

UBC



The University of British Columbia
Vancouver, British Columbia

Volume 38, Number 10
June 18, 1992

Faculty named to Royal Society

By GAVIN WILSON

Four UBC faculty members are among 57 new fellows inducted into the Royal Society of Canada.

They are: James Allan Evans, Dept. of Classics, Vinod Modi, Dept. of Mechanical Engineering, Stephen Calvert, Dept. of Oceanography, and James Hogg, Dept. of Pathology.

The Royal Society, with more than 1,300 members, is Canada's most distinguished learned society. It was founded in 1882 to promote learning and research in the arts and sciences.

Evans is one of Canada's leading experts in the study of ancient history, and the culture of the Greco-Roman and Byzantine worlds. The author of four major books and many articles, his work on the historians Procopius and Herodotus in particular has established him as a leading scholar.

Modi is known internationally for his outstanding contributions to satellite dynamics, aircraft design, industry. See SOCIETY on Page 2



Photo by Martin Dec

Royal Inspection

Prince and Princess Takamado of Japan, along with guide Josephine Bridge (right), stop to inspect one of the many lanterns in the Nitobe Memorial Garden during a recent walking tour. Their Imperial Highnesses were taking part in a ground-breaking ceremony for the \$1-million renovation of the garden due to start in October. The enhancement is linked to a planned new Centre for Japanese Research. See story, page 5.

Shad Valley earns Conference Board kudos

By ABE HEFTER

The Shad Valley program has won a national award for excellence in business/education partnerships from the Conference Board of Canada.

Shad Valley is a unique Canadian summer program that promotes science, technology and entrepreneurship for selected teenagers from across the country.

It is financed entirely by tuition fees and sponsoring organizations, some of whom provide employment as part of the sponsorship.

The Shad Valley program was cited for its degree of innovation and effectiveness, the amount of positive change introduced by the partnership, and the contribution of the partnership to last-

ing relationships between education and business.

"Shad Valley has been called the finest program of its type in Canada," said Ron Foreman, an associate professor in the Botany Dept. and director of Shad Valley UBC.

"What this award does is acknowledge that."

Shad Valley was created in 1981 by the Canadian Centre for Creative Technology at the University of Waterloo. Since then, the program has graduated more than 2,500 students.

Foreman said sponsors are involved at all levels of the program, from offering labs and seminars to contributing faculty, guest speakers and judges for student projects. They also assist in the promotion and expansion of the program.

UBC's contribution includes access to virtually all facilities including scientific labs, meeting space, computing facilities and volunteered faculty and staff time.

"The university administration, along with the deans of Science and

Applied Science, have been instrumental in ensuring the success of this program at UBC," said Foreman.

Stuart Smith, the former chairman of the Science Council of Canada, says Shad Valley is without peer in the western world.

"I, for one, feel much more confident about Canada's prospects now that I see governments, industries and educators taking seriously the central role of technology," said Smith.

"The Shad Valley program is a See SHAD on Page 2

Inside

LONG ON SERVICE: Years of service to UBC find recognition in the 25-Year Club. *Around & About, page 3*

CAMP GOODTIMES: A summer camp for children with cancer helps otherwise normal kids cope with stresses of their disease. *Page 6*

DROPPING OUT: An Education prof examines many of the myths surrounding school dropouts. *Page 8*

.....

PULL-OUT SECTIONS: The Draft Policies and Procedures on Conflict of Interest and the Case Statement for the World of Opportunity Campaign are presented in two pull-out sections.

Future fuzzy for computers

By GAVIN WILSON

The future is fuzzy. Fuzzy logic, that is.

The new technology that gives computers the ability to reason like humans is set to transform our world — from everyday consumer products to industrial processes, some of which are being developed at UBC.

Conventional computers use binary logic which operates in terms of black and white, with no shades of grey in between. They falter when it comes to dealing with concepts that are relative, subjective or vague, such

as fast, slow, better and tall.

Fuzzy logic gives computers the ability to make intelligent decisions based on knowledge and experience, taking into account the imprecision and ambiguity of the real world and of human thinking.

Imagine owning these "smart" products:

— A fuzzy TV set that automatically increases its brightness as the room grows darker and increases the volume when the viewer moves farther from the set

— A fuzzy dishwasher that senses

how many dishes are loaded and how dirty they are, adjusting the soap, water and wash time accordingly

— A fuzzy toaster that adjusts the heat and toasting time depending on the type of bread and the user's previous preferences

— A fuzzy video camera that automatically senses and compensates for the hand jitters of the operator.

If you live in Japan, all of these products are already available.

See FUZZY on Page 2

Faculty settle

Members of the Faculty Association have ratified a two-year agreement with the university.

It provides a 3.5 per cent general wage increase on July 1, 1991, and a one per cent general wage increase on April 1, 1992. There is no wage increase for 1992-93. The agreement also provides for career progress, merit anomaly and inequity awards, and improved maternity leave.

A full breakdown of the agreement will be detailed in the July 16 issue of UBC Reports.

Campaign targets eye care

By CONNIE FILLETTI

Eight-month-old Katelyn was born with retinoblastoma, a type of eye cancer which generally occurs in childhood.

Her mother has lost one eye to the disease and Katelyn's grandmother, who also developed retinoblastoma as a child, has lost her sight completely.

Katelyn has been receiving medical therapy on a regular basis. So far, the treatment is working. But without the eye care research that made early detection of the disease possible, she may have been facing blindness in order to save her life.

In support of the type of research that is helping Katelyn and so many others, UBC's Dept. of Ophthalmology has launched a \$3.2-million fund-raising campaign called Vision 20/21 Eye Care.

Partners in the joint project are the Eye Care Centre and the Ophthalmology departments of St. Paul's Hospital, University Hospital and Vancouver General Hospital. Contributions to the campaign will also go toward new treatment facilities and education programs.

"Most British Columbians are unaware that eye research is not funded by the B.C. medical plan," said John Pavlovich, executive director of the campaign.

"Only current care, such as doctors' visits, is covered. That's why we have no option but to fund raise for eye research, which is crucial, if we are to achieve the type of medical advancements that save lives or eyesight."

The campaign will help fund new centres for geriatric and paediatric ophthalmology, expansion of the basic research facility at the Eye Care Centre, a new centre for Ocular Immunology and a chair in Ophthalmology to be located at UBC.

The chair will be named in honor of Stephen Drance, former head of the university's Ophthalmology Dept. It is a project of UBC's A World of Opportunity fund-raising campaign.

More than \$1.5 million in pledges to Vision 20/21 Eye Care have been received to date, including a total of \$300,000 donated by UBC-affiliated ophthalmologists — the largest per capita pledge of any faculty in the university's history.



V I S I O N

2 0 / 2 1

E Y E C A R E



Photo by Martin Dec

Pharmaceutical Sciences Dean John McNeill (left) and former Dean Bernie Riedel prepare to tee off at the third annual pharmacy golf tournament named in Riedel's honor. The event was held June 1 and raised more than \$30,000 for the faculty's chair in pharmacy administration.

Shad students to converge on UBC

Continued from Page 1

a leader, indeed a pioneer in this respect and should command our recognition, pride and support."

The Shad Valley program brings together 10 staff members and approximately 50 students from grades 11 and 12 at each of the eight host universities.

Fifty-two teenagers will converge on UBC June 28th for their Shad Valley experience this year. For four weeks, they will participate in highly intensive hands-on laboratory work, seminars and projects while attending lectures in computing, entrepreneurship, mathematics, science and technology.

The workload spans 16 hours a day, seven days a week.

Students are also expected

to invent, design, build a prototype and develop a business plan for a product as part of the entrepreneurship activities. More than 100 enterprises have been established by Shad Valley grads, including Minotaur Software, which in turn became a sponsor.

Most Shad Valley graduates conclude the program with a five-week work session at various government and private-sector job postings.

Michael Mustard of West Vancouver summed up his 1991 Shad Valley experience this way:

"Shad Valley is a beginning. When you leave, whole areas of the future you never knew existed will be opened up before you."

"With the strength of it behind you, there is nothing you cannot accomplish."

Society honors scholars

Continued from Page 1

trial aerodynamics, alternative energy sources, and biomechanics. He has helped improve artificial heart valves and the accuracy of space probe trajectories and has contributed to space shuttle and space platform systems.

Calvert is Canada's pre-eminent marine geochemist and is known for his exceptional contributions to the study of chemical and mineralogical transformations of sediments following their deposition on the sea floor. His current work is focusing on the mode of formation and preservation of organic-rich sediments and on the global oceanic carbon cycle.

Hogg is one of the world's leading lung pathologists. His work has been cited more than 2,500 times since 1980. Among his many accomplishments, he was the first to determine the site of airway obstruction in chronic bronchitis and emphysema, pointing out the importance of small airway inflammation in this disease.

Pharmaceutical chair receives endowment

By CONNIE FILLETTI

The Faculty of Pharmaceutical Sciences has received a gift of \$500,000 from business leader Tong Louie toward the endowment of a chair in pharmacy administration.

Pharmacy administration, the study of legal, ethical, social and economic aspects of pharmacy, "is concerned with the evolving concept of pharmaceutical care and the role of pharmacists in our health care system," said John McNeill, dean of the Faculty of Pharmaceutical Sciences.

He said the chair is crucial to the further development of pharmacy administration at UBC.

"It will make this university a leader in pharmaceutical education, and assist in the necessary expansion of undergraduate and graduate education."

McNeill added that the chair will provide expertise needed for practitioners to upgrade their knowledge, as well as help inaugurate research leading to improved pharmaceutical serv-

ices to the public.

"Perhaps, in the long term, it will also assist in containing health care costs," he said.

Louie, chair and chief executive officer of H.Y. Louie Co. Ltd., graduated from UBC in 1938 with a degree in Agriculture. He is also chairman, president and chief executive officer of London Drugs Ltd., and vice-chairman and director of IGA Canada Ltd.

Louie was inducted into the Order of Canada in 1989 and received an honorary LLD from UBC the following year. He was appointed to a three-year term on UBC's Board of Governors in December, 1990.

The \$1-million chair was initiated in 1983 by Bernie Riedel, former dean of the faculty, and later became a project of UBC's A World of Opportunity fund-raising campaign.

Louie's \$500,000 donation will be matched by the provincial government.

Fuzzy logic finds application in salmon industry

Continued from Page 1

"Fuzzy is a household expression in Japan. It is used in TV commercials," said Clarence de Silva, a professor in UBC's Dept. of Mechanical Engineering. "Unfortunately, it is not as commonly known here."

De Silva believes that Canada should get on the fuzzy logic bandwagon to reap the economic benefits.

To help spur interest in this technology, he and BCIT's Maria Bojadziew are organizing the Second B.C. Workshop on Intelligent Control and Applications, to be held July 13-15.

"It's not all that difficult to add fuzzy logic to already existing machines and it doesn't require large amounts of capital. It's better to do it here than have it imported," he said.

The potential for further applications is endless, he adds. Last year alone, Japanese manufacturers filed more than 100 patent applications based on fuzzy logic theory.

Intelligent control can also be successfully adapted to a variety of large-

scale applications including robotics systems, process plants, manufacturing workcells, ground transportation systems and environmental control devices.

The Japanese have adopted fuzzy logic with such gusto that many people believe it is their invention, said de Silva, but it is not. The man who pioneered the concept is Lotfi Zadeh, who will speak at the conference.

Zadeh is the director of the Berkeley Initiative in Soft Computing at the Uni-



Photo by Gavin Wilson

Mechanical Engineering Professor Clarence de Silva and the "high tech iron butcher" that uses fuzzy logic to make fine adjustments to salmon processing equipment.

versity of California, Berkeley. He first published his theory of fuzzy sets and fuzzy logic in 1965, but it is only recently that this technology has been

widely accepted and implemented.

De Silva's work looks at how advanced technology such as vision, robotics and intelligent control can improve yield and make the Canadian fish processing industry more competitive.

Current methods of processing salmon results in about five per cent of the fish being wasted, a

total loss to the industry of about \$25 million each year. As de Silva points out, even a reduction in waste of one per cent would mean annual savings of

\$5 million.

His vision system uses a camera and a computer to instantly analyse the images of the fish as they race by on a conveyer belt at a rate of two per second.

Then, using a knowledge base of information about fish that de Silva and his students have built up, the intelligent control system determines the best place to cut. Robotics do the actual work, using special V-shaped cutters that minimize wasted fish meat.

This "high-tech iron butcher" has a hierarchical control system that uses fuzzy logic to monitor process conditions and make necessary adjustments.

De Silva is also one of the featured speakers at the conference, which will be held at the Sheraton Villa in Burnaby. The conference is sponsored by UBC, SFU, BCIT, Dean of Applied Science Axel Meisen, CICSIR Director Jim Varah, and the B.C. Advanced Systems Institute.

For more information, call Maria Bojadziew at the BCIT Technology Centre, 432-8761.

UBC profs coach academic Olympians

By GAVIN WILSON

A pair of UBC professors will help coach Canadian high school science teams at the International Chemistry and Physics Olympiads this summer.

The Olympiads are demanding academic competitions that bring together teams of students from around the world each year for more than a

week of labs, exams and social events.

Gordon Bates, an associate professor in the Dept. of Chemistry, will accompany the chemistry team to the international finals in Pittsburgh, Pa. and Washington, D.C., July 11-22. Christopher Waltham, an assistant professor in the Dept. of Physics, will go with the physics team to Helsinki, Finland, July 4-13.

A total of nine high school students — five in physics, four in chemistry — were chosen for the teams from the ranks of 40 students invited to the National Olympiad Finals held at UBC in May.

The chemistry team members are: James Baughan, Calgary; Roman Elinson, Thornhill, Ont.; Dileepan Joseph, Winnipeg; and Sean

Margison, Abbotsford.

The physics team members are: Adrian Dunn, Lakefield, Ont., Mark Hamilton, Port Coquitlam; Patrick Premont, Valleyfield, Que.; Paul Tupper, Vancouver; and Wei Yu, Ottawa.

Students in high schools across the country are involved in the Olympiads from September, when the UBC professors and others involved in re-

gional programs start sending them a series of tests and problems to work on.

The students also toured laboratories and other facilities while they were at UBC.

"We hope that this will not only keep them interested in science, but could encourage them to enrol in science at UBC," said Waltham.

Literary magazine ranked among best

Prism International, UBC's magazine of contemporary writing, is among select company.

The 33-year-old publication is on a distinguished list of 26 North American magazines recognized recently as those best reflecting current literary culture.

The Atlantic Monthly, Esquire, The New Yorker, Harper's Magazine and Playboy were among others cited by Writer's Digest as leaders in important and innovative fiction.

"Magazines that appear both here and in the Fiction 50 should be considered the best of the best," the editor of Writer's Digest wrote in the publication's June issue.

Started in 1959 by group of writers which included poet Earl Birney, Prism has published works by Margaret Laurence, Margaret Atwood, George Ryga, Tennessee Williams and Jorge Luis Borges.

Keith Maillard, Prism's advisory

editor, said the magazine continues to attract talented new authors, particularly in the spring during its annual fiction contest. Winning entries are featured in a special edition each year.

Maillard added that the magazine receives submissions of poetry, drama, fiction and creative non-fiction from countries throughout the English-speaking world. It also publishes works in translation.

"We try to live up to our international mandate," said Maillard. "But regardless of where the works originate, Prism attracts a uniformly excellent selection of literature."

Published four times a year at UBC's Dept. of Creative Writing, Prism is edited by graduate students and is funded through the department.

Prism was the only Canadian magazine to be included in the Writer's Digest list.



Photo by Martin Dec

Benefactor honored

Canada's Communications Minister Perrin Beatty (left) and UBC benefactor Walter Koerner examine the National Lescaobot Award trophy presented to Koerner earlier this month at UBC's Museum of Anthropology. 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 since its inception 45 years ago. His contributions include a masterpiece collection of Northwest Coast Indian art and a collection of European ceramics, one of the finest of its kind in North America.

Around & About

A Thousand Years of Service to UBC

By RON BURKE

"We are a community of scholars, of students, of teachers and of researchers. But we are also a community of unsung heroes. The support staff at this university is every bit as important to the educational process as the teachers, the students, the researchers and the administrators." President David Strangway, UBC Spring Congregation, May 26, 1992.

The University of B.C.'s 25-Year Club welcomed 43 new members to its ranks last month. Collectively, these new members represent 1,075 years of service to UBC. More than that, they represent much of the spirit and tradition of the university.

Most of these staff are probably not widely known on campus, but many of the names have a familiar ring, and three of the inductees are among the most famous of all UBC personalities.

In October, 1970, UBC President Walter Gage directed Col. John McLean, director of the Personnel Dept., to create a club for staff members with 25 years of uninterrupted service to the university. There were 15 charter members.

Now, 22 years later, the ranks have swelled to almost 300.

One of the new members feels a special bond with the university's alumni. Isabel Galbraith, supervisor of records in the Development Office, maintains the database of information on all UBC graduates.

"To me this hasn't been a job," Galbraith says. "It's been a love of keeping track of the alumni, knowing where they're going, what they're doing. We get information on marriages, careers; it's kind of their stories. Sometimes it's like having 100,000 children."

Someone who has seen both his unit and the campus's research capabilities grow tremendously is Richard Spratley, director of the Office of Research Services. From its founding as a two-person operation, Research Services has grown to an office of 10, in addition to spinning off the Industry Liaison Office.

Spratley says this corresponds directly with UBC's increasing emphasis on becoming a world-class research institution.

"Since I enrolled in first-year classes in 1956, I've watched the university grow from something very

small into a major research institution," he says. "It's really an exciting time to be at UBC."

Spratley's eyes really light up when he speaks of a tradition and a spirit sparked in him by his first-year math professor, Walter Gage — that of ensuring that a student's first year at UBC is a positive experience.

"Walter had a very strong influence on me," Spratley says. "He kept teaching first-year math all along. In addition to my work with Research Services, I still teach first-year Chemistry. I passionately believe that students are what universities are all about."

Three new members of the 25-Year Club rival Gage or any other UBC figure for fame and affection. While the names Anita Long, Doris Long and Delia Lynch may not spark instant recognition on campus, the words Bus Stop Ladies certainly do. To multiple generations of faculty, staff and students who dined at the old Bus Stop Cafeteria and were invariably and indiscriminately addressed as either "love" or "duck," memories of the beloved Bus Stop Ladies will always be among the most pleasant recollections of campus life. Whether you had

a term paper due the next day or had just ended a romance, the Bus Stop Ladies made the university a brighter, friendlier place.

Congratulations to all 43 new members of the 25-Year Club. You have enriched the university with your contributions.

New Members of the UBC 25-Year Club

The 1992 inductees are:

Douglas Van Camp, Campus Mail
Muriel Dyson, Dentistry
Isabel Galbraith, Dev. Office
Catherine Nesbitt, Elect. Engineering
Robert Seeley, Financial Services
Ricardo Daponte, Food Services
Anita Long, Food Services
Doris Long, Food Services
Delia Lynch, Food Services
Bryon Cranston, Geolog. Sciences
Marija Locki, Housing & Conf.
Els Mol, Human Resources
Janice Austin, Library
John Campbell, Library
Leonard Drakes, Mech. Engineering
Sheelagh Clements, Medicine
Horst Tump, Metals & Materials Eng.
Megan Dearly, Microbiology
Ronald Mercer, Occ. Health & Safety
David Ridout, Occ. Health & Safety
Arjoon Ramnarine, Oceanography

Hermann Bless, Physics
Manfred Heinrich, Physics
Margaret Dunne, Plant Operations
Manfred Laub, Plant Operations
Ron Lott, Plant Operations
James Maxwell, Plant Operations
Alfred Mueller, Plant Operations
Arthur Murtland, Plant Operations
Antonio Rebelo, Plant Operations
Margaret Rogers, Plant Operations
Hans Ruger, Plant Operations
Michael Streeter, Plant Operations
Vasilios (Bill) Tsonis, Plant Ops.
Leroy Scrubb, Plant Science
Danielle Wenkstem, Psychiatry
Brian Moorhead, Psychology
Frances Medley, Registrar's Office
Richard Spratley, Research Services
Maureen Douglas, Science
James Jamieson, Stud. Couns. & Res.
Madeleine Bicknell, Surgery
Carol Bird, University Comp. Serv.

Calendar

June 21 -
July 18


MONDAY, JUNE 22

Oceanography Seminar

Investigating Tropical Ocean-Atmosphere Coupling Using Observational Data: The Inverse Gill Problem. Myles Allen, Hooke Institute, Oxford U. BioSciences 1465 at 3:30pm. Call 822-2828.

