciation, along with

friendship and support. Last year, close to 100 Canadian students were exposed to international cultures and friendships through peers.

The language services program offers English-as-a-Second-Language classes to both students and their spouses, who may feel isolated due to lack of English skills. This also has a social value, as the classes bring together families of students.

A translation service is offered by the language bank program. People drop off material to be translated into various languages by international students, who do so as a volunteer service for the university community.

And there are social and recreational programs to help international students have a well-rounded experience at UBC. Members are encouraged to participate in fitness classes, hiking and biking expeditions, group outings to local attractions and various social get-togethers.

All of these programs are staffed by volunteers, whether faculty, staff,

students or members of the community.

Diane Larsson, a UBC social work student and assistant coordinator of the 1992 summer reception program, says that when she started, she was amazed at the amount of time volunteers were willing to put in.

"But now I understand how much people get from volunteering here, what a great learning experience it is for them," she says.

"Mostly," adds Theophilus, "we're providing the skills, resources and environment to enable international students to adapt to the UBC environment. We're not trying to change them, just help them make a smooth transition to UBC, so as to support their academic achievement."

Do you know of an unsung hero — faculty, staff, student or member of the community — at UBC? If so, drop a note to The Editor, UBC Reports, Community Relations Office, Zone 2.

August 16 -
September 5

FRIDAY, AUGUST 28

Biotechnology Lab Seminar

Transferrin Receptor: Mechanism of Receptor-Mediated Endocytosis And Prospects For Immunotherapy. Dr. Ian Trowbridge, The Salk Institute for Biological Studies, San Diego, CA. IRC #3 at 3:30pm. Call Dr. Will Jefferies at 822-6961.

FRIDAY, SEPTEMBER 4

Paediatrics Grand Rounds

Cancelled. Call 875-2118.

NOTICES

Honorary Degrees Nominations

The Tributes Committee is now accepting nominations for honorary degrees for 1993. Nominations/requests for forms may be mailed to the Ceremonies Office, Room 214, Old Administration Building. Deadline for nominations is Sun., Aug. 30, 1992. Call 822-2484.

UBC Campus Tours



Enjoy a free, walking tour of UBC's gardens, galleries, recreational facilities and more. Drop-in tours leave the Tour & Information desk in the SUB at 10am and 1pm, weekdays. Other times plus specialized tours for seniors, children, ESL groups, persons with disabilities and other groups available by booking ahead through Community Relations at 822-3777.

Campus Tours For Prospective Students

School And College Liaison Office provide tours of the campus every Friday mornings. Brock Hall 204D at 9:30am. Advance registration required. Call 822-4319.

CALENDAR DEADLINES

For events in the period September 6 to September 19, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Tuesday, August 25, to the Community Relations Office, Room 207, 6328 Memorial Rd., Old Administration Building. For more information call 822-3131. The next edition of UBC Reports will be published September 3. Notices exceeding 35 words may be edited. The number of items for each faculty or department will be limited to four per issue.

Orientation '92

Campus orientation for new students. All first year students, their parents, and college transfer students are invited to attend, through Sept. 4. Call School and College Liaison Office at 822-3733.

Frederic Wood Theatre Season Ticket Sale

Translation, Sept. 23-Oct 3; Woyzeck, Nov. 18-28; Sticks And Stones, Jan. 13-23; Dombey And Son, Mar. 10-20. Subscription rates: adults \$34, students/seniors \$23. Single tickets for Translation, \$10 and \$7, respectively. Preview Wed Sept. 23, two for \$10. Call 822-2678.

Museum Of Anthropology Exhibits

The Transforming Image. Recovery/restoration of Northwest Coast paintings through the museum's infra-red photography process. Gallery 5. Savage Graces: After Images By Gerald McMaster. Galleries 9/10. Daily, 11am-5pm; Tues., 11am-9pm. Call 822-5087.

Fine Arts Gallery

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

Institute of Asian Research Art Exhibit



Chinese Seals And Calligraphy. Special art exhibit to honor a former Research Associate Dr. Johnson Chow on his 70th birthday. Asian Centre Auditorium, Aug. 22-31 from 11am-6pm. Call Anthony Chung at 266-4155.

Giant Deer Antlers Fossil Exhibit



Survival of the fittest or evolution gone wild? View the M.Y. Williams Geological Museum's giant deer antlers fossil exhibit. Weekdays, 9am-5pm. Sat., 10am-5pm. Collectable Earth specimen shop open weekday afternoons plus Saturday. Free admission.

Executive Programmes

Business seminar, Aug. 17-18: Maintenance Management. Fee \$895/person. MacPhee Executive Conference Centre, Commerce. Call 822-8400.

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. Forms for appointments available in Ponderosa Annex C-210. Call 822-4037.

ESL Evening Classes

Ten courses include Conversation Skills, Speaking Skills for Seminars/Meetings, Basic Writing/Grammar, Advanced Composition, TOEFL Preparation. Start date: Sept. 28/29; classes: twice a week. Call 222-5208.

Computer Applications For ESL Speakers

Learn about microcomputers or WordPerfect 5.0 and improve your English language skills at the same time. Call 222-5208.

Laboratory Chemical Safety Course

Covers safe chemical storage, handling/disposal, laboratory inspections, emergency/spill response. Free to UBC staff, students/graduate students; non-UBC participants \$200. Chemistry 250, Aug. 25-26 from 8:30am-12:30pm. Half-day practical session required. Call 822-2029.

Sexual Harassment Office

Advisors are available to discuss questions and concerns on the subject. They are prepared to help any member of the UBC community who is being sexually harassed to find a satisfactory resolution. Call Margaretha Hoek at 822-6353.

Diet Composition/Muscle Function Study

Healthy, non-smoking, sedentary males, 18-35 years needed for 2 testing periods, 10-12 days each. Metabolic rate, body composition and muscle function tested. All meals provided; must be consumed at Family/Nutritional Sciences Building. Call 822-2266.

High Blood Pressure Clinic



Volunteers (over 18 years) needed, treated or not, to participate in clinical drug trials. Call Dr. J. Wright in Medicine at 822-7134.

Seniors Hypertension Study

Volunteers aged 60-80 years with mild to moderate hypertension, treated or not, needed to participate in a high blood pressure study. Call Dr. J. Wright in Medicine at 822-7134.

Drug Research Study

Male and female volunteers required for Genital Herpes Treatment Study. Sponsoring physician: Dr. Stephen Sacks, Medicine/Infectious Diseases. Call 822-7565.

Heart/Lung Response Study

At rest and during exercise. Volunteers aged 35 years and up of all fitness levels required. No maximal testing. Scheduled at your convenience. Call Marijke Dallimore, School of Rehab. Medicine, 822-7708.

Women, Work And Stress



Secretarial/clerical workers needed to participate in a study investigating problems/methods of coping with work-related stress. Call Karen Flood in Counselling Psychology at 822-9199.

Retirement Study

Women concerned about retirement planning needed for an 8-week Retirement Preparation seminar. Call Sara Comish in Counselling Psychology at 931-5052.

Jock Itch Study

Volunteers 18-65 years of age are needed to attend 5 visits over an 8-week period. Honorarium: \$100 to be paid upon completion. Call Dermatology at 874-6181.

Teaching Spouses Memory Strategies

If your spouse has memory problems and you want to learn some techniques to help, call Karen or Monica at 822-2140.

