

UBC REPORTS

Volume 43, Number 3

February 6, 1997



Charles Ker photo

Up In Smoke

Physics students Elana Brief (right) and Irene Vavasour have some fun with liquid nitrogen during the Physics Magic Show recently staged at the Hebb Theatre during Science Week. The Beyond First Year exhibition provided valuable information in the SUB ballroom to hundreds of attendees about options open to them in all faculties after first year. Science students also got a chance to quiz Dean Barry McBride during a bag lunch information session in the Chemistry building.

Scholar urges schools fix on child's 'greatness'

by Connie Bagshaw

Staff writer

Can't balance your chequebook? You could be the next Agatha Christie.

Christie, like many creative, successful people, including Leonardo da Vinci and Albert Einstein, had a learning disability. In the famous mystery writer's case, it was difficulty with adding numbers. Both da Vinci and Einstein were dyslexic.

"Agatha Christie couldn't spell, had terrible handwriting and was incapable of balancing her chequebook," said Linda Siegel, holder of UBC's Dorothy Lam Chair in Special Education. "But people with learning disabilities often have strengths and talents that shouldn't be overlooked."

Siegel said that individuals who have difficulty learning arithmetic often are creative, possess good oral skills and have an aptitude for the dramatic arts. People with dyslexia may display excellent talents and mechanical skills, and excel at music and sports, particularly swimming, skiing and tennis.

"The learning disabled are neither lazy nor stupid. We must realize this, pay attention to their problems and make it

an important issue for the educational system. Our schools need to ensure that the greatness in each child can flourish. A significant step has been to shift the question 'how smart is this child' to 'how is this child smart.'"

Siegel believes that a major problem facing the learning disabled is the way in which learning difficulties are defined, usually according to a rigorous measurement of the discrepancy between an IQ test score and the individual's achievement levels.

"If someone scores low on an IQ test but can't read very well, they may be considered slow but not learning disabled," Siegel explained. "Their problem is neglected, they get left behind and, as studies indicate, that increases their risk for developing emotional and social difficulties."

Her own research findings indicate that learning disabilities may play a role in adolescent suicides and the emergence of street youth.

Although frustration, a lack of self-esteem and emotional disturbances are common in people with learning disabilities, Siegel said the difference between who becomes a productive member of society

See **LEARNING** Page 2

Doctors' training to take real life turn

by Gavin Wilson

Staff writer

The Faculty of Medicine has won approval for the most sweeping changes to its undergraduate curriculum since the medical school opened its doors in 1950.

When members of the Class of 2001 enter UBC this August their courses will have a new emphasis on ethics, social issues, critical thinking and computer and communications skills.

Courses will use a problem-based learning approach that integrates basic sciences and clinical studies to resemble real life situations more closely.

The new curriculum, which will also be taught to first- and second-year dentistry students, is a response to changes within the medical profession and in society as a whole, said Dr. Andrew Chalmers, associate dean of undergraduate curriculum.

"The old curriculum served us well, but dramatic changes in scientific knowledge, rising expectations in an era of decreasing resources and advances in our understanding of how adults learn have impelled us to make changes," he said.

As well as a firm grounding in the basics, students can expect some of these innovations:

- breast cancer survivors will help teach students how to break bad news to patients

- multiple sclerosis sufferers will invite students into their homes to learn what it is like to live with a chronic illness
- aboriginal health issues will receive special attention, and alternative and complementary medicine will be examined in their cultural context
- a new course called Doctor, Patient and Society will deal with issues of population health, health care systems, ethics and the doctor-patient relationship

The new curriculum is the culmination of a process that began in 1992 with external reviews and surveys of students, graduates and faculty members, Chalmers said.

A key aspect is its case-based course work, which is an approach to learning already adopted at most North American medical schools.

Until now, UBC has taken a traditional approach that focused for the first two years on basic sciences such as anatomy and biochemistry taught independently by different academic departments.

"The amount of basic science taught was significant and not focused on clinical issues. Once learned, students sometimes forgot how to apply it in the clinic. Our new approach is a student-centred curriculum rather than a faculty-centred one," Chalmers said.

Working in small groups, students will

See **DOCTORS** Page 2

Ecologist, rock physicist, garner research prizes

A leading researcher on small mammals and a rock physicist are winners of UBC's top research prizes for 1996.

Ecologist Charles Krebs, a professor in the Dept. of Zoology, is the recipient of the Jacob Biely Research Prize and Assoc. Prof. Rosemary Knight, with the Dept. of Earth and Ocean Sciences, has won the Charles A. McDowell Award for Excellence in Research. Knight is also among 10 recipients of UBC Killam Research Prizes.

Krebs has worked for 30 years in B.C. and the Canadian North studying the curious phenomenon of population cycles in, among other animals, lemmings and snowshoe hares.

It has been Krebs' belief that an understanding of what underlies the dramatic population cycles of the North will

yield clues to more complex systems in other parts of the world. He is currently writing up results from an intensive 10-year study of snowshoe hares in the Yukon (see story, page 8).

In terms of advancing international science and education, Krebs has been at the front of the debate on how behavioural, physiological and genetic attributes of animals affect populations and eventually determine the size of the population. The \$1,500 Biely prize is awarded annually for outstanding research in any field of study.

Knight's research in rock physics is aimed at gaining an understanding of the properties of rocks and fluids in the subsurface of the earth and the interactions between them. Apart from her in-

See **AWARDS** Page 2

Inside

Crime Stoppers

3

Safety features: A volunteer program aims to take the bite out of crime

Spruce Up

3

Replanted spruce are starving says botanist Herbert Kronzucker

Agile Aging

5

Conference looks at physical fitness issues facing an aging population

Hares Apparent

8

What is killing the snowshoe hares of the Arctic?

Doctors

Continued from Page 1

learn the fundamentals as they apply to particular cases. They will be encouraged to define what they need to know and go to experts, the library and the Internet to find and appraise the information.

"If students learn the basic science in the context of a clinical setting, they will be much more likely to understand and retain that knowledge," Chalmers said, adding that there

Awards

Continued from Page 1

novative theoretical and laboratory studies, Knight is recognized for investigating the use of field techniques such as ground-penetrating radar to look at groundwater flow and contaminants in the near surface.

Knight was named the Canadian Geophysical Union's Distinguished Lecturer for 1995 and is a consulting professor of geophysics at Stanford University. The McDowell award is given each year to a faculty member who has demonstrated excellence in the pure or applied sciences.

The university has also announced recipients of the Killam Research Prizes and another 13 faculty members who have won Killam fellowships.

The \$10,000 UBC Killam Prizes are awarded annually to top campus researchers. The prizes, established in 1986, are equally divided between the arts and sciences.

Recipients for 1996 are: Anthony Barrett, Classical, Near Eastern and Religious Studies; Jess Brewer, Physics and Astronomy; Melvin Comisarow, Chemistry; Michael Devereux, Economics; David Dolphin, Chemistry; George Hoberg, Political Science; Terry McGee, Geography; William Rees, Community and Regional Planning; and Stephen Withers, Chemistry.

Isaac Walton Killam Memorial Faculty Research Fellowships top up faculty salaries while they are on sabbatical leave by up to \$15,000. Scholars also receive a \$3,000 grant for research and travel expenses.

Fellowship winners for 1996 are: Craig Boutlier, Computer Science; Gillian Creese, Anthropology and Sociology; Michael Devereux, Economics; David Edgington, Geography; Peter Englezos, Chemical Engineering; S.G. Hatzikiakos, Chemical Engineering; Peter Seixas, Curriculum Studies; Jack Snoeyink, Computer Science; and Kay Teschke, Health Care and Epidemiology.

Learning

Continued from Page 1

and who may commit suicide is the amount of attention and help they receive from parents and the education system.

She will examine the known causes of learning disabilities and what can be done to address the problem during her address, Reconsidering Normal: Learning Disabilities in the Classroom, the second lecture in the Faculty of Education's series on important educational issues.

The lecture takes place at 7 p.m., Feb. 25 in the Robson Square Conference Centre. Respondents are Sandra Gebhardt, Learning Disabilities Association of B.C., and school psychologist Lorna Bennett. For more information, call 822-6239.

will still be labs and lectures where they are appropriate.

A system of regular evaluation will include weekly quizzes on the Internet to give students instant feedback on where their strengths and weaknesses lie.