FRIDAY, JUNE 26

Obstetrics/Gynaecology Grand Rounds

 Shaughnessy Hospital Gynaecology Morbidity And Mortality Review. Dr. John Booth/Dr. John Tomc. University Hospital, Shaughnessy Site D308 at 8am. Call 875-3108.

Paediatrics Grand Rounds

Surgical Care For Children In BC - Lessons From The Past - Designs For The Future. Prof. Phillip Ashmore, Surgical/Thoracic Surgery. G.F. Strong Auditorium at 9am. Call 875-2118.

Health Care/Epidemiology Rounds

New Approaches To Assessing Clinical Competence Of Physicians. Dr. Gordon Page, director, Education Sciences. James Mather 253 from 9-10am. Call 822-2772.

MONDAY, JUNE 29

Health Promotion Research Seminar

Health Promotion In Quebec: Why It Never Really Caught On. Prof. Michel O'Neill, School of Nursing; co-director, Groupe de Recherche et d'Intervention en Promotion de la Sante (GRIPSUL), Laval U., Quebec. IRC #3 from 4-5:30pm. Admission free. Call 822-2258.

Regent College Evening Public Lecture

Theological Priorities For Eastern Europe In Days Of Upheaval. Dr. Carl E. Armerding, prof. of Old Testament, Regent College and Schloss Mittersill, Austria. College Main Floor Auditorium from 8-8:50pm. Discussion follows. Admission free. Call 224-3245.

UBC Reports is the faculty and staff newspaper of the University of British Columbia. It is published monthly in the summer months of June, July and August by the UBC Community Relations Office, 6328 Memorial Rd., Vancouver, B.C., V6T 1Z2. Telephone 822-3131. Advertising inquiries: 822-6163. Managing Editor: Steve Crombie Ass't Editor: Paula Martin Production: Bill Jamieson Contributors: Ron Burke, Connie Filletti, Abe Hefter, Charles Ker, and Gavin Wilson.



Please recycle

CALENDAR DEADLINES

For events in the period July 19 to August 15, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Tuesday, July 7, 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 July 16. Notices exceeding 35 words may be edited. The number of items for each faculty or department will be limited to four per issue.

THURSDAY, JULY 2

VST Summer School Public Lectures

Do You Enjoy Your Faith? Madeleine L'Engle, author. Vancouver School of Theology's Epiphany Chapel at 7:30pm. Adults \$10, students/seniors/unemployed \$5. Free parking. Call 228-9031.

MONDAY, JULY 6

Regent College Evening Public Lecture

The Role Of Women In Worship In The Old Testament. Dr. Bruce Waltke, prof. of Old Testament, Regent College. College Main Floor Auditorium from 8-8:50pm. Discussion follows. Admission free. Call 224-3245.

TUESDAY, JULY 7

VST Summer School Public Lectures

Reversing Directions In The Economy: A Christian Challenge. Dr. John B. Cobb, Jr., professor emeritus, School of Theology at Claremont. Vancouver School Of Theology's Epiphany Chapel at 7:30pm. Free parking. Call 228-9031.

WEDNESDAY, JULY 8

Regent College Evening Public Lecture

 Christian Worship: Is This One Of God's Terrible Springtimes? Dr. Donald Hustad, senior professor, Church Music, Southern Baptist Theological Seminary. College Main Floor Auditorium from 8-8:50pm. Discussion follows. Admission free. Call 224-3245.

THURSDAY, JULY 9

VST Summer School Public Lectures

Psalms: From Ancient Prayers To A Book Of Scripture. Dr. Gerald Sheppard, assoc. prof. of Old Testament, Emmanuel College, Toronto. Vancouver School Of Theology's Epiphany Chapel at 7:30pm. Free parking. Call 228-9031.

Regent College Evening Public Lecture

Teach Us To Care And Not To Care. The Rev. Dr. Eugene Peterson, visiting professor of Pittsburgh Theological Seminary; prof. of Spiritual Theology, Regent College. College Main Floor Auditorium from 8-8:50pm. Discussion follows. Admission free. Call 224-3245.

TUESDAY, JULY 14

VST Summer School Public Lectures

Early Christian Creation Spirituality. Dr. Harry O. Maier, post-doctoral fellow, Vancouver School of Theology's Epiphany Chapel at 7:30pm. Free parking. Call 228-9031.

WEDNESDAY, JULY 15

Regent College Evening Public Lecture

Evangelism In Eastern Europe. Dr. Peter Kuzmic, director, Evangelical Theological Seminary, Osijek, Yugoslavia. College Main Floor Auditorium from 8-8:50pm. Discussion follows. Admission free. Call 224-3245.

THURSDAY, JULY 16

Board Of Governors' Meeting

UBC's Board of Governors meets in the Board Room, second floor of the Old Administration Building, 6328 Memorial Rd. The open session starts at 9am.

VST Summer School Public Lectures

The Book Of Revelation And First Century Astronomy. Dr. Bruce J. Malina, professor of Biblical Studies, Creighton U., Omaha. Vancouver School Of Theology's Epiphany Chapel at 7:30pm. Free parking. Call 228-9031.

FRIDAY, JULY 17

Health Services/Policy Research Seminar Series

Recent Health Policy Reform Initiatives In New Zealand. Prof. Laurence Malcolm, head, Community Health, Wellington School of Medicine, U. of Otago, NZ. IRC 414 from 12-1:30pm. Call 822-5992.

Honorary Degrees Nominations

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

UBC Campus Tours

 Free walking tours of the campus are available through Aug. 28. Drop-in tours leave the SUB on weekdays at 10am and 1pm and take about 90 minutes. Highlights include gardens, galleries, museums and recreational facilities. Specialized/shorter tours for seniors, children and others. Call 822-3777.


Campus Tours For Prospective Students

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

Library Tours

Tour Main and other libraries on campus July 7-10, July 14 and 21 at 10:30am and 2:30pm. Main Library Entrance Hall. Duration 30 minutes. Call Sheryl Adam at 822-2076.

UBC Bookstore's Annual Sidewalk Sale

 Starts June 19-Aug. 1 from 10am-4:30pm, rain or shine. Call 822-2665.

Voices From The Picket Line

The Centre for Research in Women's Studies/Gender Relations is interviewing union women involved in the March strike at UBC. Call Alexa at 822-9171.

Fine Arts Gallery

Roy Kiyooka's "Hoarfrost Paintings." Open Tues.-Fri. from 10am-5pm. Saturdays 12-5pm. Free admission. Main Library. Call 822-2759.

Frederic Wood Theatre Performance

The House Of Blue Leaves by John Guare, directed by Simon Webb. June 25-July 8; in repertory July 9-Aug. 1. Frederic Wood Stage at 8pm. Adults \$10, students/seniors \$8. Call 822-2678.

Executive Programmes

Business seminars. July 6-7: Management Strategies for the Multicultural Workplace, \$795. 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.

English Language Institute Homestay

English-speaking families needed to host international students participating in ELI programs for periods of two-six weeks. Remuneration \$21/night. Call 222-5208.

UBC Daycare Centres

UBC daycare centres have space available immediately for 4-year-olds. Call 822-5343.

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.

Exercise/Weight Management Study

Sedentary female volunteers 25-49 years, 20-50 lbs overweight and tired of dieting required to participate in a three months exercise intervention study. 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. 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 the problems and 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.

PMS Research Study

 Volunteers needed for a study of an investigational medication to treat PMS. Call Doug Keller, Psychiatry, University Hospital, Shaughnessy Site at 822-7318.

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.

Stress/Blood Pressure Study

Learn how your body responds to stress. Call Dr. Wolfgang Linden in Psychology at 822-3800.

Surplus Equipment Recycling Facility (SERF)

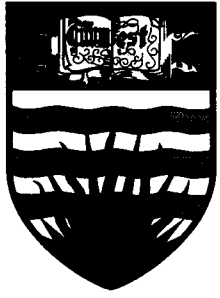
Used rebuilt IBM Selectric II correctable typewriters for \$400, while supplies last. Disposal of all surplus items. Every Wednesday, 12-5pm. Task Force Bldg., 2352 Health Sciences Mall. Call 822-2813.

Botanical Garden

Open daily from 10am-6pm. Free admission Wednesday. Call 822-4208.

Nitobe Garden

Open daily from 10am-8pm. Free admission Wednesday. Call 822-6038.



CONFLICT OF INTEREST

KEY POINTS FROM POLICY AND PROCEDURES ON CONFLICT OF INTEREST

The following points are drawn from the Policy and Procedures on Conflict of Interest to enable quick reading. Please refer to the policy and procedures for more complete guidelines and in-depth explanations.

The work we do at UBC, faculty and staff members alike, involves many different interests - those of students, parents, the business community, the disciplines practiced, the educational system in British Columbia, donors, vendors, the health system, all levels of government, other Canadian and international universities to name a few. The policy and procedures on conflict of interest are intended to assist members in their dealings with these various communities and the multitude of potentially conflicting interests.

Conflict of interest is a breach of an obligation to the University that has the effect or intention of advancing one's own interest or the interests of others in a way detrimental to the interests or potentially harmful to the integrity or fundamental mission of the University.

Conflicts of interest and the appearance of conflicts of interest must be avoided. Members of faculty and staff are expected to conduct themselves at all times with the highest ethical standards in a manner which will bear the closest scrutiny, and are responsible for seeking guidance from the appropriate source before embarking on activities which might be questionable.

Administrative heads of units and persons charged with significant responsibility will take immediate and appropriate action when they become aware of violations of the policy or its procedures.

TEACHING

Teachers should avoid conflicts of interest which may impede or compromise their responsibility to instruct and evaluate students in a fair and effective manner. The power imbalance which exists between instructor and student is not to be used for personal benefit.

SCHOLARLY ACTIVITIES

Since members of the university community build on each other's research, creative and professional work of distinction, they are mutually dependent on the honesty and care with which they conduct such work and report results. Particular concerns include: Service as a

Referee; Ethical Traditions of the Discipline; Recognition of Scholarship; Independence in Choosing Licensees; Business Involvement in Research Field; Payment of Research Honoraria.

EXTRA - UNIVERSITY ACTIVITIES

Full-time appointments involve a year-round commitment to teaching, research, service, support activities, and participation in the life of the University. Outside professional activities involve the same kind of specialized skills and knowledge that the faculty or staff member practices in the employ of the University. The essential principle on commitments to tasks outside the responsibilities of members to the University is that the University responsibilities must be completely satisfied.

DIRECTORSHIPS AND MEMBERSHIPS IN BOARDS

A faculty or staff member approached to serve as a member of a board has the duty to consult in advance of acceptance with the department head and dean. Unless appointed as a representative of the University, and recognized and recorded as such by the University, a faculty or staff member serving on the board of an outside organization does so in his or her individual capacity.

FINANCIAL AND NON-FINANCIAL GAIN

Acceptance of gifts for personal use from people who do business with the University could impede the objectivity of members and create a conflicting obligation to that person contrary to the obligation to UBC. For this reason, whenever a member is about to be offered a gift, he/she should initiate a discussion with the University so that the issues surrounding obligation may be completely disclosed and approval obtained before a personal benefit is received.

The responsibility rests with individuals to disclose whenever they have influence over a decision about a proposed contract between UBC and a company in which they have substantial holdings and to withdraw from the UBC decision-making process.

UBC equipment, materials, supplies and services are for University use and not for the personal use of members of faculty or staff.

Faculty and staff members should refrain from soliciting clients for private practice through connections at the Uni-

UNIVERSITY OF BRITISH COLUMBIA



June 18, 1992

Dear Colleagues:

This re-draft of the policy and procedures on conflict of interest is the result of substantial consultation with the University community since its last publication in January. I would like to take this opportunity now to thank all of you who made suggestions on the original draft. The Vice Presidents and I found them most useful in our deliberations about revisions.

As I noted at that time, a number of current UBC policies touch on conflict of interest issues, but they do not address the broad range of topics of concern to UBC and its faculty and staff. Bringing these matters together in a policy statement with comprehensive procedures to support it will increase consistency across campus, provide formal records where needed, and provide protection for both individuals and UBC. This draft is intended to replace existing policies PeB-7 (Honoraria Paid from Research Contracts and from Other Funding Agreements to Members of Faculty), PeB-8 (Honoraria to Full-Time Members of Faculty from University Funds), PeB-9 (Faculty and Staff Contracting Work with the University), PeB-16 (Outside Professional Activities), PeB-20 (Grant Funds - Nepotism), PeB-25 (Monies Deposited to University Accounts by Members of Faculty), and PeB-26 (Honoraria in Specific Purpose Research Accounts).

Please take the time to review this re-draft and provide your advice on any elements which you feel could be improved. Input will be most helpful if received by June 30. Please address your submissions to Libby Nason, Provost's Assistant, c/o the President's Office.

Yours sincerely,

David W. Strangway
President

versity.

A faculty or staff member is not permitted to use for personal gain information not in the public domain acquired as a result of a faculty or staff member's University-supported activities.

There are situations when certain information about the affairs of the University within knowledge of members of faculty and staff is confidential and is not to be disclosed to others.

USE OF UBC'S NAME

Members of the University community may express their opinions outside the University with the same freedom as other citizens. Such expressions are solely the responsibility of the individual, and the University assumes no responsibility for them, except for statements issued on behalf of the University by those so authorized to act by the University administration.

FAVOURITISM IN EMPLOYMENT

The University takes every precau-

tion to guard against favouritism in hiring. Members must be scrupulously fair and honest in ensuring that positions are well advertised and that appointments are offered always to the best-qualified available candidates.

PURCHASING/SELLING

All members who are in a position to influence a decision about a purchase/sale must disclose in writing any personal material interest and withdraw from the decision-making process, if that is deemed appropriate.

FUNDRAISING

Although interest from UBC's external community about the teaching and research programs is welcome, decisions concerning the academic affairs of the University are to be made through the appropriate, established bodies and authorities, and not be solely responsive to external pressures.

**CONFLICT OF INTEREST****DRAFT POLICY AND PROCEDURES CONFLICT OF INTEREST****PREAMBLE**

"From their beginnings, universities have accepted the responsibility for preserving and advancing formal knowledge. The University of British Columbia has shared this responsibility since its founding. Now with the development of a knowledge-intensive society, the crucial function of the university to preserve and extend our stock of knowledge grows ever more challenging."

-Second to None, the UBC Mission Statement

The University is a forum for critical discussion and debate and a locus of unbiased inquiry. It is responsible for advancing and disseminating knowledge. It is important to retain the public's trust and confidence in order to play such a role.

The University expects each of its members - faculty and staff - to act ethically and with integrity. Among these obligations, members acting on the University's behalf must avoid ethical, legal, financial or other conflicts of interest.

POLICY STATEMENT

Conflict of interest is a breach of an obligation to the University that has the effect or intention of advancing one's own interest or the interests of others in a way detrimental to the interests or potentially harmful to the integrity or fundamental mission of the University. Conflicts of interest and the appearance of conflicts of interest must be avoided.

Cases fall into three categories: those which require disclosure, those which also require prior approval and those which are prohibited. Since the possibilities for conflict of interest are almost limitless and cannot all be covered in procedures, members are expected to conduct themselves at all times with the highest ethical standards in a manner which will bear the closest scrutiny, and are responsible for seeking guidance from the appropriate source before embarking on activities which might be questionable.

This policy is meant to protect both the individual and the institution. Guidelines have been developed about the acceptability of certain activities in the following areas: extra-university activities, financial and non-financial benefits, confidential information, favouritism in employment, scholarly activity, purchasing and selling activities, teaching, and external relations.

Administrative heads of units and persons charged with significant responsibility will take immediate and appropriate action when they become aware of violations of the policy or its procedures.

PROCEDURES**TEACHING**

University teachers should avoid conflicts of interest which may impede or compromise their responsibility to instruct and evaluate students in a fair and effective manner. The power imbalance which exists between instructor and student is not to be used for personal benefit.

Where there is uncertainty about the existence of a conflict of interest, or about how to avoid it, it is the responsibility of the teacher concerned to seek consultation with the administrative head of unit.

EXAMPLES:

Students enrolled in courses of teachers who know them in an extra-University context (eg. relative, friend, acquaintance):

- When a close personal relationship between a teacher and a student which might appear to compromise the objectivity of the teacher develops, it is the responsibility of the teacher to disclose the matter to the administrative head of the unit and to cooperate with measures for avoidance of the conflict of interest that the administrative head considers appropriate.
- When avoidance of apparent conflict of interest would be unfair to a student (e.g. because a particular course is required for their program), administrative heads of units should make arrangements for independent evaluation of the student's work and address perceptions other students may have regarding fairness and impartiality, as appropriate, for the protection of the student, the teacher and the University.

Apparent exploitation of students to be avoided:

- engaging students to perform services of any kind for the teacher where there is an apprehension that failure to comply will result in a biased evaluation;
- failure to give proper recognition to any reliance on the ideas, work or assistance of students or failure to obtain, where appropriate, prior permission for the use of work done or results obtained by students;
- use of students as human subjects in experiments where there is a reasonable apprehension that to refuse will affect their academic standing;
- excessive assignment of medical students to routine clinical service duties for which payment is received from the Medical Services Association by a hospital or supervising physician;
- student employment by a faculty-owned company, unless the following conditions are in

place:

- the student is under no obligation to engage in such work;
- the student's performance in such work has no bearing on academic standing;
- the student is reimbursed at market value for the work performed and/or receives other significant benefit, e.g. the work is relevant to the student's academic/professional training;
- providing students to local employers under the guise of work experience where they receive no, or less than competitive remuneration, or when such situations do not enhance the student's educational experience through opportunities to acquire/apply/test knowledge;
- encouraging graduate students to prolong research well beyond the point where a satisfactory thesis could be generated in order to further the research career of the faculty member.

Concerns about personal financial benefit when dealing with students:

- Frequently the best text for a course is a book written by the faculty member giving the course. While there is a personal benefit from the sale of such books, the selection of textbooks and other instructional aids for the course is to be based on the best for the course of study, and not on the personal benefit to the teacher;
- The sale of lecture notes at a profit by the instructor rather than through the Bookstore or Departmental Office;
- The acceptance of money from a student for tutoring by a faculty member or the acceptance of money or significant gifts from any student or potential student;
- The conferring of money, privileges or benefits upon students with whom the teacher has an extra-University connection. An example of this would be to choose, from the student body, a relative to be a research assistant.

SCHOLARLY ACTIVITIES

Since members of the university community build on each other's research, creative and professional work of distinction, they are mutually dependent on the honesty and care with which they conduct such work and report results. Members can foster an environment characterized by openness of communications and interdependence of thought and work by promoting honesty and appropriate ethical research behavior, and by discouraging misconduct, unethical behavior and irresponsible research, creative or professional work.

Conflict of interest in the conduct and reporting of research/crea-

tive/professional work can take many forms. In addition, the University's commitment to liaise with industry and transfer technology will often result in arrangements which are potential conflicts of interest.

The following categories illustrate the range of situations which faculty and staff members should recognize as potential conflicts of interest and are not an exhaustive list of all types of conflict of interest situations in the areas of research and industry liaison.

SERVICE AS A REFEREE:

Since the academic community relies heavily on peer review for evaluation of research, an ethical burden falls on the shoulders of referees. In the role of referee, the researcher could attempt to take advantage of the knowledge gained through the review processes associated with research proposals to agencies and submissions to journals and other publications.

For example...

- It could be a conflict of interest if research applications and reports are not handled expeditiously, and the content of such applications and reports not treated confidentially and honestly.
- Use of applications and reports for purposes other than the review is considered a conflict of interest.

ETHICAL TRADITIONS OF THE DISCIPLINE:

On certain matters, members of a discipline or field of study may have vested interests that correspond to the interests of a researcher who is under review, which are conflicts of interest in the adjudication of ethical issues. As leaders in their fields, members of the University community are expected to offer their expertise; however, when the University is investigating allegations of possible unethical conduct arising internally, the views of scholars with a vested interest should be balanced with views from outside the field or discipline. For example, it could be considered a conflict of interest for the issues surrounding the use of human subjects in research to be decided solely by researchers who use human subjects in their work.

RECOGNITION OF SCHOLARSHIP:

It is unethical and not acceptable to fail to give proper recognition to any reliance on the ideas, work or assistance of others, or to fail to obtain prior permission for the use of work done or results obtained by others.