Surplus Equipment Recycling Facility (SERF)

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

Boiler efficiency key to pulp mill profitability

By ABE HEFTER

An international research effort spearheaded by the Dept. of Mechanical Engineering could result in multi-million-dollar savings for the pulp and

paper industry, with significant benefits for British Columbia.

Investigators from Canada, the United States, Finland, and Sweden — led by department Head Martha Salcudean and Professor Ian Gartshore — are looking for ways to improve the design and operation of the recovery boiler, one of the vital cogs in any kraft pulp and paper mill.

"The recovery boiler is the key to a pulp mill's productivity," said Salcudean. "Any kraft mill that wants to increase its paper-making capacity must overcome the limitations of its boiler."

Salcudean said an increase in a boiler's efficiency and productivity of only a few percentage points would result in huge savings for pulp and paper mills.

"We have already developed the computer technology to simulate a boiler's air flow and calculate the amount of air necessary for effective operation," she said.

"We will now factor in other elements, like combustion, in order to understand the complete process. Air flow is one crucial piece of the puzzle."

The \$2-million project, which runs until 1996, is being funded by the federal government, the U.S. Dept. of Energy, the B.C. Science Council, the Natural Sciences and Engineering Research Council, and Weyerhaeuser Canada and the U.S.

Weyerhaeuser's contribution includes two fully functional small scale recovery boiler models, which are located at UBC.

"These models enable us to visualize the entire flow," said Salcudean.

Last month, senior representatives of Weyerhaeuser were on campus to meet with Salcudean and Gartshore, along with UBC President David Strangway, other members of the university administration, and Applied Science Dean Axel Meisen, to discuss the latest devel-



Photo by Kevin Miller

UBC Engineering Professor Martha Salcudean meets with senior representatives of Weyerhaeuser Paper Company (from left) George Weyerhaeuser Jr., David McInnes and James Ferris.

opments in the project.

"The visit is representative of Weyerhaeuser's tremendous support," said Salcudean. "The support

has led to a level of success that has drawn the interest of pulp and paper mills and boiler makers from around the world."

UBC Reports is the faculty and staff newspaper of the University of British Columbia. It is published every second Thursday by the UBC Community Relations Office, 6328 Memorial Rd., Vancouver, B.C., V6T 1Z2. Telephone 822-3131. Advertising inquiries: 822-3131. Managing Editor: Steve Crombie. Ass't Editor: Paula Martin. Production: Bill Jamieson. Contributors: Ron Burke, Connie Filletti, Abe Hefter, Charles Ker, and Gavin Wilson.

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Opportunity

The UBC Campaign News

AUGUST 1992

Another campaign landmark



World of Opportunity Campaign Honorary Chairman Sir Cecil Green digs in at a sod turning for western Canada's first residential graduate college. Green College, named for UBC's great benefactor and friend, will attract graduate students from a variety of scholarly disciplines. Joining Sir Cecil in the sod turning are (l to r) President David Strangway, Premier Mike Harcourt, and Philip Graham.

Photo by Pat Higinbotham

World of Opportunity Campaign Chairman Bob Wyman announced that \$220-million has been raised to date, at a major dinner to recognize Campaign donors, Chancellor's Circle patrons and Wesbrook Society members, May 30.

"Our Campaign has registered another record year thanks to men and women like you who have invested in UBC," Wyman told the donors.

The 'Supporting Scholarship' tribute dinner, held in the War Memorial Gym, celebrated the academic endowments, chairs, centres, professorships and scholarships created with funding from the Campaign.

The gym was converted into a Great Hall, complete with a stained glass window constructed by the UBC Theatre Department, and life-sized portraits of UBC's former chancellors and presidents.

Broadcast journalist Joe Schlesinger, former diplomat Ivan Head and geneticist Patricia Baird were the special guest speakers who shared insights gained through the benefit of their many experiences.

Wyman and UBC President David Strangway acknowledged several donors among those in attendance who made recent contributions to UBC:

- Tong Louie for funding the Tong Louie Chair in Pharmacy Administration;
- the St. Paul's Hospital Foundation for establishing Canada's first Chair in AIDS;
- Brenda and David McLean

See Campaign, page 2

David Lam Centre opens

UBC has officially opened the first building to be constructed with funds from the World of Opportunity Campaign -- the \$8.2-million David Lam Management Research Centre.

The new building, located at Main Mall and Agricultural Road, adjacent to the Henry Angus building, will house facilities of the Faculty of Commerce and Business Administration.

The Lam building is the first of nine new buildings to be constructed over the next decade with funds from the Campaign.

"This is a very special day for the University of British Columbia," President David Strangway told dignitaries at the building's opening ceremony. "I'm sure we'll look back on this day and say, 'this is where it all began.'"

The building was made possible by a \$1-million donation from the David and Dorothy Lam Foundation and other contributions, including matching funds from the provincial government.

"We are very fortunate to have such good friends as the Honourable David Lam and Dorothy Lam, whose generosity and vision were the impetus for this building. The good will they have bestowed on this university has been unsparing," said Strangway.

Other major donors are Edgar F. Kaiser Jr., L.O.M. Western Securities and Peter M. Brown, the Real Estate Foundation of B.C., Royal Trust Ltd., MacMillan Bloedel Ltd., Lily and Robert H. Lee, Chevron

See First, page 4



Cutting the ribbon at the David Lam Management Research Centre opening are (l to r) Commerce Dean Michael Goldberg, Mrs. Dorothy Lam, Lieutenant Governor David Lam and Advanced Education Minister Tom Perry.

Inside...

- UBC pays tribute to Hong Kong donors
- Graduating classes leave legacy through Class Act program
- Japanese Prince and Princess turn sod for Nitobe Garden Renovation

UBC welcomes Hong Kong '92

In October, Canada will play host to Festival Hong Kong '92 -- an exchange of culture, education and business through a series of events in Toronto, Montreal, Calgary, Ottawa and Vancouver.

The theme of the event is 'Bridge across the Pacific' and for UBC, the theme is particularly appropriate. For more than 50 years, UBC has bridged the Pacific through study and research. Today, the university is recognized as one of the principal North American centres for Asian Studies.

UBC will be taking part in the Festival, through several exhibits which will be featured at the Museum of Anthropology and the Asian Centre, through symposia, and through recognition of friends and donors to the World of Opportunity Campaign who have their roots in Hong Kong.

Hong Kong alumni and donors have given their support to UBC for several World of Opportunity Campaign projects, including:

• **The David Lam Management Research Centre** Named in honour of businessman, philanthropist and long-time friend of UBC, The Honourable David Lam, Lieutenant-Governor of B.C. (see story page 1)

• **Chan Centre for the Performing Arts** The Centre, funded through a gift of \$10 million from the Chan family, will provide an exciting setting for public lectures, university performances and ceremonies, and international performances. Tom and Caleb Chan, the sons of Dr. Chan Shun, have spearheaded the project.

• **Scholarships and Endowments** The Campaign continues to offer many opportunities for endowing innovative projects that contribute to the advancement of knowledge and society. Hong Kong alumni and friends have contributed to the following projects:

Hongkong Bank Chair in Asian Commerce
David Lam Management Research Library Endowment

David Lam Chair in Multicultural Education
Dorothy Lam Chair in Special Education
Dr. S. Wah Leung Endowment Fund



Hong Kong Support: (l to r) UBC Librarian Ruth Patrick, President David Strangway, Library donor Sultan Vicwood Chong and Dr. Anthony Cheng, President of the Hong Kong Branch of the UBC Alumni Association.