Further curriculum changes will move the student clerkship to third year, giving them exposure to all areas of medicine before having to choose in fourth year whether to pursue family practice or a specialty.

The new curriculum will require some adjustments for faculty members as well. A Faculty Development Program is training instructors on how to write cases and act as tutors rather than lecturers, and multi-disciplinary teams are working together to develop new courses.

"I'm astounded people have been able to move so fast and so far," Chalmers said. "It has required a lot of energy and both faculty and students are to be congratulated on the work they've done."

The new curriculum drew praise from the newly appointed Dean of Medicine John Cairns, who is the former chair of Medicine at McMaster University.

"I have observed the strengths of the small group, student-oriented problem- and systems-based approach at McMaster for the past 20 years. The new UBC curriculum takes many steps beyond this. It will capitalize on UBC's recognized strengths and will become the most modern and forward-looking medical undergraduate curriculum in Canada," he said.

BUILDING OR GROUNDS TROUBLE?

Contact Plant Operations by phone, fax or e-mail to report any building or grounds maintenance item and request service.

Building or Grounds

phone: 822-2173

fax: 822-6969

e-mail: tc@plantops.ubc.ca

Exterior Lights Only

phone: 822-2173

fax: 822-6969

e-mail: lightsout@plantops.ubc.ca

please note number of lamp standard

*please give complete details including CONTACT NAME and NUMBER



THE UNIVERSITY OF BRITISH COLUMBIA

School of Family and Nutritional Sciences Director

A search is underway within and outside the University for candidates for the position of **Director of the School of Family and Nutritional Sciences**. The School delivers four undergraduate programs (Dietetics, Family Science, Home Economics, and Human Nutrition) and three graduate programs (MA in Family Studies, MSc and PhD in Human Nutrition). The School is an administrative unit in the Faculty of Agricultural Sciences. It offers programs in the Faculty of Arts and the Faculty of Science, and has linkages with the Faculty of Education.

Applicants should have a doctoral degree and an outstanding academic record in one of the program areas taught in the School, sufficient to sustain a tenured appointment at the rank of Professor; have proven administrative experience in a multidisciplinary unit; and have the ability to provide creative leadership for the School's diverse research and teaching programs.

More information is available from J. F. Richards, Dean, Faculty of Agricultural Sciences, #248-2357 Main Mall, Zone 4, to whom also applications or nominations should be sent no later than **February 15, 1997**. The University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities.

Berkowitz & Associates Consulting Inc.

Statistical Consulting

· research design · data analysis · sampling · forecasting

Jonathan Berkowitz, Ph.D.

4160 Staulo Crescent, Vancouver, B.C., V6N 3S2

Office: (604) 263-1508

Fax: (604) 263-1708

Wax - it

Providing Plastic and Wax sections for the research community

George Spurr RT, RLAT(R)

Kevin Gibbon ART FIBMS

Phone (604) 266-7359

Phone (604) 856-7370

E-mail spurrwax@univserve.com

E-mail gibbowax@univserve.com

The USE OF FREEDOM Essay Contest

"The Responsible Use of Freedom"



\$1000 for the best original essay

Eligibility: Open to 3rd and 4th year undergraduate and graduate UBC students

Deadline for submission: May 30, 1997

Winner announced: August 31, 1997

Application forms may be picked up Monday to Friday, 10 a.m. to 4 p.m. at St. Mark's College, 5935 Iona Drive, at the extreme northeast corner of the campus.



How do I get to ...?

Looking for directions to a building on campus?
Wondering when a UBC event is taking place?
Or who can answer your university-related question?

Call the UBC Information Line.

**UBC-INFO
(822-4636)**

M-F, 8:30 a.m. to 4:30 p.m.
6323 Cecil Green Park Rd.

Edwin Jackson

224 3540

Generous people are rarely mentally ill. 4524 West 11th Avenue, phone & drop in, Dr. Karl Meninger or by appointment, your place.

Financial, Retirement Income, Estate Planning

Term Deposits, RRSP/RRIF's
Competitive rates with leading financial institutions.

Mutual Funds
licensed through Ascot Financial Services Ltd.

Annuities, Life and Disability Income Insurance



UBC REPORTS

UBC Reports is published twice monthly (monthly in December, June, July and August) for the entire university community by the UBC Public Affairs Office, 310 - 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1. It is distributed on campus to most campus buildings and to Vancouver's West Side in the Sunday *Courier* newspaper.

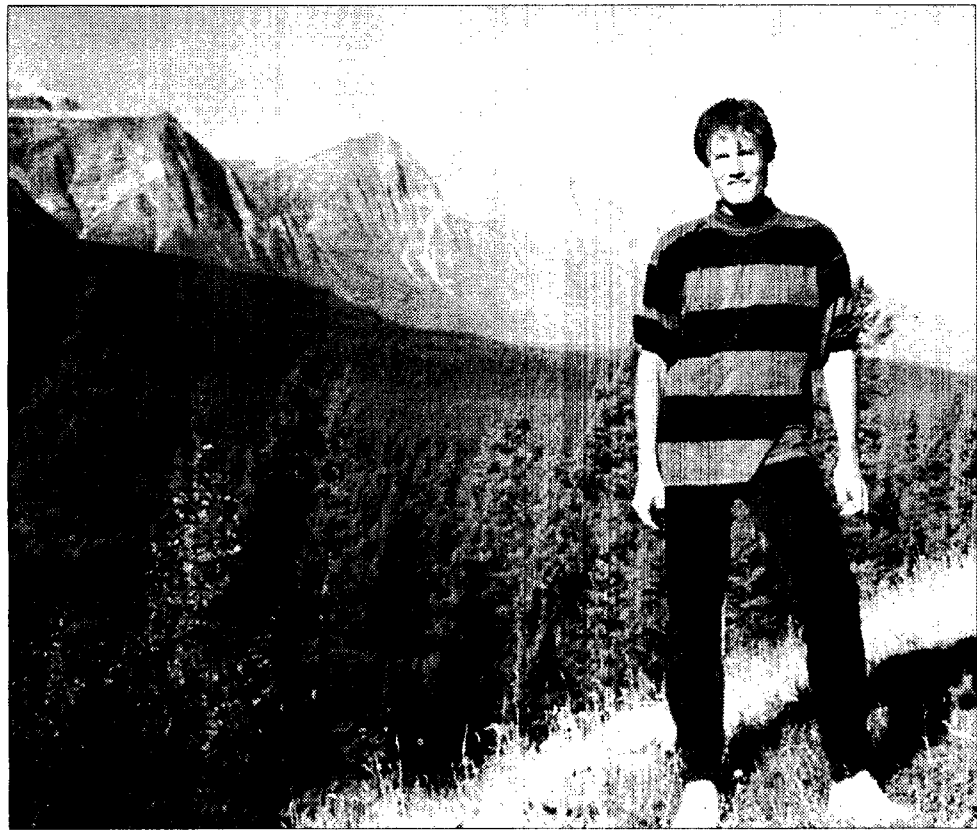
UBC Reports can be found on the World Wide Web at <http://www.ubc.ca> under News, Events and Attractions.

Managing Editor: Paula Martin ([paula.martin@ubc.ca](mailto:Paula.martin@ubc.ca))
Editor/Production: Janet Ansell (janet.ansell@ubc.ca)
Contributors: Connie Bagshaw (connie.bagshaw@ubc.ca), Stephen Forgacs (stephen.forgacs@ubc.ca), Charles Ker (charles.ker@ubc.ca), Gavin Wilson (gavin.wilson@ubc.ca).

Editorial and advertising enquiries: (604) 822-3131 (phone), (604) 822-2684 (fax).

UBC Reports welcomes the submission of letters and opinion pieces. Opinions and advertising published in UBC Reports do not necessarily reflect official university policy.

Material may be reprinted in whole or in part with appropriate credit to UBC Reports.



Herbert Kronzucker photo

Botanist Herbert Kronzucker believes the key to healthy spruce forests lies in their soil. In a paper published recently in *Nature*, Kronzucker cites the loss of necessary ammonium after clearcutting as a possible explanation for failures in reforestation efforts. Weed trees, such as aspen, which thrive on nitrates, often edge out spruce seedlings in replanted areas.

Botanist cites nitrogen in reforestation failure

by Charles Ker

Staff writer

Hiking through Colorado's San Juan Mountains almost 10 years ago, botanist Herbert Kronzucker was presented with a picturesque puzzle: to his left arose a mountainside of blue spruce; to the right, a slope of trembling aspen.