INDEPENDENCE IN CHOOSING LICENSEES:

There are a variety of possible avenues from which UBC can choose for licensing a discovery or invention, such as a new company established for the specific purpose of bringing the invention to market or an existing company in British Columbia or of international origin. Often the choice is directed to a company which can best market the invention/discovery and has the capability to commercialize the product with wide dissemination. The importance of transfer not only of the patent but also the know-how is recognized as essential to the success of the venture. In making these decisions, the issue of personal gain of the researcher must be addressed. This requires the complete disclosure on the part of the researcher about involvement with companies under consideration, as the royalties awarded through the license will be adjusted to take into consideration any company holdings of the researcher.

BUSINESS INVOLVEMENT IN RESEARCH FIELD:

A member of the faculty or staff is considered to have a potential conflict of interest if, in dealings with the University, the best interests of the University could be compromised in the personal interest of the faculty or staff member or in the interests of an external company or agency in which the individual has a significant interest. "Significant interest" implies that, as a result of affiliation with an outside organization (formal or informal), the individual can influence that organization's decisions to the detriment of UBC. Examples of significant interest that could lead to this situation include but are not limited to:

- Share position
- Directorship
- Managerial position (paid or unpaid)
- Consulting relationship

For example...

• A company in financial difficulty owes UBC money for a cooperative research program; a UBC employee with a significant interest in the company could take part in a decision to pay creditors other than UBC.

• A UBC graduate student supervised by a UBC faculty member who has a significant interest in a company works on a project of interest to the company is asked to assign his or her intellectual property to the company without disclosure to UBC.

• A UBC faculty member has a significant interest in a company and through the activity utilizes intellectual property to which students, UBC staff or other faculty members have made substantial contributions without recognition or compensation to the other individuals.



WORLD OF OPPORTUNITY CAMPAIGN CASE STATEMENT

Executive Summary

Usually when we say that UBC has made history, we mean that some distinguished faculty members and their students have broken new ground and brought new knowledge to light.

In the case of the UBC Campaign, A World of Opportunity, the entire UBC community and family are making history. Together, our alumni of all generations and regions world-wide, parents of students, friends, corporations, foundations, staff, faculty, students and the Government of British Columbia have committed to UBC the biggest total gift in the history of higher education in Canada - \$220 million as of May 30, 1992. We're still counting toward our \$252 million goal by the end of our 1992 target date.

Together, we are giving UBC nearly 100 new academic endowments, including centres, chairs and professorships, which will create bridges among the disciplines leading to new insights, different ways of thinking and a more unified understanding of critical issues affecting our society. Already, these endowments are prompting new activities and support. Programmatic funds from corporations, foundations and granting agencies are rising substantially in response to UBC's expanding capabilities.

Together, we are creating more than 40 scholarship funds and student exchange funds, helping to make UBC more accessible to graduate and undergraduate students, and ensuring that more students have the opportunity to attend university, regardless of financial status.

Together, we are constructing nine new buildings, which will benefit the academic mission of the institution and stimulate the province's construction industry through the creation of more than 700 jobs. By the end of the decade, when construction is completed, UBC grads returning to campus will notice two things: a striking, physically coherent campus with a strong atmosphere of purpose; and the same university they knew and loved as students, full of beauty, tradition, and a faculty that retains its commitment to excellence.

As we enter the final months of active fund raising for the World of Opportunity Campaign, we find ourselves at a critical juncture. We are delighted by the Campaign's remarkable success. Still, it is imperative that we maintain the momentum through to the end of the year.

By year-end, we need \$32 million to complete 21 campaign projects which are partially funded. The projects range from a New Library Centre, to keep pace with rapid growth in fields of knowledge, to the Institute of Asian Research, which will enable UBC to build on its extensive Asian research capability, and a Professorship in Health Promotion, to foster healthier lifestyles through education and through professional and community programs that reach beyond the medical care system.

UBC will continue to look to individuals, corporations and foundations for support. In addition, the university is working to re-establish ties with old friends, and make new friends throughout Canada and the world - particularly in the Asia Pacific region where interest and commitment toward our mission has been outstanding.

Through the University Matching Program, the Government of British Columbia has committed to providing some \$90 million by March 1996 to match private campaign contributions. To date, UBC has received \$40 million in matching funds. The remainder of the funds will be used to match certain pledge payments and further donations to specific projects listed in the Gift Opportunities section of this Case Statement.

When we celebrate the completion of the Campaign in early 1993, the fundamental groundwork established through the Campaign will provide the impetus for continued fund raising, based on faculty and university priorities.

As participants in the World of Opportunity Campaign, we are contributing to an achievement extending far beyond the boundaries of this campus. We are stakeholders in the university's mission, and members of UBC's international family. The success of the Campaign reflects the power each of us has in supporting institutions crucial to a global society.

David W. Strangway
President
The University of British Columbia

CAMPAIGN UPDATE

Funded Projects: Buildings

With the overwhelming support of UBC's friends, alumni, parents, faculty, students and the Government of British Columbia, the university has been propelled into a stage of excitement - in teaching, in research, and in construction. This period of evolution is unparalleled in UBC's 77-year history.

A new master plan for the campus is taking shape to accommodate construction of many new buildings and facilities during the next decade. Thanks to funding through the World of Opportunity Campaign, many of UBC's world class departments will be housed in world-class facilities.

On April 29, 1992, the **David Lam Management Research Centre**, designed by CJP Architects, became the first campaign building to open its doors. Located in the heart of the UBC campus, the centre is a valuable new resource for the Faculty of Commerce and Business Administration, the overall UBC campus and the business community at large. It features the university's first placement service where employers can recruit students, an executive conference centre, and the David Lam Management Research Library, housing the province's most comprehensive collection of Asia Pacific business publications. Major contributors to the centre are the David and Dorothy Lam Foundation, Edgar F. Kaiser Jr., L.O.M. Western Securities Ltd. and Peter M. Brown, Royal Trust, MacMillan Bloedel Limited, Lily and Robert H. Lee, Chevron Canada Ltd., Westcoast Energy Inc., Valleydene Corporation Ltd., Canadian Pacific Limited,

Alcan, The Molson Family Foundation, Nesbitt Thomson Inc., and an anonymous donor.

On May 30, 1992, a sod turning took place on the site of western Canada's first graduate college, **Green College**, funded by UBC's great benefactor, Cecil Green. Green College will be a hub of intellectual growth and activity, bringing together the best minds to confront the issues that face the world, from overpopulation and pollution to political philosophy and medical ethics. Architects Birmingham and Wood, and Paul Merrick designed the college. Construction will begin in the fall.

Construction is nearing completion on the **First Nations Longhouse**, the first of its kind on a North American campus, which will be the focus of First Nations student activities at UBC. Building the longhouse underscores UBC's commitment to promoting understanding among people of all cultures and reinforces the need to involve more First Nations people in universities. Jack Bell and June and Bill Bellman are major contributors to the project, designed by Larry McFarland Architect.

UBC's friends share the university's commitment to enhancing British Columbia's achievements in the creative and performing arts, and have demonstrated that commitment by funding several major projects. The biggest project, the **Chan Centre for the Performing Arts**, will draw local and international audiences to the UBC campus. Situated at the oldest and most prestigious entrance to the university campus adjacent to the Faculty Club and heritage rose garden, it will feature: a concert hall, with a seating capacity of 1400 and superb acoustics, to meet Vancouver's need for a mid-sized performance hall; and a music wing to provide choral and orchestral rehearsal spaces, and many facilities for recording and practice. The Chan Family Foundation has funded the new facility. UBC has selected Bing Thom Architects Inc. for the design of the centre and a sod turning ceremony will be held in the fall of 1993. In addition, B.C. Tel, the Royal Bank and Falconbridge Ltd. have made

B.C. Government Commitment

UBC would like to acknowledge the support of the Government of British Columbia as an active investor in UBC's World of Opportunity Campaign.

The government has contributed significant levels of both operating and capital funding for B.C.'s universities in order to encourage the development of first class institutions. In addition, in May 1988 it initiated the University Matching Program, a \$110 million program designed to involve the private sector as a full partner in further enhancing the excellence of post-secondary education.

After two years of enthusiastic response from the private sector, the government expanded the Matching Program to \$150 million. The effect of the Matching Program on the success of the Campaign has been tremendous. The government's initiative has stimulated some of the largest gifts ever to a public institution in Canada.

The Government of British Columbia has a long-term commitment to its universities and the role they play in the evolution of the province.

Recognizing that advanced research and study are fundamental to the diversification of our economy and an improved understanding of social issues, the government is resolved to working with UBC and the other post-secondary institutions to enhance their ability to play these roles effectively.



UNIVERSITY OF BRITISH COLUMBIA

WORLD OF OPPORTUNITY CAMPAIGN CASE STATEMENT

Page 2

major gifts in support of the creative and performing arts.

In early 1993, construction will commence on the **Morris and Helen Belkin Art Gallery**, which further supports UBC's commitment to the arts. Members of the community will be invited to enjoy the gallery, which will house UBC's extensive art collection and donated art works. Morris and Helen Belkin and the B.C. government are the contributors to the facility, designed by Peter Cardew.

Two campaign projects will expand space for intramural sports and fitness activities. A new **Sport and Recreation Centre** will be constructed and the **War Memorial Gym** will be renovated. UBC students are contributing to the new facilities over a five-year period. Labatt Breweries of British Columbia has also donated to the Sport and Recreation Centre and London Life Insurance Company has contributed to the War Memorial Gym renovation.

In addition to its matching gifts program, the Government of British Columbia has made possible the construction of several other facilities on the UBC campus. Construction is underway on the **Centre for Integrated Computer Systems Research**, designed by Chernoff Thompson Architects, to stimulate research and development of the province's burgeoning high tech industry, and planning funds have been released for the **Advanced Materials Laboratories**, designed by A.P.R.A./Hemingway Nelson. The government has received a formal request to release planning funds for a new **Forest Sciences Complex**, to be completed in 1994/95. Major donors to the Campaign who will be recognized in the Advanced Materials Laboratories are George Tso, in recognition of his father, Paul Y. Tso, Stelco Inc., Inco Limited and Xerox Canada Incorporated. Fletcher Challenge Canada Limited, Weldwood of Canada Ltd., The Noranda Foundation & Noranda Forest Inc., Janet W. Ketcham & West Fraser Timber Co. Ltd., and Canadian Pacific Limited will be recognized in the Forest Sciences Complex.

This follows capital funding for the new **Chemistry-Physics Building** (Hemingway Nelson Architect - now complete); **University Services Building** (Howard Yano Architects - now complete); **Student Services Building** as an extension to **Brock Hall** (Poon, Gardner, Billington Architects - completion, fall 1992); **Medical Student/Alumni Centre** at Vancouver General Hospital (now complete); **Ritsumeikan UBC House** (Matsuzaki Wright Architects - now complete); and planning funds have been released for the **Scarfe Building** expansion and renovation (Hotson Bakker Architects).

The **Monsanto Loon Lake Classroom Facility** at the Malcolm Knapp Research Forest near Maple Ridge is a training ground for forestry students from UBC, BCIT, the College of New Caledonia, Selkirk and other technical regional col-

leges. Monsanto Canada Inc. funded the project.

Other building projects funded through generous contributions include: **The Botanical Garden Education, Visitors and Research Centre** in the David C. Lam Asian Garden, donated by The Honourable David Lam and Mrs. Dorothy Lam; **The Campbell Building Administration and Research** and the **Ivy Campbell Taylor Library** in the Botanical Garden, funded by an anonymous donor; and the **Centre for Geriatric Dentistry** with funding from Veteran's Affairs of Canada.

Funded Projects: Academic Endowments

To date, 71 academic and community endowments have been fully funded through the Campaign, providing a wide range of options for donors to support research and teaching in many fields of study such as health, the environment, law, ethics, business, science, engineering and the arts.

With a phenomenal \$15 million gift from Peter Wall, UBC will establish Canada's first **Institute for Advanced Studies**. The institute will attract scholars to UBC who are in great international demand, including winners of Nobel and Pulitzer prizes. It will allow scholars in residence to study and conduct research in a wide range of fields spanning the humanities, social sciences, life sciences and physical sciences. The institute will be modelled on the renowned Institute for Advanced Studies in Princeton, home to many of the world's leading scholars.

Through the **Centre for Applied Ethics**, UBC will stimulate exploration of ethical questions in medicine, business, law, science, engineering and other disciplines. Chairs in the centre endowed through major gifts from W. Maurice Young and Robert C. Rodgers include the **Maurice Young Chair in Applied Ethics**; an endowment to fund the centre's visiting scholars and seconded faculty members, also donated by W. Maurice Young; and the **Patricia F. Rodgers Chair in Applied Ethics**. Generous contributions to the centre have also been received from Clark Bentall and Western Pulp Limited Partnership.

The **Centre for Japanese Research** will be a centre of excellence for research on economic, political, social and technological issues, and will promote dialogue on major issues of common concern to Japan and Canada. Thanks to the fund raising efforts of the Vancouver Japanese Businessmen's Association (Konwakai), corporate members of Keidanren in Japan, and the Government of British Columbia, the centre is the first within UBC's enhanced Institute of Asian Research to be fully funded.

Another major new initiative is the \$6 million **W.C.B. Applied Research and Education Endowment Fund**, funded by the Workers' Compensation Board and B.C. Government matching funds. The funds will be used to create an interdisciplinary graduate program in occupational hygiene, the only such program west of Ontario. It will also include the establishment of three chairs in support of enhancing worker health and safety in British Columbia and an endowment to support the activities of the program.

The Real Estate Foundation of British Columbia has provided funding for a total of seven endowments: **Bureau of Asset Management Research**; **Canadian Real Estate Research Bureau**; **Chair in Computer Integrated Design and Construction** (JC Scott Construction made a further contribution to the chair); **Real Estate Foundation Junior Professorship in Real Estate Finance**; **Real Estate Foundation Junior Professorship in Urban Land Economics**; **Programme in Real Property Development and Planning**; and **Real Estate Foundation Urban Land Economics Collection**. These donations have been matched either by the B.C. government matching program or by the Faculty of Commerce and Business Administration endowment fund.

Four endowments have been established with a focus on brain research, to develop better means of diagnosis and treatment of disorders of the brain and spinal cord. They are: the **Jack Bell Chair in Schizophrenia**, funded by Jack Bell, Robin Endres and the B.C. Friends of Schizophrenics; **Louise Brown Chair in Neurosciences**; **Marianne Koerner Chair in Neurosciences**; and the **Alcan Chair in Neurosciences**. In addition, a **Chair in Spinal Cord Physiology** has been established with funding from the Rick Hansen Man in Motion World Tour Society. The success of fund raising for neurosciences through the World of Opportunity Campaign has resulted in an additional major contribution for brain research from Bristol Myers Squibb.

Several individuals, corporations and foundations have made contributions toward junior professorships in the Faculty of Commerce and Business Administration, with a view to helping to alleviate a severe shortage of business school faculty in North America. The following junior professorships have been established: **Canfor Junior Professorship in Management Information Systems**; **Ronald L. Cliff Junior Professorship in Accountancy**; **B.I. Ghert Family Foundation Junior Professorship in Commerce**; **Finning Junior Professorship in Marketing**; **Finning Junior Professorship in Finance**; and **Real Estate Foundation Junior Professorships**, as listed above.

As of May 30, 1992, \$4 million has been committed to the establishment of a **Media and Graphics Interdisciplinary Centre (MAGIC)**. Through

MAGIC, UBC will pioneer the use of computer graphics, digital sound and other multi-media technology across a range of disciplines. MAGIC will foster the transfer of this technology throughout the university and the community, making UBC a leader in this fast-growing field. IBM and Alias Research Inc. have made major commitments of equipment and expertise to the centre. Wavefront Canada is also a contributor.

Hundreds of UBC graduates in the Arts have careers that are artistically rich and rewarding. They contribute immeasurably to the lives of their communities. Three endowments will enhance UBC's and the province's achievements in the creative and performing arts: the **David and Brenda McLean Endowment for the University Singers**; the **Brenda McLean Endowment in the Creative and Performing Arts**; and the **Chan Endowment Fund for the Performing Arts**. In addition, the **Joan Carlisle-Irving Artist-in-Residence** and the **Arnold and Nancy Cliff Writer-in-Residence** programs will bring noteworthy professionals, known for their outstanding work, to share their expertise with UBC students, faculty and members of the community. A **Travelling Research Fellow in Art History** will expand UBC's graduate programs in art history, the most comprehensive in Canada, to allow students to travel to major museums and archives to study art and architecture.

Donations and matching fund commitments will lead to the creation of the following new chairs and programs:

- **Chair in AIDS**, with major funding by the St. Paul's Hospital Foundation and Petro Canada Inc., 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.

- **Alcan Chair in Materials Process Engineering** will improve efficiencies in the production of metals, including nickel, copper, lead, zinc, gold, silver, aluminum and steel -- a multi-billion dollar activity which is an important component of the B.C. and Canadian economy.

- **Arthur Andersen MIS Research Excellence Fund** will further research in the integration of new information technologies, with the collaboration of industry, government and non-profit organizations. Personnel working in the information systems field will have the opportunity to attend UBC for seminars and courses. Andersen Consulting is a contributor to the fund.

- **British Columbia Lung Association Professorship in Occupational Health** will address public concerns regarding the potentially serious effects of chemical, physical and biological agents in the environment and the workplace.

- **Brenda and David McLean Chair in Canadian Studies** will serve as an intellectual centre and focus for new and existing scholarship and research. It will enhance awareness and interest in Canadian culture in Canada and abroad.

- **Cominco Chair in Minerals and the Environment** will investigate the formation of mineral deposits and the environmental impact of mining activities. The added spin-off will be the development of new mining exploration techniques.

- **Centre for Research in Entrepreneurship and Venture Capital**, funded by W. Maurice Young, will address issues raised through the unprecedented growth in new business ventures during the past decade - the source of the majority of newly created jobs in B.C.

- **Chair in Forest Products Biotechnology**, funded by MacMillan Bloedel Limited and Weyerhaeuser Canada Ltd., is a major initiative to develop new, environmentally safe materials to enhance or replace the chemical processing of wood and combat traditional biological problems such as stain and decay. Already, the establishment of this chair has resulted in further support from industry and from research fund granting agencies.

- **Clifford H. Frame Chair in Mining and Mineral Process Engineering** is funded by Curragh Resources Inc. The holder of the chair will work closely with other academics, industry and government to develop innovative technology to ensure that Canada's mining industry remains internationally competitive and recovers mineral resources in a judicious manner.

- **Hamber Chair in Medicine**, named after Eric W. Hamber, a former UBC chancellor, provides funding for the head of the Department of Medicine.

- **Rick Hansen National Fellow**, a \$4-million endowment to support national advocacy on behalf of people with disabilities, is funded by the Department of the Secretary of State, Government of Canada, and B.C. government matching funds.

- **Hongkong Bank Chair in Asian Commerce** will increase knowledge in the area of Pacific Rim Trade, allowing Canada and B.C. to work within the Asia Pacific marketplace.

- **Hongkong Bank Chair for the Director of the Institute of Asian Research** has enabled UBC to recruit a world-renowned expert in Asian Studies to be the director of the expanded institute.

- **Dr. Jean Templeton Hugill Chair in Anaesthesia** will enhance teaching and research into the safety of anaesthesia administration, as the number of high risk patients in the province's teaching hospitals continues to grow.

- **IBM Legal Research Fund** will greatly improve the efficiency



within Canada's legal system to research and prepare legal documentation.

· **IBM Professorships(2) in Computer Science Research** will stimulate research on the development of computer-based systems, one of the most rapidly expanding areas of the British Columbia economy.

· **Imajo Cedar Management Program** will research and demonstrate sustainable management practices, to increase the growth rate of western red cedar.

· **Asa and Kashmir Johal & Family Chair in Paediatric Oncology** will enable UBC to work in close co-operation with B.C.'s Children's Hospital to study the incidence and prevention of cancer in children.

· **Edgar F. Kaiser Jr. Chair in Organizational Behaviour** will be awarded to an individual who has made an outstanding contribution to research and teaching in the field of Organizational Behaviour.

· **Hugh Keenleyside Endowment in Canadian Diplomacy** will enable a distinguished scholar to provide leadership in the teaching and study of contemporary international relations. It is named after Hugh Keenleyside, a UBC professor, who played an important role in opening relations between Canada and Japan after World War II.