C.K. Choi Scholarships and Fellowships
Hong Kong - Canada Business Association Graduate Scholarship in Commerce
Hong Kong - Canada Business Association Graduate Scholarship

The President's Fund with donations from Hong Kong alumni, Mr. George Tso and Mr. Senta Wong

• **Institute of Asian Research** The Institute will include regional centres to focus on Chinese Studies, Japanese Studies, Korean Studies, South Asian Studies and Southeast Asian Studies. Endowment funds for chairs and fellowships and capital funds for construction are being sought for each centre. A benefactor in Hong Kong has donated a generous gift which, with government matching funds, will provide half of the \$4 million needed for the funding of a Centre for Chinese

Campaign reaches \$220-million mark

Continued from page 1

for the establishment of the Bob Hindmarch Scholarship, an Endowment for the University Singers, a Chair in Canadian Studies, the Brenda McLean Endowment in the Creative and Performing Arts and the David McLean Leadership Award;

• Bill and June Bellman for making a major donation to the First Nations Longhouse;

• the Man in Motion World Tour Society for funding a Chair in Spinal Cord Physiology;

• the Heart and Stroke Foundation of B.C. and the Yukon for supporting a Heart and Stroke Foundation Chair in Cardiology;

• the B.C. Lung Association for funding a Professorship in Occupational Health;

• the Vancouver Japanese Businessmen's Association (Konwakai) and members of Keidanren in Japan for funding a Centre for Japanese Research and the restoration of Nitobe Garden;

• the Sammi Group, the Korea Foundation, Timothy Seow, Yan Jung Shin and Jin H. Kim for supporting a Centre for Korean

Research;

• the Chinese Canadian Dental Society of B.C. for supporting the S. Wah Leung Chair in Dentistry.

When active fund raising for the World of Opportunity Campaign winds down at the end of the year, UBC's goal is to complete the Campaign with \$252-million raised.

"I'm sure that many of you are wondering when this Campaign will end. Why didn't it end two years ago, when we reached our original goal?," said Wyman.

He went on to explain that in planning the Campaign, UBC analyzed two things: the perceived needs of the university and community response to those needs. When community response overwhelmed the original expectation, the university opened its file.

"Those needs, still pressing and still vital to the growth and development of UBC, are still on the table. We haven't closed the file. We are still short of our goal to fund many projects," Wyman said.

The projects include a New Library Centre, an expanded Institute of Asian Research, and several additional endowments, chairs and professorships.

Studies.

Thanks to the Hongkong Bank's contribution toward a Chair for the Director for the Institute of Asian Research, UBC has appointed Dr. Mark Fruin.

• **Education Abroad Program** It is UBC's goal to ensure that five per cent of our graduating students will have had the opportunity to spend one of their years of study outside Canada. Likewise, UBC will welcome a similar number of international students to study here. The Education Abroad Program enables outstanding graduate students and undergraduate students to integrate into the academic and social life of a foreign country, while fulfilling degree requirements of their home universities.

UBC alumni in Hong Kong have been instrumental in initiating the Education Abroad Program. Hong Kong donors include Cathay Pacific Airways, Mr. Simon K.Y. Lee, and the Chan Tat Chee Memorial Fund.

• **The Library** Through the Campaign, UBC is raising funds for a New Library Centre which will address an urgent need for more space to house the expanding collection.

Sultan Vicwood Chong, Chairman and Managing Director of the Vicwood Group in Hong Kong, has made a generous donation to the Library.

• **Campaign Leadership** UBC's Campaign Leadership Committee and Advisory Council is made up of many members in Hong Kong, including T.C. Ho, Vice Chairman and Chief Executive Officer of Hang Seng Bank Ltd.; Michael Y.L. Kan of Michael Y.L. Kan Co. Ltd.; UBC alumnus William F. Spence, Executive Vice President Asia, Canadian Imperial Bank of Commerce; UBC alumnus Joseph Yu, Executive Director of Po Kay Securities and Shares Co. Ltd.; UBC Alumnus Dr. Anthony Cheng, President of the Hong Kong branch of the Alumni Association. The university is also grateful for the support of the B.C. Government Office in Hong Kong, headed by Dickson Hall.

UBC is committed to its international mission, linking cultures and economies through research and education. UBC alumni and friends are forming a network around the world -- a bridge of learning for the 21st Century.

Major Donors to the World of Opportunity Campaign

As of May 30, 1992

The University of British Columbia is pleased to recognize the following donors to the World of Opportunity Campaign.

Recognition is also gratefully extended to the Government of British Columbia which has expressed its commitment to higher education by matching gifts to the Campaign, and to the Vancouver Foundation for matching gifts to the President's Fund Opportunity Endowment.

The full value of the donor gifts, plus matching contributions, are gratefully acknowledged below.

\$10,000,000 or more including matching funds

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\$2,000,000 to \$9,999,999 including matching funds

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Photo by John Banfield

Japanese garden, centre funded

Their Imperial Highnesses, Prince and Princess Takamado of Japan, paid a special visit to UBC to turn the sod for the \$1-million renovation of the Nitobe Memorial Garden, May 25.

The renovation has been made possible through the fund raising efforts of the Vancouver Japanese Businessmen's Association (Konwakai) and corporate members of Keidanren in Japan. An additional gift has been made by the Commemorative Association for the Japan World Exposition (1970).

Japanese landscape architect Toshiaki Masuno will start refurbishing the garden in October and is expected to complete the job in the spring of 1993.

Apart from replacing the existing hedge surrounding the garden with a more secure and soundproof wall, work will also entail enhancing the stonework around the perimeter of the pond, replacing and pruning plants and renovations to the tea garden.

Opened in 1960, the Nitobe Garden has been described as a textbook of traditional garden art, the finest of its kind outside Japan.

The refurbishment of the garden is part of a \$2.5-million commitment by Konwakai and Keidanren to the World of Opportunity Cam-



Prince and Princess Takamado of Japan inspect one of the many lanterns in the Nitobe Memorial Garden during the ground breaking ceremony for the \$1-million garden renovation.

paign. To date, the organizations have raised \$2-million toward that commitment, which will also lead to a new Centre for Japanese Re-

search, the first of five centres specializing in Asian affairs planned for UBC.

Konwakai's contributions to UBC were recognized at a gala dinner held in Vancouver, earlier this year. At the dinner, co-hosted by Konwakai and the Canada-Japan Society, 461 seats were sold.

Konwakai President Seikichi Koike, who is also Vice President and General Manager of Japan Airlines, said donations, including matching funds from the Government of British Columbia, will be allotted as follows:

- \$2 million endowment for two chairs in the Institute of Asian Research;
- \$1 million endowment for faculty exchanges, fellowships and library resources;
- \$1 million to construct a facility for a Centre for Japanese Research within the Institute of Asian Research;
- \$1 million for the renovation of Nitobe Garden.

"The Japanese Studies program has always been an integral part of UBC's Asian Studies program and continues to be one of the fastest growing in our curriculum," President David Strangway told the dinner guests.