A ranger mentioned that the aspen side had been logged 15 years earlier and replanted with young spruce seedlings. But if the spruce thrived before, thought Kronzucker, why were they being so totally out-competed by aspen?

After nearly a decade of research, the UBC-based scientist thinks he's found an answer, one which may have dramatic implications for B.C.'s efforts at reforestation.

A paper of Kronzucker's, based on his UBC PhD thesis, appeared in the Jan. 2 issue of the science journal, *Nature*. The paper states that a different form of nitrogen found in clearcut areas from that found in mature forests, combined with spruce's inability to make use of that form of nitrogen, might be a very important factor in determining the success of replanting conifers. The paper also says that in B.C. alone, the replanting has failed on more than one-and-a-half-million hectares.

Soil samples taken from under the Colorado spruce and aspens were analysed and found to contain different types of nitrogen, the most important of plant nutrients. Ammonium was the chemical variation of nitrogen found under the spruce while nitrate predominated under the aspens.

Kronzucker, a visiting scientist in UBC's Dept. of Botany, explains that when a forest undergoes a clearcut, forest fire or landslide, the population of micro-organisms in the soil changes. Gone are the conifers which used to shed their needles and leave behind a class of acidic compounds known as phenolics. This forest litter leaches into the soil over time and has been shown to be highly toxic to certain micro-organisms.

As the phenolics are washed away by rain, new bacteria gain a foothold in the clearcuts and convert nitrogen from its previous form of ammonium to nitrate — a form foreign to conifers.

"In the course of evolution somehow these species (conifers) adapted to ammonium as their one source of food and lost the ability to use nitrate," says Kronzucker. "White spruce seedlings replanted in B.C. are being forced to try to grow on the wrong food."

Kronzucker says his nitrogen hypothesis holds true in soil samples taken from forests in Sweden, Norway and his home country, Germany.

Kronzucker proved his theory in a UBC botany lab where he grew white spruce seedlings hydroponically. He then fed the seedling roots cocktails of ammonium and nitrate with a radioactive tracer produced by the TRIUMF cyclotron. The tracer allowed Kronzucker and colleagues to measure exactly how the roots transported and stored ammonium and nitrate. They found white spruce seedlings consumed up to 20 times more ammonium than nitrate.

Botany Prof. Tony Glass, in whose lab Kronzucker undertook his PhD studies, says Foster Renewal B.C. is funding further comparative studies looking at aspen, white spruce, Douglas fir and lodgepole pine. Results, so far, indicate that aspen seedlings prefer nitrate and the others, ammonium. Future plans in the UBC lab entail changing the genetic code of spruce seedlings using genes from species whose roots take up nitrates more readily.

Kronzucker suggests, short of a profound change to current forest practices away from large-scale clearcutting, a wheat or barley mulch may be an answer to the problem. Tissues in these mulches contain the phenolics which would prohibit nitrate production and help regenerate ammonium in severely disturbed areas.

The appearance of Kronzucker's paper in *Nature* touched off a fire-storm of media interest from no less than 17 major daily newspapers in Europe as well as the *Christian Science Monitor*.



Safety features

Crime prevention program

Volunteers help reduce campus crime

by Connie Bagshaw

Staff writer

Despite the common perception that assaults are the most frequently occurring crime on campus, property offences remain the most reported incidents at UBC.

In 1996, UBC's Dept. of Parking, Transportation and Campus Security received 212 reports of property crimes compared to 13 reports of sexual offences.

Computer theft accounts for most of the property loss sustained by campus, last year totalling more than \$100,000.

As part of its on-going efforts to curb theft, break and enter and property damage at UBC, campus security is collaborating with the university detachment of the RCMP to introduce a prevention program based on the principle of knowing your environment in order to create a defensible space and optimize security.

Developed in the United States in 1969, the Crime Prevention Through Environmental Design (CPTED) program is used at institutions and in private households across North America.

"UBC's Campus Planning and Development is mindful of CPTED principles in designing new buildings, but there are a great majority of buildings on campus which were not designed to prevent crime," said RCMP Staff Sgt. Fred Barbour.

Building security and theft reduction begin with recognizing whether or not you have provided an opportunity for the offender to be motivated to act, he explained.

That's why volunteers among the faculty, staff and students are being recruited to serve as security co-ordinators, responsible for conducting building risk assessments in their areas using CPTED concepts.

"We encourage each building on campus to appoint a security co-ordinator," Barbour said. "Their main role is to create awareness within their work environments by alerting people to anticipate and recognize potential security risks. They also act as a liaison — someone that colleagues can report problems or pass on suggestions to."

To achieve a successful building risk assessment, the CPTED program advocates analysing who the potential victims and criminals are, what kind of crime is possible and where and when it may occur.

This type of analysis helps define the problem, determine the necessary level of intervention and identify what assistance is available, Barbour said.

CPTED principles recommend that both outside and inside risks to buildings be assessed. Outside security measures may include trimming trees and shrubs to improve sight lines and improving lighting. Inside buildings, occupants may consider installing motion detection alarms in high risk areas, upgrading locks on doors and windows and securing computers and other valuable equipment with tie-downs or tamper-proof screws and cables.

For more information on volunteering as a security co-ordinator for your area, fax your request to the attention of Patrol Manager Rita Aitken at 822-3541.

Campus saddened by loss of long-time friend

by Connie Bagshaw

Staff writer

Helen Belkin, a long-time friend and patron of UBC, has died at the age of 77.

"Helen Belkin's work and presence in a quiet, sincere way enhanced the image of UBC, British Columbia and Canada," said UBC President David Strangway. "Those who knew Helen and her late husband Morris will tell you that they practiced a dedicated partnership in all their works."

Belkin's association with the university spanned more than half a century. A UBC alumna, she earned a Bachelor of Arts degree in English and History in 1940.

She also served as secretary to UBC President Norman MacKenzie for seven years and later to UBC's Board of Governors. Between 1983 and 1987, she was a member of the UBC Senate.

Belkin's generosity and commitment were admired throughout the community and the university. She was involved in numerous charitable organizations including the United Way and

the Volunteer Bureau of Greater Vancouver, as a supporter of the Vancouver Symphony and as a member of TRIUMF's board of management.

Belkin's lifelong support of her alma mater included a gift to build an art gallery to provide young local talent with a venue for their first major showings. On June 17, 1995, the Morris and Helen Belkin Art Gallery opened its doors to the public.

At the official opening, Belkin said that the new gallery celebrated the vision which her late husband and MacKenzie shared of one day having a fine arts precinct at the north end of the campus.

In addition to her support for the gallery, Belkin was also responsible for the establishment of the Morris and Helen Belkin Art Gallery Operating Endowment which sponsors curatorial activities as well as lectures and symposia.

Her tireless devotion to her community and enduring affection for the university were recognized with an honorary degree awarded in 1990.



Helen Belkin

Calendar

February 9 through February 22

Monday, Feb. 10

Engineering and Architecture Continuing Education Workshop

Building Code And Certified Professional Course. Point Grey Golf and Country Club, 9:30am-5:30pm. Continues Mondays to April 21. \$1850. Call 822-3347.

Keith Clifford Memorial Lecture

Athens And Jerusalem: The New Relationship Between Theologians And Their Churches. Prof. Tom Faulkner, Dalhousie U. Buchanan D-244, 12:30pm. Call 822-2515.

Mechanical Engineering Seminar

Friction Welding Of Incompatible And Ceramic Materials. Farrokh Sassani, Mechanical Engineering, CEME 1204, 3:30-4:30pm. Refreshments. Call 822-3904.

Modern European Studies Colloquium Series

Three Tales, Four Cities: Conrad, Dickens, Dostoyevsky. Andrzej Busza, English, Buchanan penthouse, 3:30-5pm. Call 822-5969.

Astronomy Seminar

Cataclysmic Variables. Tim Davidge, Dominion Astrophysical Observatory, Hennings 318, 4pm. Refreshments at 3:30pm. Call 822-2802.

Zoology/Comparative Physiology Seminar

High Performance Ventilation. Don McKenzie, Sports Medicine, BioSciences 2449, 4:30pm. Refreshments. Call 822-3372.

Resident Speaker Series

Small Rocks, Big Problems: The Spratly Islands Conflict In Southeast Asia. Xavier Furtado, Political Science, Green College, 5:30pm. Call 822-6067.