· **Norman Keevil Chair in Mineral Exploration**, funded by Teck Corporation, will establish the linkage to ensure close co-operation between the university and the mineral exploration community.

· **David Lam Management Research Library Endowment** will support the acquisition and maintenance of publications in the David Lam Management Research Library, which houses the province's most comprehensive collection of Asia Pacific business publications.

· **David Lam Chair in Multicultural Education**, with additional funding from Multiculturalism and Citizenship Canada, will enable the Faculty of Education to develop appropriate programs, resource materials and curricula to support and enhance our society's multi-ethnic identity.

· **Dorothy Lam Chair in Special Education** will enable the Faculty of Education to pursue studies to identify individuals with special needs, analyse how they can best be educated, and address the effects of "mainstreaming" on their intellectual and social development.

· **Chair in Landscape and Liveable Environments** will introduce alternatives to the development and organization of regional and urban landscapes, to create more environmentally responsible, liveable communities.

· **Dr. S. Wah Leung Endowment Fund** is named after UBC's founding dean of the Faculty of Dentistry, an interna-

tionally respected scholar and humanitarian. The endowment will support the educational and research programs begun by Dr. Leung, with emphasis on caring for the special needs of students, encouraging new innovative approaches to teaching and research in the oral health sciences, and promoting improved dental health throughout the world. The Chinese Canadian Dental Society of B.C. is a major contributor to the fund.

· **The Tong Louie Chair in Pharmacy Administration** will meet an increasing need for instruction in pharmacy administration and will enhance research in such areas as the role and importance of drugs in the Canadian health care system, and how to improve pharmaceutical services to the public.

· **Maclean Hunter Chair in Non-Fiction and Business Writing** will emphasize the creative art of writing, with business as the primary subject matter.

· **David McLean Leadership Award** will assist student members who represent the student body during one-year terms on the UBC Board of Governors.

· **Nathan Nemetz Chair in Legal History** will investigate the complex relationship among employees, unions and management, with a view to resolving legal issues related to work issues fairly and cost-effectively.

· **Mary Pack - Arthritis Society Chair in Rheumatology** will enable UBC to recruit an expert in the most up-to-date technology to help unlock some of the questions regarding the cause of arthritis.

· **Rheumatology Research Endowment** will support the activities of the Mary Pack - Arthritis Society Chair in Rheumatology.

· **Harold Robinson - Arthritis Society Chair in Arthritic Diseases** will promote a coordinated approach to researching questions related to the treatment of arthritis with an emphasis on the lifestyle consequences of arthritis, wellness, and how individuals can be encouraged to participate in their own care.

· **Sauder Family Chair in Paediatric Infectious Diseases** will focus on how bacteria causes disease, with the aim of preventing infectious diseases through new diagnosis and therapy.

· **Sauder Family Chair in Viral Diseases of Children** will allow UBC to make progress in its search for treatments for the debilitating viral diseases that affect children.

· **Shoppers Drug Mart Professorship in Clinical Pharmacy**, with additional funding from Du Pont Canada Inc. and the **David MacDonald Professorship in Clinical Pharmacy**, funded by Imasco, will enhance UBC's expertise in areas, such as cystic fibrosis research, and research of the pharmacology and pharmacokinetics of anti-epileptic drugs.

· **Chris Spencer Foundation Professorship in Dyslexia** will establish a research program in dyslexia and related learning disabilities and develop a team of graduate students and faculty to study dyslexia from a multi-disciplinary perspective.

· **Warren Chair in Nuclear Physics**, with funding from TRIUMF and Ebc Industries Ltd. The chair, named in honour of John Warren, the first director of TRIUMF and one of the original nuclear physics researchers at UBC, will complement the outstanding support of university research efforts by TRIUMF.

· **Woodward Chair in Surgery** will foster more active participation of surgeons in new and innovative research and enable them to continue to improve patient care.

· The Bank of Montreal has contributed further funding to its **Chair in International Finance**.

Equipment and Collections

The World of Opportunity Campaign is building on the strengths of the university's collections and providing new technology critical to advances in research. The government matching program has been very effective in attracting gifts-in-kind.

To date, the university has received gifts of collections and equipment from Walter C. Koerner, Eric Sonner, IBM Canada Limited, Hewlett-Packard (Canada) Ltd., MacMillan Bloedel Limited, the Kinsmen Club of Vancouver, Michael M. Koerner, B.C. Hydro, Alias Research Inc., Wavefront Canada Ltd., the Sauder Family, Packard Bell Electronics Inc., and Fisher Scientific Limited. Stelco Inc., the Cy and Emerald Keyes Charitable Foundation, Finning Ltd., and Inco Limited have donated gifts of cash for the purchase of collections and equipment.

Funded Projects: The President's Fund

One of UBC's key challenges in the 1990s is to keep pace with rapid changes in knowledge and society. Fund raising will continue for the following endowments, providing the flexibility to respond to emerging priorities.

The **Opportunity Endowment** will support initiatives in learning, research and public service. It will provide seed money for topical seminars and conferences, faculty recruitment, purchase of important collections, visiting lecturer programs and other projects.

The Vancouver Foundation has pledged \$3 million to match gifts to the Opportunity Endowment and the Government of B.C. will provide a further dollar-for-dollar match.

Major donors to the Opportunity Endowment include Mrs. Gordon T. Southam, Eugene W. King, MacMillan Bloedel Limited, RHW Foundation, Canfor Corporation, Phillips Hager & North Ltd., MacDonald Dettwiler & Associates, the McLean Foundation, and the J.W. McConnell Family Foundation.

UBC alumni have made significant contributions to the endowment.

Through the **Scholarship Endowment**, UBC will continue to attract talented students, regardless of financial status. In addition, student exchange funds have been created to allow graduate and undergraduate students to integrate into the academic and social life of a foreign country, while fulfilling degree requirements of their home university.

New awards will be established in several important areas:

· **Education Abroad** to assist students coming from or going to sister universities around the world on a credit exchange basis. This year, 70 students are benefiting from the program, and it is UBC's goal that five per cent of our graduates will soon have the opportunity to study abroad.

- Hugh M. Brock Scholarships
- Cathay Pacific Airways Ltd. Education Abroad Scholarships
- Chan Tat Chee Memorial Fund Education Abroad Scholarships
- Simon K.Y. Lee Foundation Education Abroad Awards
- Westcoast Energy Inc. Education Abroad Fellowships

· **Bursaries** to ensure that more students have the opportunity to attend university, regardless of financial status.

- Bursaries funded through the Estate of J.V. Clyne
- Ronald Lorraine Cliff Bursary Fund
- The Law Foundation of British Columbia Bursary Endowment Fund
- The Simons Foundation Bursary Fund

· **National Entrance Scholarships** to ensure that students from all parts of Canada have the opportunity to attend UBC.

- Canadian Pacific Forest Products National Entrance Scholarships
- Central Guaranty Trust National Entrance Scholarship
- David Crombie National Entrance Scholarships
- Crown Life Assurance National Entrance Scholarship
- Merck Frosst National Entrance Scholarships
- Rayrock Yellowknife Resources Inc. National Entrance Scholarships

· Rio Algom National Entrance Scholarships

· Rogers Communications National Entrance Scholarship

· **Graduate Scholarships and Fellowships** to open UBC's doors to more graduate students.

- Bank of Montreal Graduate Fellowships
- Canadian National Graduate Transportation Scholarships
- Hong Kong - Canada Business Association Graduate Scholarship in Commerce
- Hong Kong - Canada Business Association Graduate Scholarship
- Asa Johal Fellowship in Asian Studies
- Asa Johal Graduate Fellowship in Forestry
- Endowed Graduate Scholarships in Chemistry, funded through the Estate of Gladys E. Laird
- Peter and Penny Lusztig Commerce Graduate Fellowship
- Northern Telecom Graduate Fellowships
- Scott Paper Graduate Fellowships
- The Simons Foundation Doctoral Scholarships
- Webster Graduate Fellows Fund

· **First Nations Fellowships**, to reduce barriers to attending university faced by First Nations people and to encourage them to participate fully at UBC.

- Dofasco Inc. First Nations Fellowship
- Michael and Sonja Koerner First Nations Fellowship
- Westcoast Energy Inc. First Nations Fellowships

· **Awards for Outstanding Accomplishment**, to attract exceptional students to campus and encourage them to fulfil their potential.

- Earle Birney Scholarship in Creative Writing
- Harold B. and Nellie Boyes Scholarships
- C.K. Choi Scholarships and Fellowships
- Diachem Soccer Scholarships
- CUPE 116 Scholarship
- Fletcher Challenge Fellowships
- Bob Hindmarch Scholarship, funded by Brenda and David McLean
- Bert Hoffmeister Forest Wildlife Scholarship
- Darcy and Manjit Johal, Avtar and Geven Opal Sikh Studies Endowment
- Leonard S. Klinck Fellowships
- The London Drugs Scholarship Endowment
- Northwood Pulp and Timber Ltd. Scholarships
- H. Peter Oberlander Medal and Prize in Landscape & Liveable Environment
- Real Estate Foundation Fellows Fund
- Rick Sample Memorial Fund in Computer Science
- A.D. Scott Fellowship in Economics
- Henry S. Skinner Scholarship
- Sopron Alumni Education Scholarship
- UMA Scholarship



UNIVERSITY OF BRITISH COLUMBIA

WORLD OF OPPORTUNITY CAMPAIGN CASE STATEMENT

Campaign Donors To Date

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

Chan Foundation of Canada
Cecil H. Green
Students of The University of British Columbia
Peter Wall

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

Alcan Aluminium Limited
B.C. Lottery Fund
Jack Bell
The Morris and Helen Belkin Foundation
William E. & June Bellman
Estate of Hugh M. Brock
British Columbia Telephone Company
C.K. Choi & Family (Eason Enterprises Ltd.)
Fletcher Challenge Canada Limited
Hongkong Bank of Canada and the Hongkong and Shanghai Banking Corporation Limited
IBM Canada Limited*
Vancouver Japanese Businessmen's Association - Konwakai
Keidanren
Walter C. Koerner*
L.O.M. Western Securities Ltd. & Peter M. Brown
Estate of Gladys E. Laird
The Honourable David C. & Dorothy Lam
MacMillan Bloedel Limited
The Real Estate Foundation of British Columbia
Department of the Secretary of State of Canada
The Sauder Family
Mrs. Gordon T. Southam
UBC Alumni Campaign (continuing)
Vancouver Foundation
Workers' Compensation Board
W. Maurice Young
Anonymous
Anonymous
Anonymous

\$1,000,000 to \$1,999,999 including matching funds

Alias Research Inc.
The Arthritis Society
B.C. Hydro & Power Authority
Canadian Pacific Limited
Cominco Ltd.
Curragh Resources Inc.
The Hamber Foundation
Rick Hansen Man in Motion
World Tour Society
Estate of Elsie May Harvey

Hewlett - Packard (Canada) Ltd.*
Imperial Oil Ltd.
Asa Johal
Edgar F. Kaiser, Jr.
Eugene W. King
Tong Louie & London Drugs
Maclean Hunter Limited
J.W. McConnell Family Foundation
Brenda & David McLean
Placer Dome Inc.
RHW Foundation
Robert C. Rodgers
St. Paul's Hospital Foundation
C.N. Woodward
Anonymous
Anonymous

\$500,000 to \$999,999 including matching funds

B.C. Friends of Schizophrenics
British Columbia Lung Association
B.C. Society for the Advancement of Korean Studies
Bank of Montreal
Bank of Nova Scotia
Estate of Winnifred E. Boyes
Canada Trust
Canadian Imperial Bank of Commerce
Canfor Corporation
Joan Carlisle-Irving
Cathay Pacific Airways Limited
Chan Tat Chee Memorial Fund
Mrs. Arnold B. Cliff
Energy, Mines and Petroleum and the Ministry of the Environment
Finning Ltd.
Estate of Walter H. Gage
The Heart and Stroke Foundation of British Columbia and Yukon
International Development Resource Centre (IDRC)
The Commemorative Association for the Japan World Exposition (1970)
Simon K.Y. Lee Foundation
The Law Foundation of British Columbia
Multiculturalism and Citizenship Canada
RBC Dominion Securities Pemberton
Ritsumeikan University
Royal Bank of Canada
Shell Canada Limited
Stelco Inc.
Teck Corporation
Toronto-Dominion Bank
TRIUMF
UBC Faculty & Staff Campaign (continuing)
Weldwood of Canada Ltd.
Westcoast Energy Inc.
Weyerhaeuser Canada Ltd.
Anonymous

\$250,000 to \$499,999 including matching funds

BC Gas Inc.
Clark Bentall
Canadian National
Chevron Canada Limited
Chris Spencer Foundation
Mr. & Mrs. Vicwood Chong Kee Ting
Mr. & Mrs. Ronald Laird Cliff
Dofasco Inc.
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
Kinsmen Club of Vancouver*
Michael M. Koerner*
Labatt Breweries of British Columbia
Lily & Robert H. Lee
Merck Frosst Canada Inc.
The Noranda Foundation & Noranda Forest Inc.
Northern Telecom
Northwood Pulp & Timber Ltd.
Phillips Hager & North Ltd.
Royal Trust
Sammi Group
Scott Paper Limited
Sun Life Assurance Co. of Canada
Wavefront Canada Ltd.
Western Pulp Limited Partnership
Anonymous
Anonymous
Anonymous

\$100,000 to \$249,999 including matching funds

Mr. & Mrs. K. Alston
Andersen Consulting
BC Sugar
Canadian Pacific Forest Products
Central Capital Corporation
Chinese Canadian Dental Society of B.C.
Estate of J.V. Clyne
Diachem Industries Ltd.
Du Pont Canada Inc.
Ebc Industries Ltd.
Falconbridge Ltd.
Fisher Scientific Limited
Ford Motor Company of Canada, Limited
General Motors of Canada
Glenayre Electronics Ltd.
Gordon S. Harris
Hong Kong - Canada Business Association
ICI Canada Inc.
Inco Limited
Korea Foundation
London Life Insurance Company
MacDonald Dettwiler & Associates
McLean Foundation
The Manufacturers Life Insurance Company
Molson Companies Limited
The Molson Family Foundation
Monsanto Canada Inc.
Nesbitt Thomson Inc.
Pacific Press Limited
Packard Bell Electronics Inc.
Petro-Canada Inc.
Estate of Lyle Harvey Potts
Pratt & Whitney Canada Inc.
Rayrock Yellowknife Resources Inc.
Rio Algom Limited
JC Scott Construction
The Simons Foundation
Henry S. Skinner
John M. Sieburth & Louise Anderson
Eric Sonner
David & Alice Strangway
George Chia Chi Tso
UBC Employees Society 116
Valleydene Corporation Ltd.
James B. Wallace
Senta Wong
W. Robert Wyman
Xerox Canada Incorporated
Anonymous
Anonymous

\$50,000 to \$99,999 including matching funds

Air Canada
Apotex Inc.
British Columbia Buildings Corporation

Peter J. G. Bentley
Dan & Arlene Birch
Joanne V. Brown
W. Thomas Brown
Bull Housser & Tupper
Grant D. Burnyeat
Canada Life Assurance Company
Confederation Life Insurance Company
David R. Crombie
Crown Life Insurance Company
Estate of Elizabeth Dickey
Domtar Inc.
Arthur Fouks, Q.C.
Audrey & Bruce Gellatly
David F. Hardwick
John Helliwell
Taichi Kameyama
Lafarge Canada Inc.
P. Lawson Travel
Klaas de Leeuw
Anna S. McCann
Ministry of Environment, Lands & Parks
North American Life Assurance Co.
Pacific Open Heart Society
Princeton Mining Corp.
Rogers Communications Inc.
Russell & DuMoulin
Scotia McLeod Inc.
K.D. Srivastava
William T. Stanbury
Peter & Theresa Ufford & Family

UMA Group
Western Forest Products Limited
Anonymous
Anonymous

Other Gifts

More than 13,000 individuals, corporations and other organizations have made contributions of up to \$50,000 to the World of Opportunity Campaign. Many of these donors, who include faculty, staff, alumni and friends, have been making annual contributions to UBC. Their donations comprise the mainstay of giving to the university. Their cumulative giving to the Campaign, including matching funds, totals nearly \$17 million.

Generous support has also been received from the community, faculty and alumni, including the UBC Campaign Leadership Committee and Advisory Council, the UBC Board of Governors, Campus Leadership, Chancellor's Circle and The Wesbrook Society.

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

Campaign Leadership

What a remarkable achievement! We've launched the largest campaign in Canadian history and the response has been tremendous from all sectors. We have raised \$130 million in private gifts to the campaign and some \$90 million in B.C. government matching funds. It is clear that a world class university on Canada's west coast is a vision shared by many.

The following pages provide an overview of gift opportunities and projects funded to date. We are seeking gifts to buildings and equipment, to academic endowments and to the President's Fund.

Join us and become a part of UBC's global future.

W. Robert Wyman
Campaign Chairman

Two capital campaigns that I am associated with are MIT's Campaign for the Future and UBC's World of Opportunity Campaign. Both universities are my alma maters, but that is not the only reason I agreed to serve as Honorary Chairman of their campaigns. The reason is that I like to work with the best and they are among the best.

Another leading institution I have supported is Oxford University, where I funded Green College, a residential graduate school. To build UBC as a world centre of research and teaching, I am contributing \$7 million to establish Green College, UBC. This is my legacy to a university that I and my wife Ida loved dearly.

You, too, can shape UBC's future. Whether your contribution is to an academic endowment, the library or other building project, you can share the rewards of being part of the UBC family. Together, we are builders of a great university.

Cecil H. Green
Honorary Campaign Chairman



GIFT OPPORTUNITIES

The UBC Campaign: The Final Phase

UBC needs \$32 million to complete funding for the following key building projects, centres, endowments and scholarships which are critical to the future of the university.

There are many exciting opportunities for giving in the areas of Interdisciplinary and Graduate Studies; the Arts; Humanities and Social Sciences; and Science and Medicine.

To date, there has been considerable, enthusiastic support for the remaining Campaign projects, from donors and project advisors.

Fund raising for the World of Opportunity Campaign will continue through to our Campaign victory event in the spring of 1993.

Interdisciplinary and Graduate Studies

Through UBC's extensive library system and through the establishment of institutes, centres and research groups, the university is creating bridges among the disciplines which lead to new insights, different ways of thinking and more unified understanding -- educating and training young men and women who will stand out in whatever they elect to do.

New Library Centre

· Total Goal: \$24 million

The UBC Library is one of the top research libraries in Canada and has the highest circulation rate of any library in North America. As well as providing a key resource to students and faculty, the library is an important link between UBC and the community, with non-UBC users accounting for an average of one-third of total library use. Currently, the collection is valued at nearly \$400 million, although much of it is irreplaceable.

To keep pace with rapid growth in fields of knowledge, the library adds 80,000 volumes annually, equivalent to one additional mile of storage each year. A New Library Centre will address the urgent need for more space to house the expanding collection, for new storage systems and for technology to help users obtain information easily from the library's worldwide networks.

The library centre project will revitalize and expand the UBC library within the historic and beautiful heart of the campus. The new building, designed by Aitken Wregglesworth/Arthur Erickson, will be the first phase of the long-term plan for the UBC library system.

To date, major donors to the New Library Centre include Imperial Oil Ltd., Placer Dome Inc., B.C. Hydro and Power Authority, Canadian Imperial Bank of Commerce, Bank of Nova Scotia, Shell Canada Limited, Toronto-Dominion Bank, RBC Dominion Securities, Pemberton, Canada Trust, BC Gas Inc., Mr. and Mrs. Vicwood Chong Kee Ting, Sun Life Assurance Company of Canada, Pratt and Whitney Inc. and B.C. Sugar.

Institute of Asian Research

By the Year 2000, the Asia Pacific countries will account for 60 per cent of the world's population and 50 per cent of global production. Our common future depends on our ability to work jointly on pressing ecological and socio-economic problems.

For more than half a century, UBC has recognized the importance of linkages with the Pacific Rim. Today, UBC offers more than 150 courses focusing on the Asia Pacific region taught by 63 faculty members in a wide range of disciplines.

Building on its expertise, UBC has established within the Institute of Asian Research, centres for Chinese Research, Japanese Research, Korean Research, South Asian Research and Southeast Asian Research. The enhancement of the Institute of Asian Research will prepare B.C. and Canada to play a leading role in the Pacific Century.