(Pictured l to r) Konwakai Chairman Nobuo Kitsuda, Konwakai President Seikichi Koike, UBC President David Strangway, Premier Mike Harcourt, Lieutenant Governor Leim, Ambassador Michio Misoguchi, Canada-Japan Society President Jack McKeown, Consul General Yasuhide Hayashi, Konwakai Fund Raising Chairman Hiroyoshi Tsuchiya.

Class Act assists students

Students graduating from the Faculties of Dentistry, Medicine and Pharmaceutical Sciences are showing their class spirit, by donating more than \$70,000 to UBC through a student campaign called CLASS ACT.

The project, established this spring, enables grads to make contributions which strengthen their faculties and benefit future students.

Through CLASS ACT, students choose projects which they feel best represent their faculty's needs. Classmates organize the campaigns and approach their fellow grads for contributions.

The Faculty of Pharmaceutical Sciences Class of '92 has given its overwhelming support to the project, with a phenomenal 83 per cent participation rate. In total, the class is contributing more than \$46,000, including government matching funds, toward a bursary for pharmacy students in need of financial aid.

Grads from the Faculty of Medicine

raised \$15,000 in donations to go to the Medical Student's Alumni Centre, which will provide a meeting place for UBC grads near Vancouver

General Hospital; and to the Medical Outreach Elective (MORE) program, which will give medical students an opportunity to study abroad.

The graduating class from the Faculty of Dentistry is establishing a bursary for needy students and is contributing to renovations to the students' lounge.

With the success of the pilot

project in these three faculties, the program will be expanded next year to include graduating classes in other disciplines.



Pharmacy grad class campaign team.

- Mrs. Violet E. Eagles
- Robin Endres
- The B.I. Ghert Family Foundation
- Yoshihisa Imajo
- Imasco Limited
- Janet W. Ketcham & West Fraser Timber Co. Ltd.
- Cy & Emerald Keyes Charitable Foundation
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- Michael M. Koerner*
- Labatt Breweries of British Columbia
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\$100,000 to \$249,999 including matching funds

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Other Gifts

Generous support has also been received from the community and alumni, including the UBC Campaign Leadership Committee and Advisory Council, Campus Leadership, and The Westbrook Society.

*Gift-in-kind, or partial gift-in-kind

Campaign news highlights

Canada's Communications Minister Perrin Beatty was in Vancouver recently to present UBC benefactor Walter Koerner with the National Lescaud Award trophy. Koerner was one of the first two recipients of the award which recognizes "outstanding and sustained contribution to the Canadian cultural sector."

Koerner has supported the Museum of Anthropology since its inception 45 years ago. Last year, he donated a 600-piece collection of European ceramics, valued at \$3-million, to the museum through the World of Opportunity Campaign.

UBC and St. Paul's Hospital have created a leading national and international research program in AIDS.

The Chair in AIDS is the first of its kind in Canada. It will enable UBC to recruit a leading scientist who will pioneer research into the disease, and contribute to the education of other professionals working in the field. The Chair has been established through major funding by the St. Paul's Hospital Foundation and Petro Canada Inc.



(l to r) Thomas Brown, Dorothy Farris, Agnes Peterson, Gerald McGavin

Canada's Minister of Multiculturalism and Citizenship, Gerry Weiner, paid a recent visit to UBC to discuss the David Lam Chair in Multicultural Education.

The Chair, funded in part by Weiner's ministry, will be established in the Faculty of Education and will focus on interracial education in Canadian public schools.

A ribbon-cutting ceremony at the site of the new \$18-million Centre for Integrated Computer Systems Research (CICSR)/Computer Sciences building celebrated UBC's collaboration with the province's burgeoning high technology industry.

The new facility, fully funded by the Government of British Columbia, will house interdisciplinary work in fields such as computer imaging and animation, robotics research for industrial application and the development of artificial intelligence.

A room in the new building will be dedicated to World of Opportunity Campaign donor the British Columbia Telephone Co. in recognition of the company's long-term commitment to supporting research and advancement in the fields of telecommunications and high technology.

Students and faculty alike are benefiting from new equipment purchased for the Dept. of Mining and Mineral Process Engineering with a donation made by the Cy and Emerald Keyes Foundation.

The foundation contributed more than \$185,000 for analytical equipment and an advanced computing laboratory for the department.



Federal Communications Minister Perrin Beatty (left) and UBC benefactor Walter Koerner

Donors to UBC were served a musical treat on April 1, when they attended the UBC Symphony Orchestra and University Singers at the Orpheum.

The performance of Carl Orff's *Carmina Burana* was the School of Music's major performance of the year.

One of the projects in the World of Opportunity Campaign is the funding of musical instruments. The School of Music has outlined a number of needs, including pianos; wind, brass and percussion instruments; historical and ethnic instruments; electronic instruments; recording and playback devices; and performance equipment.

Merck Frosst Canada Inc., Canada's largest research-based pharmaceutical company, has awarded UBC with a \$125,000 Merck Frosst Doctor of Pharmacy Fellowship (Pharm.D. Program) and a \$125,000 commitment toward the Merck Frosst National Entrance Scholarship in the Faculties of Science and Applied Science.

The Merck Frosst National Entrance Scholarship will be established with a \$25,000 contribution per year from Merck over the next five years. The end result will be the establishment of an endowment awarding five annual \$3,000 scholarships, in perpetuity, to undergraduate students in Sciences and Applied Sciences.



(l to r) Dr. Kogila Adam-Moodley, Multiculturalism and Citizenship Minister Gerry Weiner, Faculty of Education Dean Nancy Sheehan, President David Strangway, Vice President Daniel Birch



The UBC Campaign News

UBC Development Office

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Debora Sweeney

Contributors:

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Rosemary Ogilvie

Production/Design:

William Jamieson

First Campaign building opens

Continued from page 1

Canada Ltd., the Hongkong Bank of Canada and the Hongkong and Shanghai Banking Corp. Ltd., and an anonymous donor.

Lam said the new building is "a bridge between town and gown" that will build links

with the business community through lectures, seminars, displays, receptions and continuing education program.

The 6,243-square-metre structure will house offices of several management research bureaus, an executive conference centre, the university's

first specialized graduate placement service centre, where employers can recruit students from the faculty, Trekkers restaurant and the Express snack bar.

A centrepiece of the building is the David Lam Management Research Li-

brary. Housed in a temporary location since its founding in 1985, the library features a comprehensive collection of Asia Pacific business materials, as well as B.C.'s largest collection of annual reports and hundreds of management journals.

Group seeks animal research alternatives

News item: Edmonton, June 3 — A group claiming to be from the Animal Liberation Front wrecked a University of Alberta kennel Monday and stole 29 cats.

By GAVIN WILSON

Animal experimentation is an issue that can provoke extreme reactions.

But there is one Canadian animal rights group devoted to working with scientists, not against them, towards the abolition of animal experiments — and it deals exclusively with UBC researchers.

The Vancouver-based B.C. Foundation for Non-Animal Research funds and promotes alternative methods of research, such as tissue and cell culture and computer modelling.

Foundation trustee Rhodri Windsor-Liscombe, who is also a professor in UBC's Fine Arts Dept., says foundation members condemn the tactics of vandalism and intimidation employed by some in the animal rights movement.