Green College Science and Society Lecture

If This Be Error: Probing Experiment With Error. Giora Hon, Philosophy, U of Haifa, Green College, 8pm. Call 822-6067.

Tuesday, Feb. 11

Humanist's Society Lecture
Humanism And Sociobiology. Pat Duffy Hutcheon, formerly of Health and Welfare Canada, Buchanan D-205, 12:30pm. Call 739-9822.

Botany Seminar

A Computer Simulation Of Two Algal Species In The High Intertidal. Nickolas Grabovac, MSc candidate, BioSciences 2000, 12:30-1:30pm. Call 822-2133.

Lecture in Modern Chemistry

The Continuing Saga Of Dinitrogen Activation. Prof. Mike Fryzuk, Chemistry B-250 south wing, 1pm. Refreshments from 12:40pm. Call 822-3266.

Centre for Educational Technology Multimedia Seminar

Watershed Management CD-ROM And WebCT On-Line Support For Biology Course. Hans Schreier, Institute for Resources and Environment and Shona Ellis, Botany, Telecentre, University Services, 1-2pm. Call 822-1851/822-3062.

Oceanography Seminar

Dynamic Response Of The Atmosphere To Desert Dust Aerosols And Its Implications For Climate Change. Ron Miller, Co-

lumbia U. BioSciences 1465, 3:30pm. Call 822-1814.

Statistics Seminar

When Is A Probability Measure Determined By Infinitely Many Projections? Claude Belisle, Laval U. CSCI 301, 4-5:30pm. Refreshments. Call 822-0570.

Green College Speaker Series

Sport, Gender And The Construction Of Difference. Or "Why Boys Will Be Boys And Girls Will Not." An Analysis From Women's Ice Hockey. Prof. Nancy Theberge, Sociology, U of Waterloo, Green College, 5:30pm. Reception in Graham House 4:45-5:30pm. Call 822-6067.

Centre for Faculty Development Seminar

Promotion And Tenure At UBC. Joanne Emerman, Bill Webber, Gloria Joachim and Rosanne Hood, Great Hall, First Nations House of Learning, 5:30-7:30pm. Refreshments. Call 822-0831.

Engineering and Architecture Continuing Education Seminar

Anatomy Of A House (In Cantonese). CEME 1202, 6:30-9:30pm. Continues Tues. and Thurs. to March 11. \$520. Call 822-3347.

UBC Pacific Rim Club Club Annual Wine and Cheese

Vancouver: At The Forefront Of The Pacific Age. Michael Harcourt, Sustainable Development, Tom Crowe, BC Film Commission, Hyatt Regency Hotel, 6:30-8:30pm. \$18 non-members, \$15 members. Call 822-6401.

Wednesday, Feb. 12

Your UBC Forum

The Purpose Of A University Education: Does UBC Meet Your Expectations. Maria Klawe, VP, Student and Academic Services, SUB Conversation Pit, 12:30-2pm. Call 822-6799.

Noon Hour Concert

Lawrence Cherney, oboe. Henry Bok, clarinet. Music Recital Hall, 12:30pm. \$3 at the door. Call 822-5574.

Faculty Financial Planning Lecture Series

RSPs, LIFs, RIFs And You. Jim Rogers, The Rogers Group, Angus 104, 12:30-1:20pm. Call 822-1433.

Comparative Literature, Vancouver Writers and Programme for European Studies

Meeting Of The Mafias: Aesthetic Responses To Organized Crime In American, French, And Italian Cinema. Mark Harris, Comparative Literature, Green College, 3pm. Call 822-6067.

Ecology & Centre for Biodiversity Research Seminar

How Ants Decide And Colonies Act. Deborah Gordon, Stanford U. Family/Nutritional Sciences 60, 4:30pm. Refreshments. Call 822-3957.

Respiratory Research Seminar Series

Proteoglycans In Lung Inflammation And Remodelling. Dr. Clive Roberts, Respiratory Division, Vancouver Hospital/HSC, 2775 Heather St., 3rd floor conference room, 5-6pm. Call 875-5653.

Cultural and Media Studies Interdisciplinary Group

Genderlessness, Masking And The Inuit. Karla Jessen Williamson, U of Saskatchewan, Green College, 5:30pm. Call 822-6067.

Thursday, Feb. 13

Science First! Lecture Series

A Triumph Of Modern Mathematics: Fermat's Last Theorem. Rajiv Gupta, Mathematics, IRC#6, 12:30-1:30pm. Discussion to follow. Call 822-5552.

Botany Department Seminar

A Taxonomic Study Of The Marine Macroalgae Of North Sulawesi, Indonesia. Tania Thenu, MSc candidate, BioSciences 2000, 12:30-1:30pm. Call 822-2133.

Food Science Seminar

High Pressure Bioscience And Its Application To Food Science. Prof. Yoshihiro Taniguchi, Chemistry, Ritsumeikan U. Food Science 37, 12:30-1:30pm. Call 822-6182/822-3404.

Earth & Ocean Studies Seminar

Dine Bikeyah 101: Geoscience Education In A Navajo Cultural Context. Steve Semken, Navajo Community College, New Mexico, GeoSciences 330A, 12:30pm. Call 822-3466/822-2267.

Joan Carlisle-Irving Lecture Series

Genderlessness And Inuit Mask Making. Karla Jessen Williamson, U of Saskatchewan, Lasserre 102, 12:30pm. Call 822-2757.

Anthropology and Sociology Colloquium Series

The Anthropology Of Apprenticeship. Denise Nuttall, ANSO 207/209, 12:30-1:30pm. Call 822-2878.

Concert

Instrumental Collegium Musicum. John Sawyer, director. Music Recital Hall, 12:30 and 8pm. Call 822-3113.

Anatomy Lecture

Mechanisms Of Muscle Injury And Repair: Deflazacort And NMR Spectroscopy In Muscular Dystrophy. Dr. Judy Anderson, U of Manitoba, Friedman lecture hall, 2:30pm. Call 822-2578.

Environmental Engineering Seminar

Upgrades To Vancouver Drinking Water Treatment System. Mark Ferguson, GVRD, CEME 1215, 3:30-4:30pm. Refreshments. Call 822-2637.

CICSR Distinguished Lecture Series

Implicit Numerical Integrators For Differential Algebraic Equations Of Mechanical System Dynamics. Prof. Edward Haug, U of Iowa, CICSR/CS 208, 4-5:30pm. Refreshments. Call 822-6894.

Genetics Graduate Program Seminar

Expression And Characterization Of A Recombinant Human Factor X/Protein C Chimeric Protein. Leisa Stenberg, PhD candidate, Biochemistry and Molecular Biology, Wesbrook 201, 4:30pm. Refreshments at 4:15pm. Call 822-8764.

Continuing Studies Lecture

Continent Of Dreams: A History Of The Imagination. Leonard George. Continues Thursdays to April 3 (no class March 20). Carr Hall conference room, 7:30-9:30pm. \$135 (seniors, \$115). Call 822-1450.

Poetic Persuasions

Readings Of Original, Creative Works Followed By An Open Forum. Green College, Reception Room, Graham House, 8pm. Everyone welcome to listen or read. Call 822-6067.

Friday, Feb. 14

Pediatrics Grand Rounds

Developing And Implementing A Clinical Pathway. Dr. Paul Korn, General Pediatrics, Dr. Judith Hall, Pediatrics and Dewey Evans, Utilization Management/Quality Assurance, GF Strong auditorium, 9am. Call 875-2307.

Health Care & Epidemiology Rounds

East/West Life Expectancy Gap In Europe. Dr. Clyde Hertzman, Mather 253, 9-10am. Call 822-2772.

Occupational Hygiene Program Seminar Series

Employment In Environmental Management: ISO 14.000. John Sproul, Research Institute/Fisheries Centre, Vancouver Hospital/HSC, Koerner Pavilion G-279, 12:30-1:30pm. Call 822-9595.

Concert

UBC Contemporary Players, Stephen Chatman/Eric Wilson, directors. Music Recital Hall, 12:30pm. Call 822-3113.

Chemical Engineering Weekly Seminar

High Temperature Biological Wastewater Treatment. Judy Tai, MSc candidate, Chemical Engineering, Chemical Engineering 206, 3:30pm. Call 822-3238.