The Chair for the Director of the Institute has been funded fully through government matching funds and a \$1 million gift from the Hongkong Bank of Canada and the Hongkong and Shanghai Banking Corporation Limited.

Building for the Institute of Asian Research

· Goal: \$5 million

The Asian Centre is a significant component of the growing "international presence" within the university. Cultural representation by the Chinese, Japanese, Korean, South Asian and Southeast Asian communities will further strengthen UBC's extensive strengths in Asian studies.

The Asian Centre and Nitobe Garden occupy a prestigious corner of the campus in a striking British Columbian forest setting. The expansion of the centre will be a building with three primary components: space for each cultural group, common facilities, and a public interior focus providing access to the other components.

The proposed architectural design of the building will be influenced by the architectural character of the existing building and its forest garden setting. In addition, the building will allow for the individual cultural expression of its inhabitants while presenting an overall or unified image.

Centre for Chinese Research

· Goal: \$3 million

Canada's interest in China began more than a century ago with the arrival of early Chinese immigrants. Vancouver, in particular, has a large population of Chinese descent.

UBC currently offers 30 undergraduate courses in its Chinese Studies Program. In addition to a strong Chinese Studies undergraduate program, the department offers M.A. and Ph.D. degrees in Chinese literature, linguistics, pre-modern history, religion and philosophy. China-related courses are also offered through many other departments and faculties.

The Centre for Chinese Research will serve as a catalyst for intensifying the study of China, Taiwan and Hong Kong, and Canada's relationship with these areas.

The centre will comprise:

- two endowed faculty positions;
- graduate fellowships to assist students focusing on China, Taiwan and Hong Kong with travel and other costs associated with research and course work;
- a regular faculty exchange program to bring Chinese professors to UBC and facilitate UBC professors to teach and conduct research in China, Taiwan and Hong Kong.
- the expansion of library collections as needed to support advanced research.

UBC is fortunate to have received a \$1 million contribution to the centre from an anonymous donor in Hong Kong.

Project Advisors: C.V. Chen, H.T. Chow

Centre for Japanese Research

· Goal: \$3 million - FUNDED

The new Centre for Japanese Research will be a centre of excellence for research on economic, political, social and technological issues, and will promote dialogue on major issues of common concern to Japan and Canada.

Thanks to the fund raising efforts of the Vancouver Japanese Businessmen's Association (Konwakai), corporate members of Keidanren in Japan and the Government of British Columbia, the centre is fully funded. UBC appreciates the efforts of the Konwakai fund raising committee, first led by Alexander Doy and now Hiroyoshi Tsuchiya, as well as the involvement and participation of the fund raising committee in Japan.

The Vancouver Konwakai and Japan committees are also working to raise \$1 million for the renovation of **Nitobe Memorial Garden**, a classic Japanese garden designed to provide a restful setting for meditation. Fundraising efforts are underway and donations include a gift from the Commemorative Association for the Japan World Exposition (1970). UBC was honoured to have their Imperial Highnesses, Prince and Princess Takamado, in attendance at the sod turning ceremony for the Nitobe Garden refurbishment in May 1992. These renovations may also include the enhancement of the **Nitobe Memorial Garden Tea House**, for the teaching and practice of chanoyu, the Japanese tea ceremony.

Centre for Korean Research

· Goal: \$3 million

Korean studies is a relatively recent addition to UBC's Asian studies program. Specialized courses on Korea were first offered at UBC in 1982 with the sponsorship of the Korean Ministry of Foreign Affairs and later the Korean Research Foundation. The resulting five-year Korean Studies program brought one visiting Korean professor each year to UBC to teach courses in Korean language and literature. In 1986, the visiting professorship was replaced by a permanent faculty position funded through endowments from Canada and the Republic of Korea, in co-operation with the Korean Consulate General in Vancouver.

The new Centre for Korean Research will intensify UBC's focus on Korea and Canada-Korea issues. It will develop research projects, organize interdisciplinary research seminars, lectures and conferences; facilitate the exchange of outstanding scholars; and expand scholarly opportunities for graduate students.

The centre will comprise:

- two endowed chairs to carry out research and teaching on Korea and develop courses in Korean Studies;

· fellowships to assist graduate students with travel and other costs associated with research and course work on Korea and Canada-Korea issues;

· a faculty exchange program to bring Korean professors to UBC and send UBC professors to Korea to teach and conduct research;

· the expansion of library collections to support advanced research.

Fund raising for the Centre for Korean Research is off to an excellent start. The Sammi Group in Korea has contributed \$200,000, the Korea Foundation has donated \$100,000 and the B.C. Society for the Advancement of Korean Studies has raised \$330,000 from the Vancouver community of Canadian-Koreans.

Project advisors: H.C. Kim, Robert Ferchat, Mr. and Mrs. Chang Sik Choi, Kyu Won Hwang, Hyung H. Kim, Soo Il Kim, Jin H. Kim, Yun Chong Kim, Dr. Seong Soo Lee, Dr. Young Suk Moon, Do Young Oh, Peter U.I. Oh, Jong Young Park, Dr. Jong Won Park, Dr. Doo Ho Shin, Yang Jun Shin, Dr. Tae Hoon Oum

Centre for South Asian Research

· Goal: \$3 million

Economic and cultural relations between South Asia and Canada began more than a century ago, with early immigrants from India. Vancouver, in particular, has a large community of South Asian background and/or ethnic origin.

South Asia has played an important part in the history and development of Asian studies at UBC. With the first course introduced in 1943, interest in South Asia at UBC went through a growth period in the 1960s. The combination of interdisciplinary courses together with South Asian literature, pre-modern history and language courses led to the introduction of an undergraduate major and graduate specializations.

The new Centre for South Asian Research will intensify UBC's focus on South Asia (India, Pakistan, Nepal, Bhutan, Sri Lanka and Bangladesh) and on Canada-South Asia issues. It will comprise:

- two endowed chairs to carry out research and teaching on South Asia and to be involved in developing courses on South Asia;
- fellowships to assist graduate students with travel and other costs associated with research and course work on South Asia and Canada-South Asian relations;
- a faculty exchange program to bring South Asian professors to UBC and send UBC professors to South Asia to teach and conduct research;
- the expansion of library collections to support advanced research.

**Centre for Southeast Asian Research**

· Goal: \$3 million

UBC started offering courses on Southeast Asia in the early 1960s. Courses are offered now through various UBC faculties, schools and departments: Anthropology & Sociology, Asian Studies, Commerce, Community and Regional Planning, Economics, Geography, History, Political Science and Religious Studies. In 1988, an undergraduate specialization in Southeast Asian studies was developed.

The new centre will intensify UBC's focus on Southeast Asia (Indonesia, Malaysia, Singapore, Thailand, Philippines, Brunei, Myanmar, Kampuchea, Laos and Viet Nam) and on Canada-Southeast Asia issues. It will comprise:

· two endowed chairs to carry out research and teaching on Southeast Asia, and to be involved in developing courses in Southeast Asian studies;

· fellowships to assist graduate students with travel and other costs associated with research and course work on Southeast Asia and Canada-Southeast Asia relations;

· a faculty exchange program to bring Southeast Asian professors to UBC and send UBC professors to Southeast Asia to teach and conduct research;

· an expansion of library collections to support advanced research.

Project advisors: Timothy Seow, Tan Yam Pin

Disability Resource Centre

· Goal: \$6 million

Spearheaded by Rick Hansen, the Disability Resource Centre will work to ensure that all students, faculty, staff and visitors can benefit from what UBC has to offer. The centre will coordinate campus services and act as a community resource for people with disabilities.

The centre is the first of its kind in the world and will be active in establishing networks nationally and internationally. It will feature six components: research, advocacy, service, access, information and employment.

Gifts from the B.C. Lottery Fund, the Vancouver Foundation, Ford Motor Company of Canada Limited and Imperial Oil Limited have helped to launch this project.

Project advisor: Rick Hansen

First Nations Longhouse Enhancements

· Goal: \$900,000

Since the 1970s, UBC has been working to increase the representation of First Na-

tions students on campus through programs such as the Native Indian Teacher Education Program, the Native Law Program, the First Nations Health Care Professions Program and the Ts'kel Graduate Program at the First Nations House of Learning. Currently, there are approximately 250 First Nations students at UBC, primarily in the Faculties of Education and Law. That figure is expected to reach 1,000 by the next decade.

The First Nations Longhouse will be the first west coast longhouse constructed as an integral part of a university campus. It will be the focus of First Nations student activities at UBC. The longhouse will give First Nations students a home on campus, a place where they can study and learn in surroundings that reflect their culture and heritage.

Through major contributions from Jack Bell and June and Bill Bellman, and through the B.C. Government Matching Program, construction of the longhouse is underway.

There remain several excellent funding opportunities to support the completion of the longhouse. They include: carved "house posts," integral to the structural design of the Great Hall; the Sacred Circle - a circular structure which would be used as a spiritual sanctuary and as a quiet retreat for rest and reflection; an Elders' Place to include First Nations Elders in the day-to-day existence of students' lives; a First Nations Plaza and Kekuli House; and a Day Care Centre.

Project advisors: Simon Baker, Minnie Croft, Phillip Hogan, Verna Kirkness, Stephen Point, Alfred Scow, Joan Scow, Vince Stogan, Alfie Waugh, Victor Jim, Jim White, Allan Clapp, Geraldine Glattstein

Green College Endowment

· Goal: \$4 million

If Canada is to play a strong role in the global community, our universities must continue to participate in original research across disciplines.

UBC will build upon its research strength by creating a residential graduate college named for Honorary Campaign Chairman Cecil Green, who contributed \$7 million to the project. The endowment fund, established with a major gift from the Estate of Ida Green, will provide fellowships and operating funds for the college.

The President's Fund Faculty and Staff Endowment

· Goal: \$2 million

The President's Fund Faculty and Staff Endowment provides an opportunity for donors to support a particular faculty initiative.

Donors may direct their gifts into endowment funds, which will be eligible for matching funds, for projects selected

by faculty and staff, such as library acquisitions, scholarships, professional development, research projects, community seminars and other initiatives. In consultation with faculty committees, deans approve the priorities for the endowment.

Projects which have been initiated through the Faculty and Staff Endowment include a psychology lecture fund, graduate scholarships for interdisciplinary students, statistics fund for excellence, Anatomy Department endowment fund, and a seminar series for sustainable development.

By providing flexibility at the faculty and department level, Faculty and Staff Endowment funds will strengthen UBC's ability to respond to change and pursue innovation.

Project advisor: Dennis Pavlich

The Arts

UBC is proud of its achievements in the Arts and has turned out many stars and success stories. Hundreds of graduates have careers that are artistically rich and rewarding. They contribute immeasurably to the lives of their communities and to the enhancement of our culture.

Through the UBC Campaign, the university is re-affirming former President Norman MacKenzie's vision of a centre for music, theatre and the visual arts at UBC. UBC's friends share this commitment to enhancing British Columbia's achievements in the Arts and have demonstrated that commitment by funding the Chan Centre for the Performing Arts and the Morris and Helen Belkin Art Gallery.

Final planning is underway for the completion the university's major arts initiatives, to include facilities for film, theatre and fine arts.

Art Gallery Endowment

· Goal: \$3 million

The new art gallery, funded by the Morris and Helen Belkin Foundation, will promote understanding and discussion of contemporary art and issues in art history, criticism and curating.

The Art Gallery Endowment will finance exhibitions, guest lectures, operating expenses, research, community programs and other activities.

It will complement endowments established through the Campaign which will enhance UBC's and the province's achievements in the creative and performing arts: the **David and Brenda McLean Endowment for the University Singers**; the **Brenda McLean Endowment in the Creative and Performing Arts**; and the **Chan Endowment Fund for the Performing Arts**. In addition, the **Joan Carlisle**

Irving Artist-in-Residence and the Arnold and Nancy Cliff Writer-in-Residence programs will bring noteworthy professionals, known for their outstanding work, to share their expertise with UBC students, faculty and members of the community; and a **Travelling Research Fellow in Art History** will expand UBC's graduate programs in art history, the most comprehensive in Canada, to allow students to travel to major museums and archives to study art and architecture.

The School of Music - Equipment and Endowment

· Goal: \$1 million

For more than four decades, the School of Music at UBC has assumed an increasingly important role in Canadian music education. Its importance is felt not only in the west, where it is the largest and most prestigious school of its kind, but also on a national and international scale. Notable alumni include Metropolitan Opera stars Judith Forst and Ben Heppner, Juno award-winning composer Michael Conway Baker, and pianist Jon Kimura Parker.

Building on its existing strengths, the School of Music is working to establish a fund of \$1 million to provide for present requirements and future needs. As part of the school's emphasis on enriching the lives of students, faculty and the community, \$700,000 of the fund will be allocated as an endowment to enable the school to bring to campus a wide variety of distinguished concert artists, composers, and scholars as musicians-in-residence, to give concerts and master classes.

With the forthcoming construction of the Chan Centre for the Creative and Performing Arts, a \$300,000 purchase fund will be established for the acquisition of greatly-needed musical and electronic instruments.

Project advisors: David Lemon, Robert Silverman

Humanities and Social Sciences

UBC graduates from the humanities and social sciences have achieved distinction in public life, commerce, academia and social service.

The Campaign is creating new opportunities for research in a wide range of areas, including international studies, women's studies, and emerging social issues.

Chair and Endowment in South/North Studies

· Goal: \$1.5 million

The future of Canada and other industrialized countries will

increasingly be influenced by events and trends in the Southern Hemisphere. Population growth of 9,000 per hour, carbon accumulations of 11,000 metric tonnes per minute, political instability and growing export dependency are some of the factors linking countries in the South with those in the North.

The South/North Studies program is the first in North America dedicated to this sector of study and enquiry. The establishment of a chair will ensure the university's ability to attract a scholar of broad international experience and reputation, able to encourage and coordinate interdisciplinary, co-operative research, worldwide. The International Development Resource Centre (IDRC) has made a major contribution to the chair.

Project advisor: Ivan Head

American Studies Endowment

· Goal: \$1 million

Canada and the United States share a commitment to democracy, federalism and human rights. The two nations are also each other's largest trading partners.

The American Studies Endowment will help to increase Canadian understanding of the United States government and political system. It will foster research, collaborative programs and joint projects on issues of common concern.

Project advisors: Ken Carty, David Elkins

Centre for Research in Women's Studies and Gender Relations

· Goal: \$2 million

The area of women's studies has been well established over the last two decades, not only as an exciting and important interdisciplinary field of inquiry, but also as an essential academic avenue to gender equality in society.

The Centre for Research in Women's Studies and Gender Relations will provide interdisciplinary links to foster research in the field, develop a graduate program in Women's Studies and Gender Relations and collaborate with the community in developing new resources and expertise.

Project advisor: Veronica Strong-Boag

Chair in Women and Law

· Goal: \$1 million

Research and teaching about the impact of the legal system on women has had a direct impact on legal changes leading to greater



equality for women in Canadian society.

The Chair in Women and Law will strengthen the teaching and research base in feminist legal studies already established in UBC's Law Faculty and will increase sensitivity to gender bias in the substance of the law and the judicial system. UBC's chair will be one of the first of its kind in Canada.

Project advisors: Risa E. Levine, Virginia Beirnes, Hamish C. Cameron, J. Thomas English, Haig deB. Farris, William E. Ireland, Q.C., Norien A. MacDonald, Alison E. MacLennan, John D. McAlpine, Q.C., Terry Myers, Kathryn E. Neilson, Q.C., Sandra D. Sutherland, Q.C., Kenneth Bagshaw, Q.C., Wendy Baker, Q.C., Rosemary Brown, Q.C., Peter Burns, Q.C., J.J. Camp, Q.C., The Hon. Mary Collins, George Curtis, Q.C., Arthur Fouks, Q.C., E.N. Hughes, Q.C., The Hon. Frank Iacobucci, Peter Leask, A.J. McClean, The Hon. Beverley McLachlin, The Hon. Nathan T. Nemetz, C.C., Q.C., Mr. Alex C. Robertson, Q.C.

Science and Medicine

To increase the momentum of scientific and medical discovery and application, the UBC Campaign is enabling the university to expand into new and emerging academic areas.

In the sciences, discoveries at UBC have led to the formation of more than 80 spin-off companies and UBC grads have achieved success as business executives, academics and research scientists in government and industry. In the health sciences, UBC's research and teaching has led to treatments and procedures that have dramatically improved the quality of life for thousands of people.

Chair in Audiology and Speech Sciences

· Goal: \$1 million

Hearing loss affects people of all ages, but is particularly troublesome for those over 65 where hearing loss affects 85 per cent of the population.

The Chair in Audiology and Speech Sciences will enable the School of Rehabilitation Medicine to intensify its research and teaching in the assessment and rehabilitation of hearing disorders. Audiologists, psychologists and linguists will study the consequences of hearing loss on language use to determine the most effective ways to enhance communication. A major gift has been made to the chair through the Estate of Lyle Harvey Potts.

Project advisor: Dr. Judith Johnston

Heart and Stroke Foundation Chair in Cardiology

· Goal: \$1 million

Cardiovascular diseases are the most common causes of death in Canada and account for more than 50 per cent of all deaths each year. Research into the causes, progress, treatment and prevention of cardiovascular diseases is essential if we are to prolong and improve the quality of life.

The establishment of the Heart and Stroke Foundation Chair in Cardiology will complement the strong heart research programs at UBC and provide a focus for cardiovascular research throughout the Faculty of Medicine. The Heart and Stroke Foundation of British Columbia and Yukon is a major contributor to the chair.

Project advisors: Dr. Victor Huckell, Dr. Charles Kerr, Bud Boyer, Richard Rees, Roger Rowley, Grant Towes

Stephen Drance Chair in Ophthalmology

· Goal: \$1 million

UBC's Department of Ophthalmology is a North American leader in the research and treatment of eye disease. The department's strengths include research into glaucoma and diabetic eye disease, and refractive surgery.

With its unique clinical location in the Eye Care Centre, the Chair in Ophthalmology will bridge the gap between basic and clinical sciences. It will be named in honour of Stephen Drance, OC, a guiding force in the department. Gordon S. Harris and his colleagues in the field of ophthalmology, and Mr. and Mrs. K. Alston have major contributions to the chair.

Project advisors: Dr. Jack Rootman, Dr. Fred Mikelberg, Dr. Gordon Douglas

Professorship in Health Services and Policy Research

· Goal: \$250,000

The Canadian health care system is among the best in the world, providing care to all Canadians regardless of socio-economic status. However, in the face of rapidly changing and increasingly expensive technology, high labour costs, dramatic demographic changes and the emergence of chronic illness as the most prevalent form of disease, the cost of maintaining a high quality system has become a critical concern.

The Professorship in Health Services and Policy Research will serve as a focus for research, database development and consultation in the areas of health policy and health services research and will complement educational programs within the university.

Project Advisor: Dr. Morris Barer

Professorship in Health Promotion

· Goal: \$250,000

Health care has traditionally focused on treatment rather than prevention. The Professorship in Health Promotion will examine how environmental, lifestyle, social and economic factors affect health.

Research will be directed at developing methods for promoting health through education and behaviour modification. The Manufacturers Life Insurance Company has made a generous contribution to the professorship.

Project advisors: Larry Green, Sue Hills

Pharmaceutical Mass Spectrometer

· Equipment Goal: \$500,000

Although it is generally recommended that women avoid taking any medication during pregnancy, sometimes a medical need - such as an allergy attack, epilepsy, premature labor or complications in pregnancy - means prescription or over-the-counter medication is required. But, because of insufficient information, doctors and patients are unable to properly assess the risk of taking the drug against the benefit it might provide.

The acquisition of a mass spectrometer will provide UBC's specialists in pharmaceutical sciences, obstetrics and paediatrics with state-of-the-art technology to lead the investigation of drugs in pregnancy and children.

Project advisors: Dr. Jim Axelson, Dr. Frank Abbott

Chair in Fisheries Oceanography

· Goal: \$1 million

Traditionally, fisheries and oceanography have evolved as separate disciplines. Recent innovations such as satellite technology and ecosystem computer models are demonstrating the relationship between changes in ocean climate and the abundance of fish.

The Chair in Fisheries Oceanography will allow a senior scientist to undertake research on the development of fish stocks vital to the fisheries industry. An anonymous donor has made a major contribution to the chair.

Project advisors: Richard Nelson, Paul Leblond

Gobind Khorana Chair in Biological Chemistry

· Goal: \$1 million

A former professor at UBC, Gobind Khorana received the Nobel Prize for his work in interpreting the genetic code.