"We do realize this is a complicated issue, but closing labs and setting animals free is not a solution," he said. "The answer is to get more and more scientists using various alternatives.

"We must find some serious solutions that address the needs of scientists and provide a real long-term alternative to vivisection."

Founded in 1970 by the late Evelyn Martin, a registered nurse, the foundation grew out of discussions she had with Dr. Jack McCreary, then UBC's dean of Medicine and Health Sciences co-ordinator.

Most of its members are UBC alumni — such as long-time trustee Juliet Werts and treasurer Breck Milton — or are otherwise connected to the university.

In common with other animal rights groups, foundation members believe that many animal experiments involve needless repetition and that animals are not effective models for drug testing because their physiology differs from humans. Liscombe says his opposition is based on "moral and intellectual grounds."

The foundation offers support to researchers investigating substitutes for animal testing, gives one-time grants for the purchase of equipment, and sponsors the \$5,000 Evelyn Martin fellowship, presented to a student

exploring the use of cell and tissue culture in preventative cancer research.

Cancer research is the focus of the foundation's support. Its high profile makes it "the best place to begin," Liscombe said.

"If these different methods are accepted in cancer research, then it will make it much easier to be accepted elsewhere."

Liscombe believes researchers will drop animal experimentation once the alternatives are proven to be economically and scientifically viable.

"I think most scientists would agree that animal research is expensive, laborious, often poses ethical problems, and doesn't always give good results," he said. "It's like trying to use a Ford manual to do tests on a Chevy."

Cell and tissue culture holds the greatest promise as a substitute for animal experiments, many researchers agree.

Using this process, living human cells can be grown in the laboratory. Fed a mix of nutrients and protected from infection with antibiotics, the cells will grow and multiply, often indefinitely.

One UBC researcher, whose work in cell and tissue culture is supported by the foundation, is Nellie Auersperg, a professor in the Dept. of Anatomy.

Her lab was among the first to produce human cancer cell lines with special properties, one of which is now used in a blood test to detect ovarian cancer.

But she admits that there are still limitations to cell and tissue culture, limitations her laboratory is trying to overcome.

Part of the problem is getting enough living cells from healthy human ovaries. Auersperg now collects such tissue from Vancouver-area hospitals.

Once cultured, human cells grow slowly. Derived from different individuals, they also lack the genetic uniformity of inbred laboratory rats, making it more difficult to get consistent results.

Also conducting foundation-backed research on cell and tissue culture is Douglas Kilburn, a pro-



Photo by Gavin Wilson

Anatomy Professor Nellie Auersperg and graduate student Helen Dyck perform experiments on human tissue cultures grown in laboratory.

essor at the Biotechnology Laboratory and the Dept. of Microbiology.

He uses cell and tissue culture instead of mice for the production of monoclonal antibodies, used for the detection and treatment of cancer.

"What we learn from culturing cells allows us to design systems that use cells, instead of animals, to test drugs or produce pharmaceuticals," said Kilburn.

Dan Lee, a graduate student in Kilburn's lab, has developed two new matrices on which cell cultures can grow: a ceramic block matrix and a porous polystyrene matrix with a chemically-treated surface. The latter could be used for the large-scale production of cells.

Using current technologies, cell and tissue cultures produce two million cells per millilitre of culture liquid. But Lee has produced cultures with 200 million cells per millilitre, a hundred-fold increase.

"That is approaching the density of real tissue, which makes it economical for production purposes and a better model to replace animals," said Kilburn.

Another researcher who has benefited from a long association with the foundation is Hans Stich, former head of the Environmental Carcinogenesis of the B.C. Cancer Research Institute



Human tissue cells growing in laboratories may provide alternatives to animals for testing effects of substances.

and a professor emeritus in the Dept. of Zoology.

Stich developed an extremely accurate cancer-screening system that combines cell and tissue culture with computer imaging.

He feels that computer modelling is a very promising direction for diagnostic techniques that now use animals, especially for the detection of oral cancer, but also for cancer of the lung and cervix.

"There is great potential. I'm absolutely convinced that the future is there," he said.

Liscombe believes that another way of reducing animal experimentation may lie in the growing accept-

ance of voluntary human testing.

Once a taboo subject, Liscombe sees changing attitudes in the increasing willingness of many people to donate their vital organs for research and transplants.

As well, many terminally ill people are demanding access to experimental drugs — such as AZT, used to treat HIV infection — despite the risk of unknown side-effects.

Society's changing attitudes are also reflected in research laboratories, where the ethics of animal experimentation were once unquestioned.

However, researchers agree that the search for effective alternatives is only just beginning.

Graduate program in rehab medicine approved for 1993

By CONNIE FILLETTI

A graduate program in Rehabilitation Medicine has been approved by the Board of Governors.

Beginning in September 1993, the program will lead to a Master of Science degree and offer advanced study in rehabilitation theory and practice. It is designed to prepare students to conduct clinical research independently and in collaboration with scientists from other disciplines.

Rehabilitation Medicine includes the disciplines of occupa-

tional therapy and physical therapy.

"The degree program is long overdue in British Columbia, since most other provinces have had similar programs for many years," said Dr. Charles Christiansen, director of UBC's School of Rehabilitation Medicine.

"It is especially timely since the need for researchers to identify new approaches to important rehabilitation problems and determine the effectiveness of current services is urgent."

A prime goal of the program will be to provide an educational

climate that promotes scientific thinking and enables students to further develop the skills of scientific inquiry through participation in rigorous research activities, he added.

Students seeking admission to the program must have a bachelor's degree in occupational therapy, physical therapy or a related health discipline. At least one year of clinical experience in rehabilitation is also required.

Students may enrol on a part- or full-time basis. For more information, call 822-7771.

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UBCREC wins productivity award

By ABE HEFTER

UBC has captured third place in the 1991 Canadian University Productivity Awards program for the creation and use of the UBC Real Estate Corporation.

The principal project to date has been Hampton Place, situated at 16th Avenue and Wesbrook Mall, which offers condominium apartments and townhouses as well as several hundred rental apartments.

The awards program is sponsored by the Royal Bank of Canada, Xerox Canada Ltd., Power Corporation of Canada and the Canadian Association of University Business Officers.

Fifteen Canadian universities entered a total of 32 submissions. They are revenue-generating ideas and cost-saving techniques for projects which are often intended to improve the quality and effectiveness of university support services.

The University of Ottawa captured first place, followed by York University.

"The UBC Real Estate Corporation, which was established in 1988, has generated new capital of more than \$20 million to date on the Hampton Place project on the university

campus," said corporation President Mark Betteridge.

"Once completed, the project will see a steady revenue stream of more than \$3 million per year, plus inflation, being returned to UBC through ownership of rental apartments."

As a separate project, the UBC Real Estate Corporation recently constructed 115 units of rental apartments on campus for incoming junior tenure track faculty and staff—Acadia House and Sopron House—and is planning a second project of 147 units.

"This initial project required no cash from the university and the revenues cover all operating and debt servicing costs," said Betteridge.

"This was achieved by allowing the corporation to utilize private market management practices to the benefit of the university."

The corporation is currently under contract to manage the research and development parks at UBC, Simon Fraser University and adjacent to the British Columbia Institute of Technology.

More than 100 universities and colleges across North America operate similar ventures and co-ordinate their efforts through the Association of University Real Estate Officials.