Theoretical Chemistry Seminar

Phospholipid Bilayers In Aqueous Solution: What Determines Vesicle Shape And Shape Transitions? M. Wortis, Physics, SFU, Chemistry D-402 centre block, 4pm. Call 822-3266.

Saturday, Feb. 15

Vancouver Institute Lecture
Brains, Genes And Society. Dr. Max Cynader, Ophthalmology, IRC #2, 8:15pm. Call 822-4636

Sunday, Feb. 16

Spirit of Tibet Days

Tibetan Food, Dancers, And Arts And Crafts. MOA, 12-4pm. Call 822-5087.

Monday, Feb. 17

Asian Street Foods Festival

The Carpark In The CK Choi Building Introducing Asian Street Foods. Gisele Yasmeen, Geography, and Donna Yeung, SCARP, CK Choi lounge, 11am-2pm. Continues to Feb. 21. Street foods will be sold at lunch time. Slide presentation and lecture on Asian Street foods from 1-2pm. Call 822-2629.

Resident Speaker Series

Who's Afraid Of Michel Foucault? Theory As Political Action. Mark Salter, Political Science, Green College, 5:30pm. Call 822-6067.

Tuesday, Feb. 18

Continuing Education Art of Career Search

Workshop. Various speakers. Continues to Feb. 21. 220-800 W. Pender, 9am-noon. \$250 (for full-time students), \$500 (others). Cost includes personal assessment, course notes and certificate of attendance. To register call 822-1884, fax 822-0688.

Tibetan Film Screenings

Tibetan Book Of The Dead, Part 1. MOA, 7-9pm. Call 822-5087.

Wednesday, Feb. 19

Respiratory Research Seminar Series

Can There Be Life With LIF? Dr. Darryl Knight, Pulmonary Research Laboratory, Vancouver Hospital/HSC, 2775 Heather St., 3rd floor conference room, 5-6pm. Call 875-5653.

Senate

The Sixth Regular Meeting Of Senate, UBC's Academic Parliament. Curtis 102, 8pm. Call 822-2951.

Thursday, Feb. 20

Distinguished Industrial Lecture

A Ball Grid Array Package For High-Speed Digital Applications. Arthur Murphy, DuPont Co. CICSR/CS 208, 3:30-4:30pm. Refreshments at 4:30pm. Call 822-6291.

Genetics Graduate Program Seminar

Molecular Biology Of Rubella Virus Structural Proteins. Dr. Shirley Gillam, Pathology, Wesbrook 201, 4:30pm. Refreshments at 4:15pm. Call 822-8764.

Distinguished Industrial Lecture

Research In Japan. Arthur Murphy, DuPont Co. CICSR/CS 208, 5-6pm. Refreshments at 4:30pm. Call 822-6291.

Critical Issues in Global Development Speaker Series

The Modernism Of Underdevelopment: The City Of Mexico In The Age Of Diaz. Michael Johns, Geography, U of California-Berkeley, Green College, 8-9:30pm. Call 822-1954.

UBC REPORTS

CALENDAR POLICY AND DEADLINES

The UBC Reports Calendar lists university-related or university-sponsored events on campus and off campus within the Lower Mainland.

Calendar items must be submitted on forms available from the UBC Public Affairs Office, 310-6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1. Phone: 822-3131. Fax: 822-2684. An electronic form is available on the UBC Reports Web page at <http://www.ubc.ca> under 'News.' Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space.

Deadline for the February 20 issue of UBC Reports — which covers the period February 23 to March 8 — is noon, February 11.

Calendar

February 9 through February 22

Friday, Feb. 21

Health Care and Epidemiology Rounds
Attitudes Of Canadian Physicians Towards Physician-Assisted Suicide For Persons With HIV/AIDS. Dr. Robert Hogg, HIV/AIDS Treatment Program; Katherine Heath, BC Centre for Excellence in HIV/AIDS. Mather 253, 9-10am. Call 822-2772.

Pediatrics Grand Rounds
Eating Disorders In Children And Adolescents: The Present And Future Trends At BC's Children's Hospital. Dr. Jorge Pinzon, Pediatrics; Ronald Manley Eating Disorders Program. GF Strong auditorium, 9am. Call 875-2307.

Saturday, Feb. 22

Christian in the Marketplace Annual Conference
The Paradox Of Success. Art DeFehr, Palliser Furniture Ltd.; Soo-Ann Lee, Regent College board member; Skip Li, Eilis, Li and McKinsky; Rikk Watts, Regent College; Paul Stevens, Applied Theology, Regent College Chapel, 8am-4pm. \$55 individual, \$90 couple, \$30 full-time students and seniors. Call 224-3245.

Vancouver Institute Lecture
From The Ground Up: Designing And Building A New City In China. Bing Thom, Bing Thom Architects. IRC#2, 8:15pm. Call 822-4636.

Notices

Volleyball
Faculty, staff and grad student volleyball group. Every Monday and Wednesday, Osborne Centre, Gym A, 12:30-1:30pm. No fees. Drop-ins and regular attendees welcome for friendly competitive games. Call 822-4479 or e-mail: kdcs@unixg.ubc.ca.

Fun and Fitness
UBC Community Sport Services offers adult ballet, gymnastics and ice hockey classes for beginners. No experience is necessary. Call 822-3688.

Morris and Helen Belkin Art Gallery Exhibition
Exhibition by Vancouver artist Mino Totino, Jan. 10-March 1, 1997. Gallery hours Tuesday - Friday, 10am-5pm; Saturday, 12-5pm. 1825 Main Mall. Call 822-2759.

Surplus Equipment Recycling Facility
Weekly sales of furniture, computers, scientific etc. held every Wednesday, noon-5pm. SERF, Task Force Building, 2352 Health Sciences Mall. Call 822-2582.

Faculty Development
Would you like to talk with an experienced faculty member, one on one, about your teaching concerns? Call the Centre for Faculty Development and Instructional Services at 822-0828 and ask for the Teaching Support Group.

Psoriasis Laser Study
Volunteers needed. The UBC Division of Dermatology is seeking volunteers with psoriasis. We are testing a potential new laser therapy for psoriasis. Volunteers who complete the treatments and follow-up visits will receive a stipend. Call 875-5254.

Garden Hours
Botanical Garden and the Shop-in-the-Garden, 10am-5pm daily. Call 822-9666 (gardens), 822-4529 (shop). Nitobe Memorial Garden open 10am-2:30pm weekdays only.

Parents with Babies
Have you ever wondered how babies learn to talk? Help us find out! We are looking for parents with babies between one and 24 months of age to participate in language development studies. If you are interested in bringing your baby for a one-hour visit, please call Dr. Janet Werker's Infant Studies Centre, Dept. of Psychology, 822-6408 (ask for Dawn).

Diabetes 1997 Conference
The Young Diabetic. Inter-professional continuing education conference will take place Friday, April 4 and Saturday, April 5, 1997 in Vancouver for all health professionals interested and involved in diabetic care. Call 822-2626.

Parent Care Project
Daughters/daughters-in-law who are caring for a parent in a care facility are needed for a counselling

psychology study on the challenges women face in parent care. Involves individual interviews/questionnaire. Call Allison at 822-9199.

Feeling Stressed at Work?
Lower Mainland Clerical Workers: Explore your Coping Skills! Psychologists at UBC are seeking female volunteers to participate in a research study on clerical workers' stress. The aim of this project is to understand how female clerical workers respond to work-related stress, from day to day over the course of three months. The information from the questionnaires will be kept confidential and anonymous. A summary of the group results will be provided at the completion of the study. If you would be willing to participate in this study, or if you have any questions, please call Kamaljit Sidhu or Marlene Barber at 822-9199 (Stress Lab).

UBC Food Services
Celebrate Chinese New Year at Yum Yum's and other Food Service locations. Watch for "Cookiegrams" for your Valentines in February. Last day to place your order is Feb. 12. Call 822-3663.

Continuing Education in the Health Sciences Conference
Breast Cancer: Myths and Realities. March 7 and 8, 1987. Waterfront Centre Hotel, Vancouver, BC. Registration 7:30am. Presentation 8:30am. Registration before Feb. 17, \$150. After Feb. 17, \$175. One

day registration available. For further information call (604)822-2626. Fax: (604)822-4835.