His accomplishments exemplify the achievements possible in interdisciplinary research.

The Gobind Khorana Chair will foster research in biochemistry, chemistry, biotechnology and biomedicine. To date, there have been several donations and widespread support for the chair from colleagues of Prof. Khorana, and major contributions from ICI Canada Inc. and an anonymous donor.

Project advisors: Gordon Tener, Lawrence Weiler, Jack Campbell, Robert C. Miller

Chair in Plant Biotechnology

· Goal: \$1 million

Plants are the bases of every major ecosystem and provide food, shelter and medicine for humankind. Recent developments have moved UBC to the forefront in biotechnology.

The Chair in Plant Biotechnology will focus on the study of plants at the molecular, cellular and population level with the goal of understanding and manipulating plant growth in changing environments. The chair will provide senior leadership in plant biology at UBC. John M. Sieburth & Louise Anderson have made a major contribution to the chair, in memory of their father, H. Sieburth.

Faculty advisor: David Turpin

Chair in Biomedical Ethics

· Goal: \$1 million

Industry's effect on genetic engineering, the extension of human life and control over reproduction are complex issues facing today's society. A Chair in Biomedical Ethics will enable UBC to stimulate exploration of ethical questions in medicine, and will enhance the program of the Centre for Applied Ethics.

Chair in Computer Integrated Design and Construction

· Goal: \$1 million

UBC's new Computer Integrated Design and Construction (CICSR) - Computer Sciences building, which currently is under construction, will provide a central location for the university, industry and government to collaborate on innovative research to stimulate B.C.'s high technology industry. The benefits of this work will be reflected in the economy, as the province continues to move toward an economy based on technological advances.

The Chair in Computer Integrated Design and Construction will support the efforts of the Centre for Integrated Computer Systems Research in stimulating growth and collaboration in the province's burgeoning high technology industry. The Real Estate Foundation of British

Columbia and JC Scott Construction have made major contributions to the chair.

Chair in Mining and the Environment

· Goal: \$1 million

Acid mine drainage, which can have a detrimental impact on water quality, is one of the most serious environmental concerns facing the mining industry. In B.C., representatives of the mining industry and the federal and provincial governments are supporting research efforts which will ensure the safe removal of minerals through mining exploration.

Through the Chair in Mining and the Environment, UBC will engage in research to predict, prevent, control, treat and monitor acid rock drainage in order to minimize the environmental impact of mining and mineral processing. Energy, Mines & Petroleum and the Ministry of the Environment, and the Cy and Emerald Keyes Charitable Foundation have contributed major funds to the project.

Beyond the Campaign: Fund Raising at UBC

The fundamental groundwork established through the World of Opportunity Campaign will provide the impetus for continued fund raising, based on university and faculty priorities.

The following are projects which have well-developed proposals and strategies for continued fund raising. (Where applicable, funds raised through the Campaign will be applied to these projects.)

A Creative Arts Facility will be developed as phases two and three of UBC's major creative arts initiative. (Phase one for the development of a music wing of the Chan Centre for the Performing Arts has been funded.) The remaining phases will fund facilities for theatre, film and fine arts.

The establishment of an Islamic & Arabic Studies Endowment will enable UBC to acquire additional library resources, fund visiting scholars and provide opportunities for UBC scholars to visit institutions specializing in Islamic and Arabic studies.

Nursing research examines the interrelationship among health, illness, human behaviour and the environment. The Elizabeth Kenny McCann Chair in Nursing Practice and Research will examine how factors such as ethnicity, aging and family functioning affect health care.

With a large population of Dutch extraction, British Co-



lumbia has a special interest in Netherlandic Studies. UBC scholars currently pursue Dutch studies through the departments of History, Asian Studies and the Faculty of Law. A Netherlands Studies Endowment will enable UBC to increase understanding of the Dutch language and culture and promote greater interest in contemporary issues in the Netherlands.

One out of eight Canadian adults cannot read or write. Not only does illiteracy impair quality of life, it affects national productivity. A Centre for Literacy and Technology will focus on research that simplifies literacy acquisition and increases the ability to adapt to a rapidly changing workplace and society. Pacific Press Limited has made a major donation to the centre.

Through a Media and Graphics Interdisciplinary Centre (MAGIC), UBC will pioneer the use of computer graphics, digital sound and other multimedia technology across a range of disciplines. To date, \$4 million has been committed to the establishment of MAGIC. Generous gifts have been received from IBM, Alias Research Inc. and Wavefront Canada. Additional funding is needed for equipment and endowments.

In an age of expanding information, journalists require more than technical writing abilities. Specialized knowledge and sophisticated research skills are becoming fundamental to reporting. UBC proposes to establish a School of Journalism, a graduate program aimed at developing critical and investigative skills.

Fundamental changes in international trade relations, coupled with advances in food processing, have given a new urgency to problems of food marketing and food quality. UBC proposes to take a leadership role in this area with the establishment of a Food Research Centre. Molson Companies Limited has made a contribution to the centre.

The cost of maintaining a quality health care system has become a critical concern in the face of rapidly changing technology, higher labour costs, demographic changes and the extension of the human lifespan. A Centre for Health Services and Policy Research would address these and other health care issues, with a cross-disciplinary perspective.

A Judaic Studies Endowment will serve as a focal point for enhancing Judaica at UBC. Through the endowment, visiting scholars would deliver lectures within the university and to the general community. In addition, new courses would be developed, such as Jewish Law

and Ethics, and studies on Jews and Judaism in central and eastern Europe.

There are few educational programs in Canada designed to prepare leaders in oral health care for older patients. The establishment of a Chair in Geriatric Dentistry is a major clinical and research effort to understand the effect of aging on oral tissues, improve diagnostic procedures for oral cancer and other oral lesions, and develop new materials for dental restoration.

Information technology is expected to become British Columbia's second largest industry during this decade. A Chair in Computer Engineering will enhance the ability of UBC's Department of Computer Engineering to educate more students. General Motors has made a contribution to the chair.

Other projects and proposals are being developed for a 1993-97 Case Statement that will be assessed for faculty and university priority and for feasibility on an annual and continuing basis.

Recognition Program

One of the goals of the World of Opportunity Campaign is to strengthen relationships between UBC and the community it serves. Our friends and partners provide not only resources, but also new ideas for building a strong institution that will lead British Columbia and Canada into the next century. We will express our appreciation for these important contributions through an innovative program that offers donors a special place within the UBC family, and public recognition where desired.

Through the University Matching Program, the Government of British Columbia has committed to providing some \$90 million by 1996 to match private campaign contributions. To date, UBC has received \$40 million in matching funds. The remainder of the funds will be used to match pledge payments and further donations to specific projects listed in the Gift Opportunities section of this Case Statement.

World of Opportunity Honour Roll

Donors who give \$5,000 (recognition value \$10,000 with match) or more to the campaign will receive prominent and permanent recognition on the UBC campus. A grand honour roll will list the names of these donors. Striking

in design and centrally located, the grand honour roll will provide a lasting tribute to the generosity of UBC's partners and friends during the World of Opportunity Campaign.

Donors will be listed on the honour roll according to the following gift categories:

Total Recognition Value of Gift (including matching funds)

- \$10,000,000 +
\$2,000,000 - 9,999,999
\$1,000,000 - 1,999,999
\$500,000 - 999,999
\$250,000 - 499,999
\$100,000 - 249,999
\$50,000 - 99,999
\$20,000 - 49,999
\$10,000 - 19,999

Building Recognition

In addition to being named on the grand honour roll, donors who contribute \$10,000 (recognition value \$20,000) or more to buildings will be recognized on a donor wall or other architectural feature in the facility. Those who donate \$125,000 or more may have a room, study space or other area named in their honor.

Endowment Recognition

Academic chairs may be named in honour of the donor who contributes \$500,000 (recognition value \$1,000,000) or more to the endowment. Professorships may carry naming for gifts of \$125,000 and above. Naming is subject to Senate approval.

Plaques for newly created chairs and professorships will appear in the appropriate faculty building, listing the major donor as well as other donors who contributed \$10,000 or more to the project.

The President's Fund Recognition

Giving to the President's Fund has provided a special opportunity for alumni and friends. Through a matching program of the Vancouver Foundation and the Government Matching Program, individual gifts to the Opportunity Endowment in the President's Fund have multiplied four times in value to UBC. Where a corporate matching program exists, donations have multiplied eightfold.

The Scholarship Endowment benefits students registered in any faculty, with allocations for First Nations students, women and students with disabilities. Gifts to the Scholarship Endowment have doubled in value through government matching. Donors are recognized for the full amount.

All corporate gifts and major individual gifts to either endowment have doubled through the government match, with full recognition for the matching portion.

A major plaque naming donors to the President's Fund will be mounted in a prominent area near the President's Office.

Media Recognition

Donors will be listed in campaign and university publications unless they request anonymity. Gifts of \$125,000 (recognition value \$250,000) or more will be recognized through news releases and feature articles.

Opportunities for Involvement

UBC welcomes donor participation in the World of Opportunity Campaign and will make every effort to ensure donors benefit from a significant and enjoyable relationship with the university—its people, places and programs. We will maintain contact with donors through university publications and invitations to special events. Donors will have access to theatre and music performances, academic lectures, community conferences, athletic events, gardens, museums, libraries, art galleries, travel programs and university events.

With the support of friends and alumni, UBC is creating a world of opportunity for students, faculty, industry, government and the community. We want to ensure that our partners have opportunities to participate in the life of the university they have helped to build.

Ways of Giving

Outright Cash Gifts and Pledges

Contributions to the World of Opportunity Campaign are most often made in the form of cash. Pledges may be made over a five-year period, normally commencing in the year the pledge is made or on a schedule convenient to the donor. Donations to UBC, as a registered charity, generate a tax credit which may be applied against a maximum of 20 per cent of taxable income and can be carried forward for up to five years.

Donations are placed into a trust account, where interest is held for one year. Interest income is used

to finance campaign expenses.

Gifts of Property

Gifts of property may give donors even greater tax advantages. Donors considering gifts of equipment or collections, life insurance, securities, real estate or other such gifts should contact the Planned Giving Unit of the Development Office.

Gifts to Funded Projects

Donors who wish to support campaign projects that are fully funded can still do so and receive recognition for their gift. Their donation will displace B.C. government matching funds applied to the project. The government matching funds will then be applied to the area of greatest need within the campaign.

The UBC Foundation

When planning a major contribution, donors should consider giving through The UBC Foundation. As an agent of the Crown, the Foundation issues a tax receipt which may be applied against 100 per cent of taxable income. Any unused portion of the receipt may be carried forward up to five years. For assistance, contact the Planned Giving Unit of the Development Office.

International Giving

Many UBC alumni and friends living in Canada, the United States or other countries have assets located in the United States. The American Foundation for UBC is a charitable foundation incorporated in the United States, and issues tax receipts which may be used to reduce United States income tax.

Similar options are available in a number of countries around the world to grant tax relief to citizens who may wish to make donations outside their own country. For example, donors in Japan who contribute to UBC can make their gifts through the Council for Better Corporate Citizenship in Japan. This body then issues tax receipts that can be used to reduce taxes.



For further information, donors should contact the Planned Giving Unit of the Development Office.

UNIVERSITY OF BRITISH COLUMBIA

CONFLICT OF INTEREST



- Supervising faculty or staff members use University students or staff on University time to carry out work on behalf of a company in which they have a significant interest.

- University resources, space or facilities are used by a faculty or staff member to benefit a private concern in which the individual has a significant interest.

- Charges for use of the University's specialized laboratories or equipment which are differential for outsider organizations, may lead to allegations of favoritism.

To protect the University, full disclosure in advance of any potential conflict of interest and, where appropriate advance approval, is necessary. Any member of the University community with a potential conflict of interest shall disclose in writing the details to the administrative head of the unit in which they work, with a copy to the next level up and the Vice President Research.

PAYMENT OF RESEARCH HONORARIA:

Honoraria to full-time members of faculty or staff for services rendered to departments other than departments of which they are members, will normally not be granted if the payment comes from University funds. In exceptional cases, payment of such honoraria may be allowed, subject to the approval of the appropriate Deans, the Office of the President and the Board of Governors. This does not apply to honoraria paid to full-time members of faculty or staff from funds specifically provided for the purpose (e.g. stipends for extra-session and continuing education teaching).

Research contracts between the University and contracting agencies involving honoraria paid to members of faculty or staff shall be approved by the Office of the President (Research Administration) only on the recommendation of the Dean of the Faculty, with the approval of the Head of the Department. If so recommended, the Research Administrator is authorized to sign such contracts on behalf of the University, provided that the total of all honoraria paid to the faculty or staff member from all sources (contracts, grants, etc.) does not exceed two-twelfths of the member's salary during the appointment year (July 1 to June 30). Proposals for research contracts which involve honoraria exceeding this amount shall be forwarded by the Dean of the Faculty to the Vice President Academic & Provost for consideration.

The Research Administrator shall forward to the Vice President Academic & Provost at the end of each month a list of all research contracts which involve honoraria to members of faculty.

Faculty and staff members select the method of receiving an honorarium from the following options in advance of any payment being made:

(a) Honoraria may be accepted for an individual's personal use and are then to be considered as income, are included in the individual's T4 slip for income tax purposes, and are paid through the Payroll Section of the Department of Financial Services. The procedure for initiating this payment is:

(i) A memo requesting payment, indicating its purpose and the account number to be charged, signed for approval by both the administrative head of the unit and one additional level above, is sent to Faculty Records in the Office of the Vice President Academic & Provost. When a payment is to be made by another Faculty, the signatures of both deans are required.

(ii) Payments may be requested in monthly instalments or in one or more lump sums.

(b) Faculty or staff members may decline the honorarium for personal use, but may wish to use it for research, for a donation to the University or for other University activities. A member may also direct monies received for consulting or other professional fees to a University account. The individual makes a written request for a separate account to be established, approved by the Director or Head and Dean (Dean only in non-departmentalized Faculties and Director and Vice President for in non-academic units).

The authority for establishment of accounts to be used to promote research is the Research Administrator. For accounts to be used for any other University activities, the authority is the Vice President Administration and Finance. In all cases, a description of the purpose of the account must accompany requests for these transfers. The request is approved by the Department Head and the Dean. Signing authority is in the name of a person senior to the grantee. Expenditures from such accounts are consistent with regulations concerning University accounts. In particular, these accounts shall not be used, directly or indirectly, for expenditures that provide personal or private benefits to the donor or to any other person.

EXTRA - UNIVERSITY ACTIVITIES

Full-time appointments involve a year-round (except for the vacation period) commitment to teaching, research, service, support activities, and participation in the life of the University.

OUTSIDE PROFESSIONAL ACTIVITIES (INTRODUCTION):

Outside professional activities are extra-University activities which involve the same kind of specialized skills and knowledge that the

faculty or staff member practices in the employ of the University, and are at the cutting edge of the field or discipline. Activities such as volunteer work, community work and the running of businesses not related to work done at the University are normally not considered outside professional activities.

The University recognizes that the competence and effectiveness of faculty and staff may be enhanced by their participation in certain kinds of outside professional activities. For example, they can contribute to the professional development of the individual through the acquisition of new skills, external contexts and techniques or provide additional opportunity for application of knowledge to practical situations, and thus increase the individual's effectiveness in teaching, research, service and support endeavours. They can also open up academically-relevant opportunities for graduate students.

Furthermore, such participation frequently advances the purpose of the University in serving the needs of the larger community which it is a part through fostering the transfer and application of knowledge.

Yet, extra-University activities may produce consequences that are not to be measured merely in terms of hours expended. The distraction of non-University occupations, the expenditure of emotional energies, the obligations contingent on accepting external fees and salaries may all interfere in the proper discharge of the primary University duties.

The essential principle of the University's policy on outside commitments to tasks outside the responsibilities of faculty or staff members to the University - that is their responsibilities to students, the discipline, colleagues, service and support - must be such that their University responsibilities are completely satisfied.

OUTSIDE PROFESSIONAL ACTIVITIES, MEMBERS OF FACULTY:

Faculty members shall disclose in writing the extent, nature, and timing of all outside professional activities to the administrative head of their unit annually so that the individual's obligations and the extent of those obligations to outside organizations are known by the University.

Prior written approval of the University (granted by the administrative head of the unit) is required in the following cases:

(i) when University services and facilities will be used for outside professional activities, except when such uses are already provided for in existing regulations of the University, Faculty or Department (such as approved secretarial assistance for a faculty member editing a journal); this approval may be given provided appropriate arrangements for such uses and for their payment (including reimbursement at fair rates for labour, materials, equipment and space) are made;

(ii) when rescheduling of activities (e.g. classes or office hours) will result;

(iii) when the total outside professional activity for a faculty member in any one year becomes substantial, that is, more than an accumulated 26 days per year, exclusive of vacation period. (Subject to approval by the President, Departments or Faculties may formulate their own definition of "substantial" and formulate more detailed procedures on outside professional activities, consistent with these university-wide procedures, concerning the distinction between paid and unpaid professional activity, participation in continuing education courses, the procedures for reporting outside professional activities, and other matters.)

(iv) when a faculty member will be off campus for a period of 30 consecutive days (excluding holidays);

(v) when outside professional activities are increased during a period of study leave.

zations and leaders. There is also the concern that duty imposed by membership on the board of another organization could conflict with a faculty or staff member's duty to the University.

Unless appointed as a representative of the University, and recognized and recorded as such by the University, a faculty or staff member serving on the board of an outside organization does so in his or her individual capacity.

A faculty or staff member approached to serve as a member of a board, whether of a for-profit, charitable, or advocacy organization, has the duty to consult in advance of acceptance with the department head and dean (or vice president in the case of a non-departmentalized faculty or administrative department, or President in the case of a vice president, or Chairman of the Board of Governors in the case of the President). Such consultation will address the interests of the University, as well as the benefit that might accrue to the individual, the University and the outside organization from such membership. Following consultation, any concerns of administrators about the board membership will be conveyed in writing to the member.

FINANCIAL AND NON-FINANCIAL GAIN

ACCEPTANCE OF GIFTS ETC.:

Acceptance of gifts, entertainment, travel, and services for personal use from people or companies who do business with the University could impede the objectivity of faculty and staff members and create a conflicting obligation to that person or company contrary to the obligation of faculty and staff members to UBC.

For this reason, it is incumbent on the individual faculty or staff member to initiate a discussion with the administrative head of the unit if feasible whenever the individual is about to be offered gifts, entertainment, travel, or services of significant value so that the issues surrounding obligation may be completely disclosed and approval obtained before a personal benefit is received. It is recognized that there will be circumstances in which individuals will have to decide at a moment's notice whether or not to accept a gift. In these cases, individuals are to consult with the administrative head at the earliest possible opportunity. Administrative heads of units, in considering requests, will take into consideration the source, value, purpose and frequency of offering in assessing the case. Any potential detriment to the University should be grounds for denial of the request to receive a gift. Tokens of appreciation of insignificant value may be accepted at the discretion of the individual.

OUTSIDE PROFESSIONAL ACTIVITIES, MEMBERS OF STAFF:

Prior written approval of the University (granted by the administrative head of the unit) is required whenever a member of staff wishes to engage in outside professional activities during normal hours of work.

ACTIVITIES NOT RELATED TO THE MEMBER'S PROFESSION:

Activities of a non-professional nature (such as running a business, or performing voluntary or community work), which do not enhance the competence and effectiveness of faculty and staff members in their work at the University, will neither interfere in any way with their commitment to full-time employment at the University nor use any resources of the University.

DIRECTORSHIPS AND MEMBERSHIPS IN BOARDS

There are many benefits to be gained by both the individual and UBC from a faculty or staff member's active involvement in community service activities. Such activity enhances the community's awareness of the contribution UBC makes to our society, while providing opportunities for many and varied linkages of members with business and philanthropic organi-



CONFLICT OF INTEREST

BUSINESS DECISIONS:

A conflict of interest appears to exist when faculty and staff members take part in decisions to transact UBC business with a company in which they have a material interest. Therefore, the responsibility rests with individuals to disclose whenever they have influence over a decision about a proposed contract between UBC and a company in which they have substantial holdings and to withdraw from the UBC decision-making process.

BORROWING EQUIPMENT:

UBC equipment, materials, supplies and services are for University use and not for the personal use of members of faculty or staff. Normally, departments do not lend out equipment. When borrowing of commonplace equipment is permitted, it must not impede the operation of UBC functions in any way and the head of the administrative unit is to determine in advance the amount of charge, taking into account depreciation, to be applied as a rental.