The Hampton Place housing project was developed by the UBC Real Estate Corporation, recently applauded in the Canadian University Productivity Awards program.

Leprosy drug may lessen effects of Alzheimer's

By CONNIE FILLETTI

A drug commonly used to treat leprosy may reduce the incidence of dementia caused by Alzheimer's disease, says a UBC neuroscientist.

Dr. Patrick McGeer has found that elderly leprosy patients being treated with dapsone—an antibacterial drug widely used against all forms of leprosy—have less chance of developing dementia than leprosy patients who have been off the drug for at least five years.

"One way to explore whether existing drugs might be of therapeutic benefit in dementia would be to survey people on long-term drug treatment for other diseases to determine whether any reduction occurs," he said.

McGeer and colleagues Dr. Nabuo Harada and Dr. Hiro Kimura surveyed 3,792 leprosy patients, 65 years of age and older, in Japan's 13 national and three private leprosy hospitals.

"Japanese leprosy patients live in isolated communities, under close medical supervision, and therefore it is possible to compare drug-free and drug-treated patients under highly comparable conditions," said McGeer.

Patients were categorized according to age range and whether their treatment with dapsone, or one of its

derivatives, had been continuous, intermittent or discontinued over the past five years.

The prevalence of dementia in patients over 65 who had received anti-leprosy drugs continuously was 2.9 per cent. The figure rose to more than four per cent in the intermittently treated group, and to 6.25 per cent among the patients who were untreated for at least five years.

"We do not know why this difference occurred," McGeer said. "But it is a good bet that Alzheimer's disease was the overwhelming cause of the dementia, and that dapsone was responsible for the reduction. It will be interesting to see if it can slow the progression of Alzheimer's disease."

McGeer's study recently appeared in the international medical journal, *Dementia*. Co-authors, in addition to Harada and Kimura, were neuroscientist Dr. Edith McGeer and statistician Michael Schulzer, both of UBC.



McGeer

Student housing project expanded

By GAVIN WILSON

Plans for two new campus housing projects have moved a little closer to reality.

The \$31-million Thunderbird student housing project has been expanded and will now include 366 units housing 600 students, said Mary Risebrough, director of Housing and Conferences.

Risebrough told a recent meeting of the Board of Governors that the project includes shared townhouses, shared two-bedroom apartments and private one-bedroom and studio apartments.

Located on an L-shaped site along Thunderbird Blvd. between East and West malls, completion is slated for August, 1994.

Plans for the project were based on a demographic forecast which predicted the age groups and family status of the student body of the year 2000. It will house senior or graduate students, some with spouses.

Along with planned residences at Green College, the Thunderbird project will bring UBC to its stated goal of providing housing for 25 per cent of the student population, Risebrough said.

Housing for an additional 1,400 students has been added at UBC since 1985, but waiting lists have continued to grow due to the high cost of housing in the city and the popularity of living on campus.

The board gave approval to go to

the detailed design phase of the project.

The board also received an update on plans for the second phase of faculty housing from Mark Betteridge, president of the UBC Real Estate Corp.

This project will consist of two four-storey buildings located between Wesbrook Mall and Osoyoos Crescent.

The \$9.7-million project will have about 140 units. They could be ready for occupancy by August, 1993. The first phase of faculty housing, on Acadia Rd., is already occupied.

The second phase has yet to receive financing approval from the Ministry of Advanced Education, Training and Technology.

Interrelated sciences combined under earth and ocean program

By GAVIN WILSON

An increasing trend of seeing the earth's natural systems as interrelated has led to a new program in the Faculty of Science—Earth and Ocean Sciences.

The program will bring together the resources of departments already involved in the study of earth sciences: Geological Sciences, Oceanography, and Geophysics and Astronomy.

It will foster interdisciplinary teaching and research to deal with the interrelated problems in all aspects of earth sciences, including global environmental change, said Paul LeBlond, the director of the new program and former head of the Dept. of Oceanography.

The program will complement undergraduate and graduate programs in existing departments and stimulate interest in joint programs and research, he said.

The creation of the Earth and Ocean Sciences program is part of an academic trend evident at universities around the world as the interconnected model gains acceptance as the new way of seeing the earth.

This belief is found not only in the scientific literature but in also in concepts such as the Gaia hypothesis, which views the earth as virtually a single living organism, said LeBlond.

"The time is right to do this," he said. "My responsibility as director is to draw on people from the three departments, with consultation and advice from the Dept. of Geography, especially with those in the Atmospheric Sciences Program."

LeBlond pointed out that research that fits into the new program is already underway at the university. For example, the Joint Global Ocean Flux study, headed by Oceanogra-

phy Professor Stephen Calvert, looks at the role of oceans in transferring carbon dioxide to and from the atmosphere, a topic which involves the study of climate, biology and oceanography.

LeBlond said he plans to bring new courses and programs for consideration to curriculum committees this fall, for inclusion in the calendar in 1994-95.

Also planned are a seminar series and a symposium in the fall of 1992. The program may also lead to more cross-appointments between participating departments.

"There already exists extraordinary strength in earth sciences at UBC," said LeBlond. "With the enthusiastic participation of my colleagues, this program will bridge the various specialties and link global and regional studies in earth sciences."

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People

Wada named Officer of Order of Canada

UBC neurologist Dr. **Juhn Wada** has been named an Officer of the Order of Canada.

Wada, who joined UBC in 1956, was honored for his pioneering research and surgical treatment of epilepsy.

He received his medical training at Hokkaido University in Japan before continuing with specialty studies in neurology at the University of Minnesota and the Montreal Neurological Institute.

Wada is the founding president of the Canadian League Against Epilepsy and has served as president of the World Epilepsy Congress. He is past president of the American Epilepsy Society and the American Electroencephalographic Society.

Currently, he is convenor of the 1993 International Congress of Electroencephalography and Clinical Neurophysiology to be held in Vancouver.

Taanta Gupta has been appointed executive director of the Rick Hansen National Fellow Programme.



Gupta

Gupta joins the program with extensive project development experience in the communications industry, including positions with Rogers Broadcasting, the Hong Kong Bank of Canada and Satellite Radio Network.

In her new position at UBC, Gupta will oversee

all projects and initiatives of the program, which is based in the Disability Resource Centre.

The program, endowed by the federal and provincial governments, promotes better understanding of and solutions to the long-standing problems that affect people with disabilities in Canada and abroad.

Beverly Trifonidis, associate dean, professional programs in the Faculty of Commerce and Business Administration, has been appointed to the board of directors of the Banff School of Advanced Management.

Trifonidis joins Commerce Dean Michael Goldberg as a UBC representative on the board. Trifonidis' appointment is effective through Dec. 31, 1993.

The goal of the Banff School of Advanced Management is to prepare executives for leadership in organizations anticipating society's future needs and expectations.

The school's program is collectively designed and supported by leading western Canadian universities and offers a unique six-week learning experience in Banff, Alberta.

UBC President **David Strangway** has been appointed to Royal Trust's Vancouver advisory board.

The board, which meets about eight times a year, consists of community and business leaders who are called upon to provide advice on business issues that affect the Lower Mainland.

Royal Trustco Limited, founded in 1899, is Canada's largest trust company and the only

Canadian trust company with a network of international operations.

Royal Trust operates 144 branches across Canada, providing a wide range of financial products, services and advice.