Do You Suffer From PMS?
Recruiting volunteers for study. Must be 18-35 yrs., marked PMS, otherwise in good health, no sleep problems, no shift workers, no medications, non-smokers. Involves two overnight sleep studies in your home. Honarium \$100. Call Carolyn at Sleep Disorders Program, 822-7927.

Future Use: Child Study Centre Building
UBC Child Care Services is preparing a proposal regarding the future use of the Child Study Centre Building. Our intention is to provide a variety of part-time programs such as kindergarten, preschool, and/or toddler daycare beginning September 1997. To help us develop our proposal, we are seeking comments on which services might provide the maximum benefit to the university community, and how those services might be offered most effectively. Please submit your suggestions to the Child Care office before February 21, 1997. For more information, call Darcelle Cottons at 822-6238, fax 822-9195. Campus Mail, Zone 3.

Calendar deadline: noon, Feb. 11

Keeping fit while aging focus for int'l conference

North America's top authorities on fitness and aging will gather at UBC Feb. 21-23 for the Strength and Conditioning International Conference.

Entitled Changing Aging and Training the Master's Athlete, the conference will address a broad range of issues associated with physical health, fitness, training and the aging population. Conference speakers range from doctors and medical researchers to coaches and fitness trainers.

"Fitness professionals and the public are becoming increasingly aware of the importance of exercise in the aging process," said conference organizer Sonya Lumholst-Smith, co-ordinator of Campus Recreation and Fitness at UBC. "Programs aimed at helping people remain fit as they age are springing up across North America. This conference reflects the importance of this movement, beyond just trend status, and UBC's commitment to staying at the forefront of it."

Dr. Walter Bortz, past president of the American Geriatrics Society and co-chair of the American Medical Association Task Force on Aging, will open the conference as the first of three keynote speakers. Bortz is a specialist in internal medicine and clinical associate professor of medicine at Stanford

University and author of *Dare To Be 100*. He is also a marathon runner with 22 marathons behind him.

Ken Kambis, an exercise physiologist and director of the Borgenicht Program for Aging Studies and Exercise Science at Virginia's College of William and Mary, will give a keynote talk entitled Living Proof - Regaining Strength, Flexibility and Endurance. Kambis holds several other academic appointments and also works as a consultant specializing in exercise equipment and training facilities for retirement communities.



The third keynote speaker is Judy Glenney, an athlete and coach recognized for her contribution to and knowledge of the sport of weightlifting. A pioneer in women's weightlifting, Glenney has won four U.S. national championships and continues to compete as a master's athlete. She is the commissioner for the 1998 Nike World Master's Games to be

held in the U.S.

Other speakers include power training and fitness expert Bill Pearl, author of *Getting Stronger*; Canadian adventurer Don Starkell of Winnipeg who canoed from Winnipeg to the mouth of the Amazon River and also completed a solo journey by canoe from Churchill, Man., to Tuktoyaktuk, N.W.T.; and Prof. Ben Hurley, one of North America's leading researchers on health aspects and risk factors associated with strength training and older adults.

Prof. Mike Houston, director of UBC's School of Human Kinetics, will also speak at the conference. Houston has a specific interest in the role of training and nutrition in promoting fitness and how this role changes through all stages of life. He has coached and trained many top athletes and teams at the university level. He has also trained professional teams including the Montreal Canadiens and New York Rangers.

Lumholst-Smith said the conference will be of particular interest to professionals in fitness and training, and to doctors, medical researchers, health care workers and others with an interest in fitness and aging. For further information call the conference hotline at 224-0227.

Street food comes to CK Choi lobby

Juicy Hainan chicken rice, spicy rendang and sizzling satay. These are some of the culinary delights offered during a series of monthly festivals of Asian street foods and cultural events at the Institute of Asian Research (IAR).

The week-long festivals start this month and mark the one-year anniversary of the institute's move to the CK Choi building.

Plans are to convert the Choi building lobby into a modern version of "The Carpark," a Singapore tourist attraction in the late 1960s and early 1970s.

"It was a parking lot during the day and a food festival at night," IAR's Eleanor Laquian

explains. "At around 6 p.m. the food vendors would arrive with their carts, and set up kitchens all over the place and tourists would come and eat."

As part of its community outreach program this year, the IAR will revive the street food tradition Monday to Friday on the following dates: Feb. 17-21, March 17-21 and April 14-18. Festivals take place from 11 a.m. to 2 p.m. with cooking demonstrations and information about street food.

Ethnic community associations and local Asian restaurants will cater lunches offered at \$6 per meal. That includes taxes and all the tea in China.

Campus tops United Way goal

Organizers of UBC's United Way campaign are all smiles following the latest report on contributions which shows a total of \$301,543, surpassing the campaign goal of \$290,265.

The campaign ended officially Nov. 30, but contributions have continued to come in.

"Every year, people at UBC show their generous spirit," said campaign co-chair Margaret Sayer of University Computing Services. "And we're number one again in Leaders of the Way."

Leaders of the Way are donors who contribute \$1,000 or more. The university has continued its traditional top ranking among Lower Mainland organizations, with 63 leadership donors this year. UBC also has the largest employee campaign in the Lower Mainland.

Sayer shared chairing duties with Prof. Ray Hall of Theatre, Film and Creative Writing. The campus campaign was organized by faculty, staff and student volunteers.

News Digest

The name of the Dept. of Electrical Engineering in the Faculty of Applied Science will be changed to the Dept. of Electrical and Computer Engineering. Senate approved the change Jan. 16.

Department Head Robert Donaldson said the change was made to delineate more clearly the department's role and activities, especially in computer engineering. During the past several years, more than half of the 400 undergraduate students enrolled in the Electrical Engineering Dept. opted for the computer engineering program.

Research in computer engineering ranges from very detailed device design to high levels of abstraction in electronic hardware, software and systems design and analysis. A substantial number of graduate students are involved in aspects of computer engineering research.

Five full-time equivalent engineering faculty members work directly in computer engineering and several others work in closely related areas. A search for additional computer engineering faculty members continues.

.....

UBC, in partnership with Queen's University, the University of Toronto and the University of Western Ontario, is offering a first in cooperative international education: the Canadian University Study Abroad Program (CUSAP).

Based at the International Study Centre at Herstmonceux Castle in East Sussex, England, the program marks a new direction in undergraduate student education in Canada.

"This program is unique in that it provides an opportunity for UBC students to study in Europe for one or two semesters, with the assurance that the courses taken can all be applied toward a UBC degree," said Sidney Mindess, associate vice-president, Academic.

In addition to courses designed primarily for third- and fourth-year students in humanities, social sciences, law or business, an English as a Second Language program will run concurrently during the academic year and a first-year option will also be available, featuring small seminar classes and an internationally focused curriculum.

UBC and its founding partners will be responsible for program development, student recruitment and staffing.

Discussions are currently underway with universities in Quebec and the Maritimes to expand national membership in the program.

Students are being invited to apply to CUSAP for the 1997/98 academic year. For more information, call Thevi Pather, UBC's student exchange program coordinator at 822-9613.

Classified

The classified advertising rate is \$16.50 for 35 words or less. Each additional word is 50 cents. Rate includes GST. Ads must be submitted in writing 10 days before publication date to the UBC Public Affairs Office, 310 - 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1, accompanied by payment in cash, cheque (made out to UBC Reports) or internal requisition. Advertising enquiries: 822-3131.

The deadline for the February 20, 1997 issue of UBC Reports is noon, February 11.

Accommodation

POINT GREY GUEST HOUSE A perfect spot to reserve accommodation for guest lecturers or other university members who visit throughout the year. Close to UBC and other Vancouver attractions, a tasteful representation of our city and of UBC. 4103 W. 10th Ave., Vancouver, BC. V6R 2H2. Phone or fax (604)222-4104.

TINA'S GUEST HOUSE Elegant accom. in Pt. Grey area. Minutes to UBC. On main bus routes. Close to shops and restaurants. Inc. TV, tea and coffee making, private phone/fridge. Weekly rates available. Tel: 222-3461. Fax:222-9279.

GREEN COLLEGE GUEST HOUSE. Five suites available for academic visitors to UBC only. Guests dine with residents and enjoy college life. Daily rate \$50, plus \$13/day for meals Sun.-Thurs. Call 822-8660 for more information and availability.

BROWN'S BY UBC B&B. Comfortable and relaxing accommodation close to UBC in quiet area. Quality breakfasts, queen-sized beds, private bath available. Satisfaction is assured for your friends or professional guests. Reasonable rates. 222-8073.