The University owns many pieces of large-scale, specialized equipment not available elsewhere in the province. As a service to the community, use of this equipment may be arranged at the administrative unit's discretion, provided that such use does not interfere with the activities for which the equipment was acquired, that appropriate supervision of the use of the equipment is arranged, that the borrower purchase insurance (not only for the physical asset during the period of the loan but also for liability for the equipment's operation, naming UBC on its policy as an additional insured), and that rental is charged at established rates (taking into account depreciation and rates reflective of the value of the equipment's use).

CLIENT SOLICITATION:

Many faculty and staff members are remunerated for consultation in their professions, and to avoid the appearance of conflict of interest, should refrain from soliciting clients for private practice through connections at the University. This applies not only to government agencies, private companies and the public, but also to students and fellow members of faculty and staff. For example, a perception on the part of a student that he/she is being coerced/exploited through referral for assistance could be of detriment to UBC and the student.

Student requests to their instructors/advisors for professional service should be referred to other experts. When such requests are of an exceptional nature such that the instructor/advisor believes he or she should provide the professional service, this should only be done after discussion of the matter with the administrative head of the unit to further explore alternate sources.

INSIDER KNOWLEDGE:

Unless the individual has proprietary rights (usually enforceable through copyright or patent), it is deemed to be un-

professional conduct to make use of knowledge gained through employment at UBC which is not generally available to the public for non-University purposes or investments. It is a conflict of interest and therefore not permitted to use for personal gain information not in the public domain acquired as a result of a faculty or staff member's University-supported activities.

MISUSE OF INFORMATION:

While an important function of a university is dissemination of knowledge and transfer of information and while much information about the operation of the University is in the public domain, there are situations when certain information about the affairs of the University within knowledge of members of faculty and staff is confidential and is not to be disclosed to others.

Examples of confidential information include, but are not limited to, most personnel matters, matters relating to a student's performance and status, and donor information. For instance, personal information such as earnings, address, marital status, social insurance number, etc. about any employee of the University may not be released to enquirers by either the Department of Human Resources or by any other University department, faculty or school, without prior written authorization from the individual employee in question.

Since many committees are charged with responsibilities for confidential matters, participants on such committees are alerted to the importance of maintaining the confidentiality of details of the discussion and decisions made. Examples include personnel committees involved in the selection or appointment of candidates for employment, in decisions relating to promotion, tenure, and salary adjustment, committees involved in the academic assessment of students, and administrative committees dealing with such matters as financial management and control, procurement and tendering, the selection of architects, etc.

The responsibility for maintaining the confidentiality of information of documents includes the responsibility for ensuring, as far as is reasonable and practicable, that such information or documents are not directly or indirectly made available to unauthorized persons.

USE OF UBC'S NAME:

Members of the University community may express their opinions outside the University with the same freedom as other citizens. Such expressions are solely the responsibility of the individual, and the University assumes no responsibility for them, except for statements issued on behalf of the University by those so authorized to act by the University administration.

FAVOURITISM IN EMPLOYMENT

Many organizations recognize the need for policies governing the employment of members of the same family. Some employment policies proscribe the employment of members of the same family or require some form of independent approval where such conflicts of interest occur. The problem of this approach is to define as familial all the personal relationships that could lead to preferential treatment in the hiring of particular individuals. As an example, the hiring of a next door neighbour or a fellow club member, for that reason alone, may be just as unfair and damaging to an organization's reputation and public image as the hiring of a member of the same family in similar circumstances.

Therefore, the University takes every precaution to guard against favouritism of every kind in hiring. Faculty and staff members must be scrupulously fair and honest in ensuring that positions are well advertised and that appointments are offered always to the best-qualified available candidates. In so doing, however, the University acknowledges that, occasionally and in unique circumstances, there are cases in which, to fulfil the mission of the University, potential conflicts of interest may arise.

When a faculty or staff member is in a position to influence personnel decisions (such as the recruitment, offer of employment, evaluation of performance, promotion, granting of tenure, or termination of employment) with respect to another with whom the faculty or staff member has a relationship which might reasonably be construed as a conflict or potential conflict of interest, then the faculty or staff member has a duty to disclose the situation to the administrative head of the unit.

In selection decisions, the administrative head of the unit has the responsibility of deciding whether approval will be given to make an offer of employment. Among other considerations, the administrative head should seek assurance that a reasonable search has been made, taking into account the nature of the work to be done and that the applicant is the best available candidate for the job.

Normally, faculty and staff members are expected to avoid apparent and actual conflict of interest situations by not participating in the decision-making process with respect to the other person. For example, a faculty member is required to withdraw from a departmental committee charged with evaluating the other person's case for tenure or promotion.

There are, however, cases in which this is not possible, such as that of a researcher who employs a research assistant on a grant. If, in such a situa-

tion, the faculty or staff member and/or administrative head of unit deem that a disclosed potential conflict of interest may warrant monitoring rather than avoidance, the administrative head will consult with the Associate Vice President Human Resources and/or Associate Vice President Academic, as appropriate, who will determine procedures to be followed to ensure the systematic monitoring of the potential conflict of interest throughout the period of employment. The process by which monitoring occurs shall be consistent, fair, unbiased and documented in order to protect both the individual(s) and the University and will normally include events such as recruitment, offer of employment, performance evaluation, tenure, promotion, discipline and termination of employment.

A record of each case will be documented and kept on file in the office of the appropriate Associate Vice President for the duration of the employment and in accordance with legislated requirements governing employment records. Each record must contain a signed statement of agreement between the individual(s) and the University which permits the University to: release information concerning the process used to monitor the potential conflict of interest; and, with the written permission of the individual(s) for whom there is a potential conflict of interest, release information concerning the substantive elements of the case.

Members of faculty and staff will be asked to review their current relations with other employees at the University and to disclose any potential conflicts of interest which might presently exist to the administrative head of their unit.

PURCHASING/SELLING PROCEDURES

The University's approach to avoiding conflicts of interest in purchasing and selling is to deal at arm's length with suppliers and customers by appointing agents authorized to make decisions on purchasing and selling who are separate from units and individuals standing to benefit from the purchase/sale.

PURCHASING:

All faculty and staff members who have decision-making authority or who are in a position to influence a decision about a purchase or contract must disclose in writing any personal material interest in a prospective vendor to the Director of Purchasing (or Director of the Bookstore, University Librarian, Director of Campus Planning, etc) and withdraw from

the decision-making process, if that is deemed appropriate.

Caution should be exercised in dealings with vendors during the decision-making process, and acceptance of gifts, travel or other incentives is prohibited.

In order to obtain the best possible value for the University dollar, specifications should be constructed in as generic a way possible. This will avoid the appearance of tailor-making a purchase request to favour a particular supplier. However, it is entirely appropriate to specify considerations relevant to the purchase, such as the quality of service expected, delivery time, and method and timing of billing.

SELLING:

A conflict is considered to exist whenever a personal consideration, benefit or material interest could potentially interfere with optimizing the dollar return to UBC on its goods or services sold. For this reason, the establishment of prices at fair market value and the dissemination of information about the availability for sale of goods and services are critical.

All faculty and staff members who have decision-making authority or who are in a position to influence a decision about a sale must disclose any personal material interest in the transaction to the vice president to whom their department reports, copying administrative heads and/or deans, and withdraw from the sale process if deemed appropriate.

FUNDRAISING

Although interest from UBC's external community about the teaching and research programs is welcome and academic initiatives are often developed in consultation with the community, decisions concerning the academic affairs of the University will be made through the appropriate, established bodies and authorities.

The academic decision-making process is established in part to ensure that there is sufficient academic rationale for activities undertaken. For an endowment to be established for academic purposes (eg. scholarship, chair, professorship, centre), approval must be obtained from both Senate and the Board of Governors. Donors will be neither advantaged nor disadvantaged in the normal academic functions of the University, such as admissions, progress of students and honorary degrees. Similarly, the University does not withhold research results as a general principle, but in exceptional cases, publication may be delayed; donors to particular research programs who request withholding publication of results may be offered the same conditions as provided for research contracts.

Visual aids tell the story for ESL students

By CHARLES KER

For children learning English as a second language, pictures may indeed be worth a thousand words.

In fact, some educators believe "key visuals" such as charts, graphs and diagrams may provide an essential link between language and academic learning.

Today, almost half of Vancouver's 50,000 school-age children speak a language other than English at home and receive some form of ESL support.

But while they may be learning enough English to converse with friends in the playground, these ESL students may lag behind their English-speaking counterparts in the academic English needed for the classroom.

"The English that's learned quickly is the kind needed for chat," said UBC Assistant Professor Margaret Early. "But you have to go beyond simple conversation to be successful in school and that takes a particular kind of help."

For the last decade, Early and Professor Bernard Mohan have been working with the Vancouver School Board (VSB) to develop new methods of ESL instruction.

They argue that if ESL students are to keep up with their English-speaking peers, language skills must be taught in conjunction with aca-

ademic subjects, not in isolation. And they believe key visuals will go a long way towards achieving this goal.

"Visuals provide an effective way of conveying how information is organized," said Early. "They allow students to explore the hows and whys of a subject while eliminating the need for trivial, isolated language exercises."

According to Mohan, information can be organized in at least six major ways: classification (classifying, defining), principles (explaining, predicting), description (observing, labeling, naming), evaluation (judging, evaluating, appreciating), sequence (predicting, planning, arranging) and choice (decision-making, selecting, identifying).

Each area of this "knowledge framework" comes with its own language which can be gradually introduced to students. Areas also have their own conventional illustrations which can be used by teachers as springboards to other class activi-

ties involving language comprehension (listening and reading) or expression (speaking and writing).

ties in home economics — they can all be discussed at an early stage of language learning," said Mohan. "There's no sense putting a child's development of knowledge on hold to teach English for English's sake."

Mohan added that it often takes immigrant students up to seven years to acquire the language skills needed in a mainstream classroom. However, students have traditionally been given just two years of basic ESL instruction before being placed in a regular class.

With some Vancouver schools having up to 50 different first languages spoken by students, bilingual education in the classroom raises a number of practical issues.

Early said Mohan's approach does away with the need for an entirely different curriculum for ESL students and has been used effectively with both first and second language students.

In 1989, the Vancouver School

Board designated 10 schools (six elementary and four secondary) to take part in a four-year project to develop the social and academic integration of ESL students.

The project currently has more than 100 educators using an integrated approach to teaching language and academic subject material.

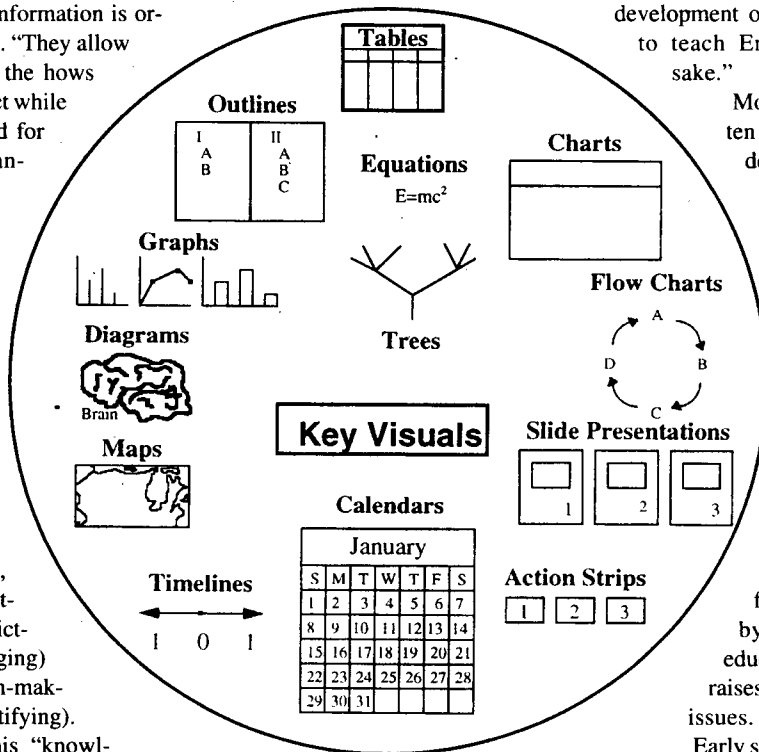
Teams of ESL and regular classroom teachers, particularly those with expertise in social studies, science and computers, are working together testing and evaluating new ESL teaching methods and materials.

A recent three-year grant from the Social Sciences and Humanities Research Council will allow this work to be followed up in detail.

Vancouver's ESL student population represents about 80 countries and 66 languages.

They are taught in 62 separate ESL classes in elementary schools and 87 classes in secondary schools. The remainder are either offered some form of in-class support or attend "transitional classes" which focus on the teaching of language with regular class content.

The UBC researchers work in close collaboration with VSB staff, particularly Hugh Hooper, the district principal for ESL programs. Recommendations for future ESL developments are jointly made and considered on an ongoing basis.



Some of the visual aids used in teaching ESL students.

"Classification of countries in social studies, forms of energy in science, vertebrates in biology, or muf-

Nitobe Garden to get \$1-million spruce-up

The Nitobe Memorial Garden will receive a \$1-million facelift this fall, a renovation which is to include the construction of a wall around the garden's perimeter.

Prince and Princess Takamado of Japan joined Lt.-Gov. David Lam and Mrs. Lam at a ground-breaking ceremony last month to launch the project.

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 with a more secure and sound-

proof 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 of Japan.

The renovation project has been funded through Konwakai (the Vancouver-Japanese Businessmen's Association), the Commemorative Association for the Japan World Exposition (1970) and with assistance from the Japan Foundation.



Photo by Media Services

Digging in

Helping the garden grow, the spouses of some Canadian premiers recently joined UBC dignitaries to plant a hornbeam tree in the David Lam Asian Garden. They were on campus to attend the national conference of the Parent Resources Institute for Drug Education, an organization which combats adolescent drug abuse. From left, Julie McKenna of New Brunswick, Beckie Harcourt of B.C., Janice Filmon of Manitoba, Alice Strangway, wife of UBC President David Strangway, and Bruce Macdonald, director of the Botanical Garden.

Meeting updates campus on plan

"Preserving the best and repairing the rest" was the underlying theme at the May 20 presentation of the Main Campus Plan.

The public presentation was attended by about 100 people, with interest groups ranging from the campus community, including the UEL and the GVRD, to architects, engineers, planners and the general public.

The presentation comes near the end of a two-year consultation process during which public feedback has helped shape the plan.

The purpose of the two-hour presentation, given by University Planner Andrew Brown and Roger DuToit, chief planning consultant, DuToit Allsopp Hillier, was to inform, update and provide a review of the role and scope of the plan.

Questions focused primarily on issues dealing with transportation, cliff stabilization, heritage preservation, and housing, as well as innovative ideas such as bringing the campus to the city and the shifting of class times to reduce transportation problems.

To date, responses to the third draft of the Main Campus Plan have involved issues including pressures on the park, traffic congestion, cliff stabilization, signage and orientation, parking, public safety, and the proposed town centre. The Main Campus Plan is currently in its third draft and is being reviewed by the Board of Governors.

For further information or a copy of the plan, please contact Kathleen Laird-Burns, UBC Campus Planning and Development, 822-8228.

Submitted by Kathleen Laird-Burns, Campus Planning and Development

Advertise in
UBC Reports

Deadline for paid advertisements for the July 16 issue is noon, July 7.

For information, or to place an ad, phone 822-3131

Summer camp lets kids be kids

By CONNIE FILLETTI

Summer camp. For most kids it represents freedom from the boredom of hot city streets or escape from performing their daily chores.

But for kids with cancer, it could mean a whole new lease on life.

Betty Davies, an associate professor of Nursing, and her colleague Brenda Eng, recently studied the effects of a summer camp experience on the self-concept of children with cancer.

Their research indicates that summer camp was a valuable experience for these children.

"It presents an opportunity for them to socialize with kids who are in the same situation," said Davies.

"They see other kids who have lost limbs, or who are bald from chemotherapy treatments, and they feel less self-conscious. Despite the trauma, these kids are normal and need to be treated that way."

Davies and Eng studied 69 children who attended Camp Goodtimes, a one-week summer resident camp located on the Sunshine Coast. Thirty-three boys and 36 girls, between six and 16 years of age, participated in the study.

Almost one-half of the children had leukemia. Most were diagnosed within the current year or within one year of attending camp.

Psychological measures were used to assess the self-concept of the children. One of the tests required the kids to draw a human figure twice during the course of camp — at the beginning of their stay and again at the end of camp. The drawings were analysed for emotional indicators.

"The most frequently occurring emotional indicators in the pre-camp drawings were the omission of body parts, particularly hands and feet," said Davies.

"Others included tiny figures, unusually large or small arms and legs, clinging arms and legs, and poor integration. They were strongly suggestive of a certain amount of anxiety, insecurity or uncertainty."

She said that there was a slight improvement between pre- and post-camp drawings in the areas of insecurity, shyness and timidity, but the largest improvement was seen in the children's level of anxiety which decreased substantially by the end of camp.

"The findings suggest that the children had a more positive self-concept following their camp experience," Davies said.

"They perceived themselves to be less vulnerable, more capable and more independent. They just need to feel like kids, not kids with cancer."

UBC team places second in Odyssey competition

By GAVIN WILSON

A team of UBC students placed second among post-secondary institutions at the annual Odyssey of the Mind, a creative problem-solving competition held recently at the University of Colorado in Boulder.

The UBC team, sponsored by the Faculty of Applied Science, was coached by Jim Atwater, an associate professor in the Dept. of Civil Engineering.

Campus thief gets prison sentence

A Vancouver man who fraudulently obtained computer equipment worth about \$225,000 from UBC has been sentenced to 28 months in jail.

John Melvin Hill, 34, was sentenced after pleading guilty to the charge in B.C. Supreme Court. He had been working as a consultant to the university.

neering.

Team members, drawn from the faculties of Applied Science, Science and Arts, were: Helen Wong, Ana Maria Kim, Maria Glavas, Christopher Chan-Henry, Nancy Kang, Karla Tsang and Nathan Orgettas.

All seven had previously competed together in the competition while students in high school, and decided to enter again under the UBC banner, Atwater said.

In total, there were 14 teams from B.C., mainly from elementary and secondary schools.

Odyssey of the Mind is a New Jersey-based organization that promotes the use of creative approaches in problem-solving. About one million young people are involved worldwide.

The problem faced by the UBC team was to build five different vehicles: pneumatic-driven, water-driven, mechanically-driven, electrically-driven and a stair-climbing device.

Pooling off to 'vantastic' start

By ABE HEFTER

Van pooling is up and running at UBC.

"Thanks to the generous support of the Jack Bell Foundation of Vancouver, UBC has secured the services of one of a dozen vans that have been made available by the foundation to businesses in the lower mainland," said Glen Stanger, associate director of Plant Operations.

Stanger said UBC employees who van pool pay a monthly fee which is the fraction of the cost of single driver automobile transportation.

"The monthly cost of belonging to a van pool that commutes about 80 kilometres a day is \$93 for an eight-passenger van," he said.

"A single commuter who makes an 80-kilometre round trip will spend about \$400 monthly, when you factor in the cost of maintenance, insurance, depreciation and gasoline."



Photo by Media Services

Soon to be a familiar sight for commuters throughout the Lower Mainland, a van stands ready to roll.

Stanger said van pooling service started up on June 1, and is currently available between Tsawwassen/Ladner and UBC, as well as Coquitlam and the university. More vans serving the Richmond and North Delta areas may also be in place in the near future.

"When eight people from an area express an interest in joining, a dem-

onstration week of service is organized, giving riders a chance to size up the situation," said Stanger.

"That's the stage the Richmond route is in. North Delta is almost there."