Susan Harris, acting head of the Division of Physical Therapy in the School of Rehabilitation Medicine, has been honored by the American Physical Therapy Association.

Harris received the Marian Williams Award for Research in Physical Therapy at the association's 68th annual conference held recently in Denver, Colo. The award, established in 1965, honors physical therapists who present sustained and outstanding scientific studies pertaining to physical therapy.

A graduate of the University of Washington, Harris joined UBC in August, 1990. She specializes in early diagnosis of cerebral palsy in high-risk infants.

Two members of UBC's Faculty of Medicine are among the country's first group of medical geneticists to be certified by the Royal College of Physicians and Surgeons of Canada (RCPSC) as specialists in their field.

Dr. **Judith Hall**, head of the Dept. of Paediatrics, and Dr. **Margot Van Allen**, a clinical associate professor of Medical Genetics, passed examinations recently conducted by the RCPSC to qualify for admission to fellowship in the college. In total, 12 physicians from across Canada received this distinction.

A leading researcher in cross-cultural health care is the new director of UBC's Multicultural Liaison Office.

Joan Anderson, a National Health Research Scholar and professor in the School of Nursing, begins her one-year term Sept. 1.



Anderson

Anderson is a specialist in the field of cross-cultural health care and chronic illness management. Her research helps health care workers better understand and assess individuals from other cultures.

She is the co-editor of *Cross-Cultural Caring: A Handbook for Health Professionals in Western Canada*.

Kenneth Bagshaw has been reappointed to a one-year term as chair of the university's Board of Governors.

Bagshaw was appointed as a member of the board for a three-year term by a provincial order-in-council in 1987. He was reappointed to a second three-year term as a member of the board in 1990, and has served as chair since April of that year. His latest term as chair runs until Aug. 31, 1993.

Bagshaw, a partner with the Vancouver law firm Ladner Downs, graduated from UBC's Faculty of Law in 1964.

Job prospects good for forestry graduates, faculty survey suggests

By **ABE HEFTER**

Employment prospects for graduates of the UBC Faculty of Forestry are on the rise, according to the results of the faculty's annual survey of graduating students.

"Recent reports suggest that college and university graduates are having difficulty finding jobs. These reports do not seem to hold true for graduates of the UBC Faculty of Forestry," said Dean Clark Binkley.

This year, 95 per cent of the 22 graduating students who responded to the survey found employment by the time they had graduated. The jobs were almost split down the middle between permanent positions and seasonal or contract employment.

A total of 43 students graduated this spring.

"Each fall we also survey the graduates from the previous spring and winter," said Binkley.

"Our most recent survey indicates that all of the 1991 graduates were either employed or pursuing advanced degrees. Of those employed, more than 82 per cent held professional forestry positions and the rest held technical positions in forestry."

Binkley said the faculty's surveys show a steady increase in employment for foresters since 1986.

Rising from a low of 80 per cent that year, more than 90 per cent of UBC Forestry graduates were employed or studying for advanced degrees in the past four years.

The faculty offers a four-year degree program in the areas of forest resource management, forest harvesting, natural resources conservation, forest science and wood science and industry. Undergraduate registration for the 1991-92 session totalled 285 students.

Binkley said graduates obtain positions in a wide variety of resource management organizations, including the provincial and federal ministries of forests and environment, private companies, educational institutions and consulting firms.

"Although job prospects for foresters have brightened, we see some significant challenges ahead," said Binkley.

"We need to ensure that this year's good performance in job placement continues next year. We need to diversify the employment base for UBC Forestry graduates. And we need to place more first and second year students in meaningful, forestry-related summer jobs."

Binkley said to help accomplish these objectives, the faculty is organizing a career fair for this fall.

Aging boomers likely to fight for legal interests

By **CHARLES KER**

Early in the next century, close to a quarter of Canada's population will be 65 or older.

Far from frail and complacent, these aging baby-boomers will also be a vocal group which will expect the law to protect their interests.

"When boomers were kids, there was an explosive growth in juvenile delinquency that was the result of demographic change," said UBC Law professor Donald MacDougall.

"Twenty years from now, their impact on society will be more permanent and they will seek to change the law to make it less of a barrier."

In anticipation of this demographic shift, MacDougall plans to introduce a seminar on law and aging at the Faculty of Law in September. While there are some law schools in the U.S. which offer courses in this area, MacDougall says there are presently no such offerings in Canada.

Geared to second- and third-year law students, the seminar will cover topics such as access to legal services, age discrimination, powers of attorney and how to protect the physical security and financial interests of elderly people.

While he doubts that it will ever be a high-volume area of legal practice, MacDougall's goal is to create a small group of practitioners who are sensitive to and aware of problems faced by

seniors when they invoke the aid of the legal system.

According to MacDougall, there is a growing realization that the law provides inadequate protection to the interests of the elderly. He added that elder abuse, including physical and financial abuse and neglect, has long been hidden or denied by society.

MacDougall believes older people need better access to legal services rather than specialized legislation which would only serve to stigmatize them.

"When you get labelled as needing protection, people automatically assume you are incompetent," he said. "The truth is, most people over 65 are perfectly capable of looking after themselves."

MacDougall predicts that among the many changes brought about by

an increasingly aging population will be the abolition of mandatory retirement. He says this development is inevitable as seniors become more socially and politically active while public and private pension schemes become increasingly more burdened.

Two years ago, MacDougall and Professor James Thornton of the Faculty of Education co-wrote a six-part report called *Law and Legal Services for an Aging Population*.

The project focused on current law and legal practices, legal education curricula, legal obligations of advisors to the elderly and public legal education for and about the elderly.

MacDougall, who has been teaching child and family law at UBC since 1965, expects his law and aging seminar to attract about a dozen students in its first year.

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Doublespeak: A Tranquillizing Oratory

By PHILIP ALLINGHAM

As the headline suggests, doublespeak is not merely linguistic ineptitude, but a deliberate and devious deployment of words intended to camouflage, confuse, or obscure.

While doublespeak, taken from the Orwellian term "doublethink" in 1984, stops short of out-and-out lying, it is intended to tranquillize the hearer or reader. It is nothing less than verbal slight-of-hand.

South of the border, the phenomenon is so widespread that the National Council of Teachers of English (NCTE) puts out a journal devoted entirely to print and electronic media pronouncements by the American establishment.

Writing for the July 1991 issue of *Quarterly Review of Doublespeak*, William Lutz was able to cite examples of Pentagon doublespeak which refers to the Korean conflict as a 'police action' rather than a full-blown war.

Canadians had to hunt for themselves through the verbal bombardment on television and in the press. But when a high-ranking spokesman for the Canadian Armed Forces can speak of Saddam Hussein's stockpiles

of nerve and mustard gas as "military assets," we as a nation can feel that we need not take a media backseat to our southern neighbors' talk of "surgical strikes" and "smart bombs."

But why should public abuse of language be a concern of teachers of

phors, inflated language, weasel words, gobbledygook, jargon out of context, devious euphemism, deceptive titles, and so forth... As teachers of critical reading, we should help our students learn how to see through propaganda and doublespeak."

"As teachers of critical reading, we should help our students learn how to see through propaganda and doublespeak."

English in the United States and Canada, anyway? Between drugs and drop-outs, lesson-planning and essay-marking, don't they have enough to worry about?