Accommodation

PENNY FARTHING INN 2855 West 6th. Heritage House, antiques, wood floors, original stained glass. Ten minutes UBC and downtown. Two blocks from restaurants, buses. Scrumptious full breakfasts. Entertaining cats. Views. Phones in rooms. Call (604)739-9002. E-mail: farthing@uniserve.com.

PANORAMIC VIEW HOME. 3B/R+ nanny unit. Fully furnished. Available for approximately 18 months lease. \$3600/m + utilities (no pets, no smoking). Tel. 738-8717 or fax 738-0810.

LARGE, ONE BEDROOM SUITE. above-ground basement, semi-furnished, separate entrance, available immediately. Eleventh Avenue, near Crown. N/S, no furry pets. \$625/month, utilities included. 224-4241.

2 BEDROOM KITSILANO TOWNHOUSE. Unfurnished. 1 1/2 bathrooms. 4 appliances incl. washer/dryer. Gas fireplace. Sundeck/small yard. 15 min. by car from UBC. Avail. March 1 or April 1. \$1,475 a month. Prefer non-smoker. No children. No pets. References required. Call days 660-1308 or evenings 733-7084.

BEAUTIFUL, BRIGHT, NEW, 2BR suite in house. Large closets. Gas fireplace. Cable, laundry, utilities, included. \$500 and \$450. On Angus Drive, south Granville. Non-smoker. No pets. Available immediately. This is a must-see. 266-3515.

WHISTLER/BLACKCOMB new luxury condo on Blueberry, view of ski-runs. 2 bedrooms, hide-a-bed, 2 bath. Beside x-country skiing on valley trails. Five mins. to Blackcomb gondola. Special rates for mid-week or week-occupancy. Available mid-term break. NS/NP. Phone 263-5180.

Housing Wanted

RESPONSIBLE, PROFESSIONAL WOMAN, 40's, UBC grad, returning to Vancouver to work wishes to house/apt./condo sit - preferably West Side or D/T while seeking permanent accommodation. Dates flexible - March 15 to Sept. 1 or can consider one year. Please fax Janis Connolly in Taiwan at 886-2-741-3898 or phone at 886-2-776-1073.

Services

UBC FACULTY MEMBERS who need independent assistance in selecting the most appropriate UBC Faculty pension or retirement options call Don Proteau, RFP or Doug Hodgins, RFP at 687-7526 for more information. Independent financial advice for faculty members since 1982.

LOOKING AND FEELING GREAT. If you know anybody who is serious about losing weight I have the best weight loss program that works! All natural. Call Kay or Kazuko at 325-3554.

EDITOR/GHOST WRITER. Experienced editor and ghost writer for hire. Ph.D in Literature. Services range from proof-reading and editing finished manuscripts to restructuring, rewriting and ghostwriting. Structure my specialty. Reasonable rates. Memory Productions Ltd., tel/fax 685-9125.


Alan Donald, Ph.D. Biostatistical Consultant

Medicine, dentistry, biosciences, aquaculture

101-5805 Balsam Street, Vancouver, V6M 4B9

264-9918

donald@portal.ca



UBC Biomedical Communications
Dedicated to educational media & audio visual services

MEDIA SALES:
• full range of AV supplies
Phone 822-4819 to receive your free catalogue!

AV EQUIPMENT RENTAL:
• projectors, screens, PA systems, VCRs, LCD panels, etc.

IMAGING SERVICES:
• slides, LARGE format colour printing, Photo CD, scanning

ART & GRAPHICS:
• illustration and design, computer graphics, web design

PHOTOGRAPHY:
• clinical & scientific to PR, plus film processing

TV & MEDIA PRODUCTION:
• complete production facilities and services
• multi-media support services

Come down and see us!
We are in the IRC building Rm B32
2194 Health Sciences Mall
Phone: 822-5561 • Fax: 822-2004
E-mail: biocomm@unixg.ubc.ca

UNIVERSITY BOULEVARD
WEBBROOK MALL
HEALTH SCIENCES MALL
WOODWARD IRC
BASEMENT OF THE WOODWARD IRC BUILDING



The University of British Columbia
Vancouver, Canada

February 21 - 23, 1997

CHANGING AGING AND TRAINING THE MASTER'S ATHLETE

with

THE Godfather of Body Building
BILL PEARL

THE Eminent Exercise Specialist
DR. KEN KAMBIS

THE Commissioner for the 1998
World Master's Games
JUDY GLENNEY

THE USA's Leading Geriatrics Expert
WALTER BORTZ, MD.

THE Extreme Adventurer & Author
DON STARKELL

THE Authority on
Strength & Health in Older Adults
DR. BEN HURLEY

and
THE BEST OF THE REST

To Receive Your Detailed Conference Brochure
FAX Your Name and Address to
FAX (604) 822-6086

Next ad deadline:
noon, Feb. 11



Make your move.

PARTICIPATION

Career Counselling

- Develop great interview skills
- Be positive and enthusiastic
- Save time and get the job
- Set challenging clear goals
- Identify your strengths

Be proactive today and call Monica at 734-7221
to sharpen your saw!
\$25/per 1 hour session

Point Grey Electrical from design to completion

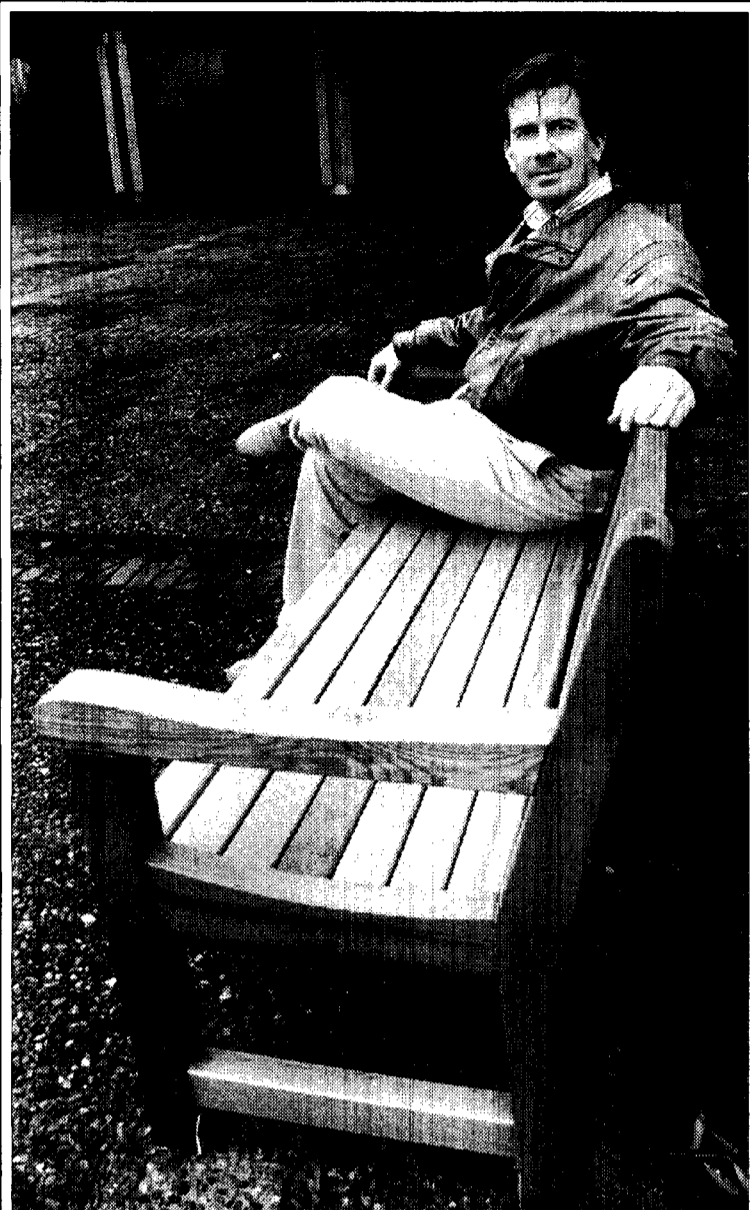
master electrician **Brian Cook** (license number 26232)



20 years experience

- lighting consultation & design
- home repairs and installations
- indoor and outdoor lighting
- appliance repair
- new services
- city requests
- electrical heating

Call for a free estimate: **733-3171**



Govin Wilson photo

Bench Mark

Commemorative cedar benches similar to those found in Stanley Park can now be donated to the university. "This new program provides donors with an opportunity to remember loved ones and a way to contribute to the betterment of the campus landscape," says Michael Howell, an urban designer with Campus Planning and Development. Howell is seen here with a bench donated by family members to the memory of Fine Arts Prof. Emeritus Roy Kiyooka, who died in 1994. The plaque on the bench, which is located next to the Frederic Wood Theatre, is inscribed with one of his poems. Another commemorative bench was donated by Johan de Rooy, a lecturer of Commerce and Business Administration, in memory of his parents.