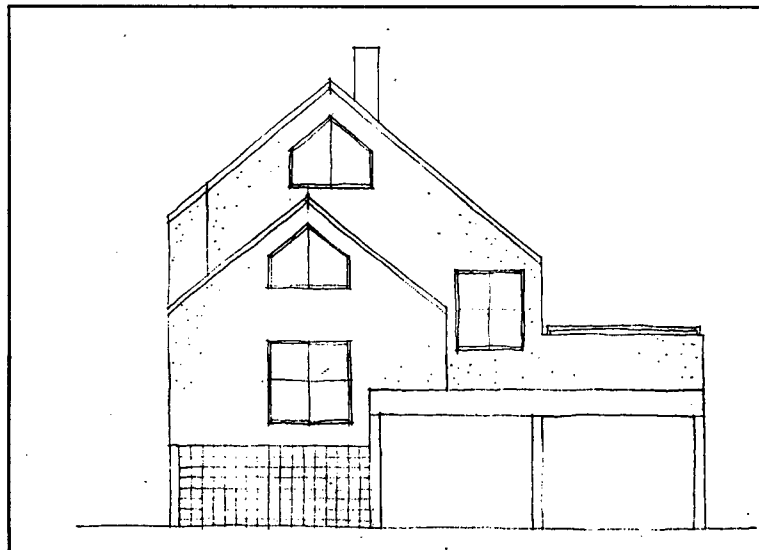
Stanger said there is essentially no limit to the number of vans that could be deployed in a particular area.

"Commuters from all around the Lower Mainland, including Burnaby, the North Shore and White Rock, have expressed an interest in van pooling,"

said Stanger, adding that service to those areas will be started when the number of interested people increases.

Stanger said the van pooling project is off to an encouraging start, but says there's room for growth.

If you are interested in van pooling, or would like more information, write Glen Stanger at the Dept. of Plant Operations, 2210 West Mall.



Total energy consumption could be cut by 50% in UBC-designed home.

Healthy house would use less lumber, energy

By CHARLES KER

The house is small but healthy.

In fact, UBC's Chris Mattock and David Rousseau have helped design one of the two healthiest houses in Canada.

Their 1,000-square-foot, environmentally-friendly, energy-efficient creation was recently voted a co-winner in the Canada Mortgage and Housing Corp. Healthy Housing Design Competition.

The "urban infill" entry, to be built on a city site alongside an existing dwelling, was chosen from among 10 final designs submitted in the national contest.

Mattock, an adjunct professor in UBC's School of Architecture, and Rousseau, a member of the school's environmental research group, said the idea was to come up with a house that was healthy for the natural environment as well as for its occupants.

Firstly, Mattock, Rousseau, and colleagues decided to put the residence in an urban setting to reduce the need for a car and reduce carbon dioxide and other emissions linked to transportation.

Secondly, innovative framing techniques will require less lumber than conventional construction methods. Consideration was also given to using materials which were less energy intensive to make and less likely to cause pollution in the manufacturing process.

For example, insulation will consist of

fire-retardant cellulose made from recycled newspapers while exterior siding will be a special fibre-cement rather than cedar or vinyl.

Thirdly, air quality indoors will be significantly cleaner and fresher thanks to a careful selection of interior finishes. In addition, a high-performance ventilation system will filter dust and pollen from the outside while continuously circulating air throughout the interior.

Alternate materials would be used indoors instead of petroleum-based products and installed without adhesives or noxious solvents.

Finally, a sealed combustion water heater would heat both the water and interior space and ensure that no combustion gases enter the home.

Of course, electrical consumption would drop drastically with an effective combination of daylight and high-efficient lighting sources and appliances.

Mattock says that the house would be so energy-efficient and solar sensitive that, together with a few modifications to the existing dwelling, total energy consumption for the site could be slashed by 50 per cent.

While it's still just a blueprint, Mattock said a number of people have expressed interest in building his healthy house. The estimated price tag is about \$115,000.

Heads of Class winner

The following prize winner was omitted from a story on the Heads of Class in the last issue (Congregation) of UBC Reports.

Mead Johnson Canada prize in Pediatrics (offered to the fourth year student who obtains the highest standing in Pediatrics): **Barbara Blumenauer.**

B.C. students dominate Euclids

By GAVIN WILSON

B.C. high school students continue to dominate the national Euclid Mathematics contest, finishing the 1992 competition with 37 of the top 98 students in the country.

About 9,700 students from more than 1,000 schools across the country wrote the exam, which is designed to challenge students bound for post-secondary education and identify those with outstanding talent.

Of the top 55 schools in Canada, 27 are from B.C. Another 23 are from Ontario, with three from Alberta and one each from Manitoba and Nova Scotia. There is limited participation from Quebec. Seven of the top 14 schools were from B.C.

UBC Mathematics Professor George Bluman is the B.C. coordinator of Euclid, which is part of the Canadian Mathematics competition administered by the University of Waterloo. He is also a member of the national committee which sets the Euclid paper.

GET YOUR MESSAGE ACROSS!

UBC Reports

CLASSIFIEDS

CALL 822-3131

People

Munton awarded Fulbright Fellowship

Donald Munton, associate professor in the Dept. of Political Science, has been awarded a Canada-U.S. Fulbright Fellowship.

Munton has had a long-time interest in Canadian-American relations, particularly as they relate to environmental issues.

Munton will spend his eight-month fellowship at Dartmouth College in New Hampshire, where he will research the scientific and domestic political processes that led to the U.S.-Canada Air Quality Agreement in 1991.

The agreement will be examined in terms of its long-term impact on reducing emissions causing acid rain and other air-quality issues. Munton's research will be published in a book.

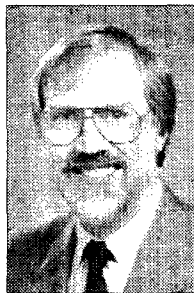
UBC's Faculty of Medicine.

Morrison graduated from the University of Saskatchewan medical school in 1966, and completed his otolaryngology residency training at the University of Toronto in 1971.

He obtained additional training in head and neck cancer surgery in Liverpool, England before spending a year in basic otological research at Stockholm's Karolinska Institute.

Morrison's research has focused on psychiatric, neurological and functional voice disorders, as well as automated voice acoustic analysis.

He has served as president of the professional staff of the BC Cancer Agency, and is currently the Otolaryngology residency program director at UBC. His five-year appointment began in March, 1992.



Morrison

training in 1969. He joined the academic staff of the university's Division of Neurosurgery one year later.

After spending 18 months at the University of Pennsylvania as a research fellow, with interests in intracranial pressure and cerebral blood flow and metabolism, Durity returned to UBC in 1975 as an assistant professor in the Dept. of Surgery. He became an associate professor in 1980.

His clinical interests include cerebral trauma. The five-year appointment began in January, 1992.

president of the Canadian Association of Arts Administration Educators (CAAAE).

The CAAAE represents colleges and universities that provide arts administration education throughout Canada.

Kelly, co-ordinator of the faculty's Arts Administration Option, has also been asked to serve as chair of the national advisory committee on cultural statistics. The committee advises various federal government agencies.

Commerce and Business Administration Professor **Alan Kraus** has been elected director of the American Finance Association (AFA) for a three-year term.

The AFA is the major academic and professional organization in the field of financial economics. Its members elect three directors each year.

Kraus is the only director from Canada on the AFA board.

Dr. **Felix Durity** has been appointed head of the Division of Neurosurgery in UBC's Faculty of Medicine.

Durity obtained his MD degree in 1963 from UBC where he also completed his neurosurgical

Paul LeBlond is stepping down as head of the Dept. of Oceanography to take an appointment as director of the program in Earth and Ocean Sciences in the Faculty of Science.

The new program will draw from the departments of Oceanography, Geological Sciences, Geophysics and Astronomy and, in collaboration with the Dept. of Geography, will formulate and develop integrated research and instructional programs addressing global scientific problems of a cross-disciplinary nature.

Professor Alan Lewis took over as acting head of Oceanography on April 1.

Commerce and Business Administration Associate Professor **Bob Kelly** has been elected

Zoology Professor **David Jones** is the recipient of the Canadian Society of Zoologists 1992 Fry Medal. The medal is awarded to a Canadian zoologist who has made an outstanding contribution to knowledge and understanding of an area in zoology.

Jones' research focuses on the control of circulation and metabolism in ducks and seals during diving.

His acceptance speech at the 800-member society's annual meeting last month in Nova Scotia dealt with the cardiac dynamics of alligators.



Jones

Staff pension plan shows steady growth: report

By ABE HEFTER

With net assets of more than \$200 million, the UBC staff pension plan continues to exhibit steady growth, as outlined in the recently released 1991 annual report.

"The pension plan is in good shape," said Marcelle Sprecher, Human Resources compensation and benefits manager.

Sprecher said as of the last valuation in January of 1990, the plan had a substantial surplus of \$26.6 million, a reflection of the investment performance and level of contribution to the pension plan. The previous valuation, done in 1987, showed a surplus of \$14.5 million. The next formal valuation will take place in 1993.

A significant amount of work is being done to make sure pension plan funds are invested to

achieve the maximum rate of return with a minimum of risk, she said. The pension investments are managed by a group of professional investment managers hired through the staff pension plan investment committee.

"By achieving the maximum rate of return with a minimum of risk, we can ensure the continued financial success of the plan. If we build more surplus in the plan, we can use that money for additional benefits," Sprecher said.

The pension plan is invested in a diversified portfolio of Canadian and U.S. stocks, Canadian bonds, and some cash. Sprecher said it is scheduled to begin investing in real estate in the near future. U.S. and global investments are currently being explored.

Recently, there have been several

changes made to improve benefits in the plan. They include improved benefits upon termination and improved benefits for current pensioners. The expected result would be a reduction in the surplus, explained Sprecher.

At the same time, the pension board, of which Sprecher is a member, is continuing to look at the plan to make sure it meets the needs of its members.

"This is particularly important right now because people are living so much longer and need sufficient income to help maintain themselves," said Sprecher.

"At the same time, employee profiles are changing. More people are not working their entire career with one employer, so pension portability is an issue."

Sprecher said the pension board will continue to circulate newsletters

on campus outlining pension plan developments. In addition, a number of communications sessions will be scheduled for later this year to obtain additional input from the university community.

Sprecher said she encourages all UBC employees to read the annual report and direct any questions they may have to the pension administration office at 822-8986 for additional information.

Library targets delinquent users

By ABE HEFTER

Do you have an overdue library book from UBC that's collecting dust at the back of the your bookshelf?

Any users of the UBC library system with overdue fines or missing books who attempt to borrow additional material on June 30 will have their library privileges suspended until they pay their fines or return any missing books.

It's part of a program that was initiated in February to encourage users of the UBC library system to return materials on time, explained Leonora Crema, head of circulation for the UBC Library.

"As of earlier this year, money owed to the library from fines or missing publications totalled almost \$400,000," she said.

"People were simply not returning their books on time and fines were not being paid. We realized we had to do something to encourage users to be more responsible."

The library made its initial move to suspend library privileges last February, at a time when there were about 7,500 borrowers with outstanding debts.

The result was a seven-fold increase in collections from fines that month.

"Twenty thousand dollars in fines was collected last February

as compared to \$3,000 in February of 1991," said Crema.

Crema said the money collected from fines is used to enhance the library collection. Last year, for example, the money was used to purchase books.

"Many library users have been supportive in our efforts," she said. "It's in their best interests. Books are being brought back sooner so that other people can use them."

Crema said the suspension will take place three times a year, in June, September and February.

"We want library users to be aware of what's happening," she explained. "Nobody likes to be surprised."

Classified

Classified advertising can be purchased from Community Relations. Phone 822-3131. Ads placed by faculty, staff and students cost \$12.84 for 7 lines/issue (\$1.83 for each additional word). Off-campus advertisers are charged \$14.98 for 7 lines/issue (\$2.14 for each additional word). (All prices include G.S.T.) Tuesday, July 7 at noon is the deadline for the next issue of UBC Reports which appears on Thursday, July 16. Deadline for the following edition on August 13 is 4 p.m. Tuesday, August 4. All ads must be paid in advance in cash, by cheque or internal requisition.

For Rent

OFF CAMPUS HOUSING: Luxury Kitsilano townhouse to share with professional. West 2nd Ave. & Bayswater - 2 blocks to bus. Private bedroom partially furnished, large closet. Modern kitchen and laundry. Non-smoker, scrupulously clean. \$500. 739-9161.

Miscellaneous

THANK YOU: To President David Strangway for the President's Service Award for Excellence. Also, many thanks to the staff at Physical Plant, Libby Kay, and all my friends at UBC. Special thanks to Glenn Drover and the School of Social Work... Sonja Sigfredsen.

Berkowitz & Associates

Statistics and Mathematics Consulting

- research design
- data analysis
- sampling
- forecasting

Jonathan Berkowitz, Ph.D.
4160 Staulo Crescent, Vancouver, B.C., V6N 3S2

Office: (604) 263-1508 Home: (604) 263-5394

Ten Myths About School Dropouts

By DEIRDRE KELLY

Dropping out of school is once again making headlines throughout North America.

President Bush and his nation's governors vow to slash the dropout rate in order to make the U.S. globally competitive. Here in Canada, the federal government has allocated \$296.4 million to a five-year, stay-in-school initiative, begun in 1990.

In British Columbia, dropout rates have been used to marshal support for a comprehensive set of schooling reforms outlined in various "Year 2000" documents. Yet using the "dropout problem" in this way is itself problematic, given the number of misconceptions surrounding early school leaving.

Here are 10 myths about dropouts.

1 Students are dropping out more than ever before.

Actually: Historical data suggest a steady decline in high school dropout rates since the turn of this century, leveling off at about 25 per cent in the late 1960s, precisely when high school graduation became the standard route to employment even for manual laborers.

Among 17-year-olds, according to U.S. government statistics, six per cent graduated from high school in 1900, 16 per cent in 1920, 49 per cent in 1940, and 76 per cent in 1970. Although comparable data for Canada are lacking, an historical study of Ontario's secondary retention and graduation rates shows a similar pattern, although in slightly lower proportions.

Statistics Canada calculates that in 1986 among persons in the 20-24 age group, the high school dropout rate was 27 per cent for Canada as a whole and 28 per cent in British Columbia.

2 Students exercise a clear choice to leave school without graduating.

Actually: A fair number of students are pushed out or simply fade out.

In a recent Vancouver study, out-of-school youths and community professionals cited the public school system's "transferring-out" — or "kicking kids out" — policy as an important contributor to the incidence of dropping out. Other studies have shown that for many students the decisive moment of dropout or pushout never occurs; these students attend infrequently, leaving and returning several times, and thus may be more aptly described as fade-outs.



3 Dropouts are psychologically disturbed, below average in intelligence, and otherwise deviant.

Actually: The students who eventually leave early seem to be quite similar to those who quit after graduating from high school and do not go on to post-secondary education.

Dropouts are not all psychologically depressed. In fact, one comparative study in inner-city New York found that dropouts were less depressed than those still in school. Ethnic and other minority groups may be faced with curricular content that does not reflect their living conditions or presents as truth a certain history and set of personal experiences that for them is alien.

Dropouts are not all below average in intelligence. A recent national survey found that over 30 per cent of dropouts had grade averages of A or B in secondary school, while just over 10 per cent reported Ds or Fs.

In short, rather than spend effort trying to distinguish what makes dropouts different from stay-ins, perhaps we should direct our attention toward understanding why mainstream schools create so many disengaged students, dropouts or not.

4 Boys dropout in much larger numbers than girls do.

Actually: Girls drop out in rates approaching boys now, particularly in Western Canada. According to the 1986 Census of Canada, 28 per cent of both males and females aged 25-34 were high school dropouts; the corresponding figures for British Columbia were 26 per cent of males and 25 per cent of females.

Some evidence suggests that males take longer to graduate and that in some provinces, especially the Atlantic ones, a significant gender gap in dropout rates still exists.

5 Pregnancy is the main reason girls drop out.

Actually: Girls leave school for many of the same reasons boys do; rarely today are girls who are ac-

ademically and socially engaged in school suddenly derailed in their education by pregnancy.

Scholars and policymakers have often assumed that the school has little influence on girls taking on adult roles early. Yet pregnancy and marriage may be symptoms of, and attempts to deal with, disaffection from school.

For those marginalized by institutional practices like streaming, academic failure, in-grade retention, standardized tests as well as curriculum and instruction, schooling can become tiresome and painful. Such students seek out alternative, more sustaining roles.

In disengaging from school, girls often turn to relationships that can lead to pregnancy and marriage, boys to paid labor. But only nine per cent of female dropouts cited pregnancy or marriage as the main reason they left school, according to a national survey of 18-20 year olds.

6 Permanently "burned out" teachers stop caring about their students, who therefore drop out.

Actually: Teachers who care greatly find themselves working in conditions that keep them from expressing it fully.

The conditions that enabled teachers to be more caring at the alternative school earned

them high student evaluations compared to their regular school counterparts. Rather than replace supposedly "burned out" teachers with fresh blood, we need to organize schools in a way that would allow more of today's teachers to be continuously renewed by their work.

7 Dysfunctional families are to blame.

Actually: A more pertinent question may be whether schools are dysfunctional, given that the present educational system has not fully accommodated itself to the widely acknowledged, dramatic changes in the structure of work and families since World War II.

Today, three-quarters of women in the prime childbearing years are in the paid work force. Many work out of economic necessity. In the U.S. nearly 60 per cent of women in the work force are either single, divorced, widowed, separated, or have husbands who earn less than \$15,000 a year.

Further, the nuclear family — made up of a sole breadwinner father, a homemaker mother, and children under 18 — comprises only eight per cent of all households today, according to U.S. government statistics.

Many students who drop out do

report troubles at home, as do many students who remain in school.

What often separates the two groups is not whether one values education more than the other, but rather who has better access to support in the form of everything from expensive mental health services and private tutoring to concerned relatives able to get involved.

Low-income and single-parent families not only face more stress, they have limited means of protecting their children from life's disasters.

An analysis that dysfunctional families cause dropouts leads to one of two approaches: psychological counselling for individuals at risk of dropping out, or seeing those individuals as too "damaged" to fit in to a normal school environment. Neither approach challenges the school to adapt to the needs of its changing population.

8 Making the curriculum more "relevant" will prevent many students from dropping out.

Actually: "Relevance" often becomes an excuse to track school-weary students into vocational or general studies that lead nowhere.

The Sullivan Royal Commission, for example, cited a "disturbingly high" dropout rate in B.C. and then concluded that "one solution to these problems is to create relevant alternative programs of good quality to attract non-academic students, including those who might otherwise leave school early.

In Year 2000: A Framework for Learning, the Ministry of Education proposed a Graduation Program with several tracks. Although the details are still murky, the plan seems to reintroduce streaming in grades 11-12, with the assumption that vocational options would be more "relevant" to the non-university bound and thus hold them in school longer.

A number of historical studies have shown that vocational and alternative education programs are often undervalued and underfunded by the rest of the schooling system. The stigma attached to the programs usually extends to students enrolled in the less prestigious classes.

9 More special programs for "at risk" students are the answer.

Actually: Dropout prevention and recovery programs — safety nets — can easily become safety valves that enable school administrators to keep mainstream programs relatively free from so-called troublemakers and rebels.

Ad hoc interventions that commonly segregate the most disaffected leave intact the institutional arrange-



ments that contribute to the alienation of a good many other students and school staff as well. Students in special programs are typically offered a remedial or vocational curriculum, so the programs get further stigmatized as second class. It then becomes difficult for students enrolled in a devalued program — one that seems to mark them as "losers" — to turn around academically. Thus, dropout prevention programs too often become a final arena for dropping out of the schooling system altogether.

10 If students persisted in school and improved their basic skills, they would be rewarded with good paying, stable jobs.

Actually: The link between schooling and jobs is far from solid. Were more students to stay in school longer and score better on standardized tests, it is doubtful the youth unemployment rate would decrease significantly because a finite number of jobs are available for skilled workers.

Many people believe that the increased use of new technologies and the change from manufacturing to service jobs will require more educational skills, although these expected changes have yet to materialize. In a recent survey only five per cent of employers — mainly large manufacturers, financial service organizations, and communications companies — were concerned about a skills shortage. According to the study's sponsor, the National Center on Education and the Economy (NCEE): "The primary concern of more than 80 per cent of employers was finding workers with a good work ethic and appropriate social behavior: 'reliable,' 'a good attitude,' 'a pleasant appearance,' 'a good personality'".

The current obsession with the dropout rate is yielding reforms designed primarily to keep youths in school longer. But dropout-linked reforms are unlikely to create much positive change unless they are unhampered by our present mythology about how and why students leave school in the first place.

Too much emphasis is being placed on the amount of schooling people receive without an attendant concern for whether this policy goal alone will improve schools or the prospects of all students — dropouts or not — who feel alienated by the current system.

Deirdre Kelly is an assistant professor in the Department of Social and Educational Studies. The above is an excerpt from an article she wrote for *Perspectives in Education*.

Illustrations by Diana Cooper, Fine Arts Library reference librarian.