Writing in the *English Quarterly* in 1986, when the Canadian Council of Teachers of English (CCTE) instituted its Public Doublespeak Task Force, Professor Rick Coe of Simon Fraser University, its first chair, gave this answer:

"We who study language and literature have a special expertise. The devices abused by doublespeakers are rhetorical figures: misleading meta-

The CCTE instituted awards for Plain English and Public Doublespeak not so much to bring itself to the attention of the Canadian media as to encourage the honest use of spoken and written English and to reveal official attempts — whether by business or government — to seduce Canadians into believing that bad is good, that cruelty is justice, that parsimony is sound fiscal management, and that the vested interest is the common good.

Through the exposure of doublespeak, teachers of English in Canada have attempted to radicalize their students, making them more critical and reflective readers who will help transform Canada into a more self-aware, more open, and more democratic society.

Since my appointment as chair of the Doublespeak Task Force, nominations for the doublespeak award have included Colonels Engstad and Pepin of the Canadian Armed Forces for their camouflaging 'language of war'; former Socred Provincial Secretary

Bill Reid ("If it is outside the guidelines, then it was irregular, but that's not unusual"); and a B.C. Ministry of Education official who eschewed the word teachers in favor of "on-site facilitators of pupil learning."

The 1990-91 winner was Jackie Minogue of Revenue Canada, who attempted to explain the GST by using peanuts as an example.

"It (GST) will tax items like peanuts as snack foods at a seven-per-cent rate, except unsalted peanuts which would be taxed at zero-per-cent as a basic grocery because they could be used in cooking."

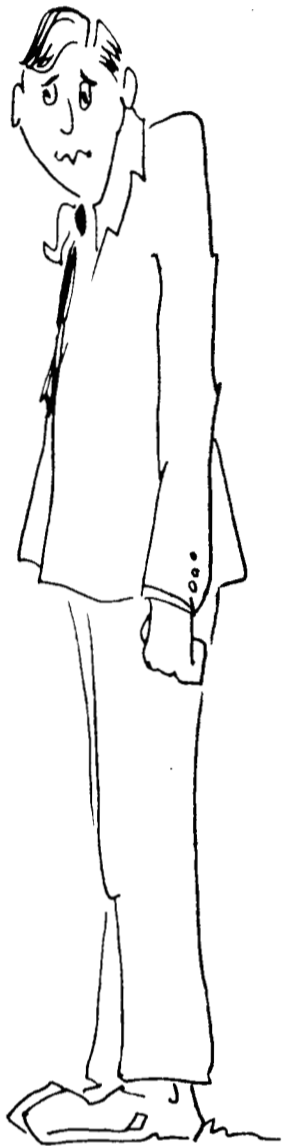
This year's winner, nominated by national newspaper columnist Don McGillivray, was the Fraser Institute for its coercing the CBC to eliminate bias in its coverage of 'labor disruptions' (strikes?) by employing the term "replacement workers" instead of "scabs."

"This is the authentic voice of political correctness," observed McGillivray. "People who use our preferred words are fair and balanced. People who use the other side's words are unfair and unbalanced."

Although the CCTE's Task Force on National Public Doublespeak is gone, the phenomenon it sought to combat will undoubtedly continue to flourish under government and corporate sponsorship.

Philip Allingham is a UBC professor of English and former chair of the Canadian Council of Teachers of English Doublespeak Task Force.

Illustrations by Diana Cooper.



Study unmask rhetoric of election campaign

By CHARLES KER

There are generally two types of polls that emerge during a federal election campaign: commercial polls for profit and those crafted for political gain.

Richard Johnston's survey doesn't fit either category and promises the "truest account" of the coming election proceedings.

"Political campaigns are about manipulation," said the UBC political science professor. "We're trying to fine-tune an instrument which will allow us to get behind this manipulation."

As principal investigator for a \$540,000 federal election study, Johnston will use a computer-assisted telephone survey to determine how voters are influenced during the course of a campaign.

The wide-ranging survey will include questions on Canada's social structure, attitudes towards the U.S., the union movement, the size of government and specific party policy.

By analysing the response of participants, Johnston hopes to get a sense of what issues affect the vote, the effect of media use during the campaign, an evaluation of the leaders, expectations of a party's chances of success, and voter intentions.

By varying the order and wording of questions, the survey will also try to

capture the impact of campaign rhetoric.

For this, Johnston and his five-member research team will carefully monitor the media to pick out words and phrases party strategists use in trying to frame the campaign in voter's minds. Part of this process will involve a daily content analysis of prime-time television news coverage as well as an analysis of party advertising during the campaign.

In the case of special campaign events such as debates, the team's computer program will automatically add questions concerning the event to the questionnaire after it takes place.

The research project will be the eighth such study funded by the Social Sciences and Humanities Research Council since 1965.

Johnston, who headed up the 1988 survey, said the primary purpose of these studies is to record an important part of Canadian political history the data from which is made available to election researchers worldwide.

Once the campaign starts, the Institute for Social Research at York University will conduct between 70 and 80 telephone conversations each day for the duration of the seven-week campaign. Using a carefully crafted questionnaire, Johnston hopes to draw responses from 3,600 Canadians who will each be interviewed for 40 minutes.

While pollsters may talk to more Canadians during the campaign, none will talk to respondents for as long or be as consistent in their questioning. Once the election starts, the election study questionnaire will not be changed.

Said Johnston: "If we see a change in the structure of response, we want to be able to say that the change was produced by the campaign and not by us."

Johnston said people who participate in the study get a sense that their opinions are taken seriously and not

being exploited for some other purpose.

"We provide them with an occasion they would not otherwise have," he said. "For most of these people, this will be the most engaging political conversation of their life."

Participants will be called again immediately after the campaign ends for a follow-up interview lasting 20 minutes. They will also be asked to complete a written questionnaire of issues not covered by telephone and mail it back to the research team.

Together, analysis of data drawn

from the interviews and questionnaires should give a good idea of how things such as media and poll results influence voters' perceptions of leaders and parties.

Johnston added that information gathered from the coming election will eventually filter down to the taxpayers and make them more aware of vote-getting tactics used in campaigns.

Johnston has co-authored a book, *Letting the People Decide: Dynamics of a Canadian Election*, which is based on the 1988 election study and due out in September.

\$1-billion program

Dorcey to head Fraser cleanup

Anthony Dorcey, assistant director of the Westwater Research Centre, has been chosen by the federal, provincial and local governments to head a \$1-billion program under a new agreement to clean up the Fraser River.

On behalf of the governments, Tom Siddon, federal minister of Indian Affairs and Northern Development, named Dorcey chair of the Fraser Basin Management Board while announcing the program's start-up at a signing ceremony in May.

The Fraser Basin Management Program is a long-term, comprehensive sustainable development program supported by Ottawa, Victoria and local governments. Dorcey will head the 19-member board that will oversee the program.

Its initial focus will be cleaning up and preventing pollution, restoring productivity of the natural environment, boosting salmon stocks and monitoring and reporting on the state of the river.

The program is, however, unique in that it will consider air, land and water resources; pursue environmental, economic and social objectives; and involve non-governmental stakeholders in decision-making through the board and new institutional arrangements in the basin's sub-regions.

Dorcey recently headed a major Westwater project which resulted in a report, book and video on the sustainable development of the Fraser Basin.