Nursing faculty receive nat'l teaching, research honours

The School of Nursing will honour five of its faculty members for the national awards they received in 1996 at a campus reception Feb. 7.

Assoc. Prof. **Joan Bottorff** received the National Health Research Scholar Award from Health Canada/National Health Research Development Project. The award is intended to allow investigators with proven research ability to pursue health research on a full-time basis for a period of up to five years. Bottorff's research has focused on health communication. During the next five years she will investigate strategies to strengthen communication as an intervention to support and enhance health, with a focus on women's health issues — stopping smoking and breast cancer.

Assoc. Prof. **Elaine Carty** received the Canadian Nursing Research Group's Award for Promotion of Research-Based Practice. Her research in the areas of post-partum care for new families and on childbearing and parenting issues for women with disabilities and chronic illnesses were the basis for this award.

Assoc. Prof. **Ann Hilton** received the Canadian Nursing Research Group's Nurse Research Award. Cited for her contributions to nursing research and education, Hilton has focused on individuals and families coping with life-threatening and chronic illness. She is credited with actively promoting students' appreciation of research and their ability to assess its potential. She is associate editor for the *Canadian Oncology Nursing Journal*.

Asst. Prof. **Joy Johnson** was awarded the Canadian Nursing Research Group's Outstanding New Investigator Award. This award is given to a new researcher in the field of nursing who has completed his or her doctoral work within the past three years and has demonstrated outstanding scholarly achievement.

Johnson, who graduated with a PhD from the University of Alberta in 1993, has focused on developing and testing ways to support individuals in making positive health changes, such as stopping smoking, and breast self examination.

Assoc. Prof. **Clarissa Green**

Annual festival spotlights the arts

ArtsFest '97, a celebration of student theatre, film, music, visual art and literary events, begins today and runs until Saturday, Feb. 8.

ArtsFest is an initiative of the creative and performing arts departments of the Faculty of Arts, who join forces each year to showcase the talents of their students.

Theatrical highlights include *The Marriage Proposal* by Anton Chekhov, *On Tidy Endings* by Harvey Fierstein and *Treated with Tango* by Valerie Methot.

In a musical vein, offerings include performances by virtuoso Indo-Canadian drummer Trichy Sankaran, the UBC Symphonic Wind Ensemble directed by Martin Berinbaum and big band contemporary jazz featuring the Afro-Cuban rhythms of the UBC Jazz Ensemble directed by Fred Strike.

Also featured during ArtsFest are screenings of recent videos by UBC film students, staged readings of new plays written by creative writing students, readings by up-and-coming poets, site-specific arts works by fine arts students and the English Dept. book sale.

Most ArtsFest events are free of charge, although some charge an admission fee. For details about performance times and ticket information, pick up a copy of the ArtsFest brochure available at various locations on campus.

received a 3-M Fellowship from 3-M Canada and The Society for Research and Learning in Higher Education. The 3-M Fellowship is awarded annually to 10 university teachers who demonstrate outstanding performance in their teaching and in fostering excellence in teaching and in faculty members on their campus and elsewhere.

Prior to the reception Annette O'Connor, a prominent nursing researcher and associate professor at the University of Ottawa, will give a talk entitled Yes, No, Maybe So — New Approaches to Assessing Clients' Decisional Conflict and Providing Decision Support. During the past decade, O'Connor has developed a research program to understand and support the decision making of those facing choices related to screening for breast cancer and genetic disorders, preventive hormone therapy after menopause, and treatments for cardiac and respiratory diseases, and cancer.

O'Connor's presentation takes place 2:30 to 4 p.m. in the Vancouver Hospital and Health Sciences Centre, Koerner Pavilion G-279, 2211 Wesbrook Mall.

People

by staff writers

Dr. **Martin McLoughlin**, a professor of surgery, has been named as one of the winners of the 1997 Aboriginal Achievement Awards.

Now in its third year, the awards honour aboriginal people who have made outstanding contributions to society and who serve as role models for aboriginal youth.

McLoughlin, who obtained his MD from UBC in 1968, has been on faculty at the university since 1977 in the urology division of the Dept. of Surgery. He served as chair of the division for 10 years.

He is now working toward the establishment of a First Nations hospital in the Lower Mainland.

McLoughlin will receive his award from Gov. Gen. Romeo LeBlanc at a gala ceremony Feb. 7 in Calgary. The ceremony will be broadcast Feb. 13 on CBC-TV.

•••••

Sharon **Manson Singer**, assistant professor in the School of Social Work, is the province's new deputy minister of Human Resources.

Manson Singer received her MSW from UBC, specializing in socio-economic policy, before completing her PhD in social welfare economics at Brandeis University.

A member of the faculty since 1988, her research interests include health and social policy, income security, AIDS and health promotion.

Active in community service, she has served on the Social Planning and Research Council of B.C., the Canadian Council on Social Development, the National Forum on Family Security, the Women's Economist Network and the Canadian Association of HIV/AIDS Research.

Most recently she chaired the B.C. Minister of Social Services Income Advisory Council, the Premier's Forum on New Opportunities for Working and Living and the premier's Summit on the New Economy of B.C.

•••••

UBC's world debate team returned from the World Debating Championships in South Africa last month just one point short of advancing to the final round. This is only UBC's second appearance in the international competition which attracts teams from Oxford, Cambridge, Yale and Harvard.

World team members **Christopher Moreno**, a master's student in Applied Ethics and Western Canada's top-ranked debater, and third-year law student **Justine Wiltshire**, a semi-finalist at Oxford's Debater of the Year competition, competed in nine rounds. Debate topics included international law, South Africa's Truth and Reconciliation Commission, human rights, the European Union and its trade agreements, and legalizing same sex adoption.

Combined, Moreno and Wiltshire have 11 years of debating experience and are the current Western Canada debating champions.

Moreno made the semi-final round of public speaking at this year's world competition, also a first for UBC.

•••••

Richard **Splane**, professor emeritus in the School of Social Work, has received the 1996 Distinguished Service Award of the International Council on Social Welfare (ICSW). The award was conferred at the council's 27th conference held recently in Hong Kong.

Splane was recognized for his contributions to international social development, including his work promoting the collaboration of ICSW and the kindred organizations representing the social work profession and education in the field.

Splane and his wife, Verna, were inducted into the Order of Canada last year and were jointly awarded honorary doctorates at UBC's 1996 Spring Congregation. Last year also saw the launch of Splane's book, *75 Years of Community Service to Canada: The Canadian Council on Social Development 1920-1995*.



THE UNIVERSITY OF BRITISH COLUMBIA

President's Service Award for Excellence Call for Nominations

To recognize excellence in personal achievements and outstanding contributions to the University.

Eligibility: All University employees, including staff, faculty, senior academic and administrative personnel.

Award: A gold medal and \$5,000 for each recipient.

Deadline for nominations: Feb. 28

For information, call Ceremonies at 822-2484.

Arctic stakeout yields hare-raising results

by Charles Ker

Staff writer

UBC zoologist Charles Krebs has just completed the most ambitious ecological stakeout ever.

The life and death cycle of snowshoe hares in Canada's North has been observed for more than 300 years but remains one of nature's enduring mysteries. In regular nine to 10-year intervals, hares from Alaska to Labrador increase and then die in startling numbers. Populations can plummet from 300 animals per square kilometre to one.

From 1986 until last September, Krebs and his colleagues have been monitoring virtually all hare movement in sections of Yukon spruce forest. The dogged team of technicians and researchers compiled an exhaustive, daily chronicle of hare interactions including what they eat, how they forage, defecate, mate and, most especially, how they interact with predators.

"There is no doubt that predation causes mass paranoia among these hares who are constantly looking over their shoulders during the declining phase of each cycle," says Krebs.

Chronic stress caused by predation is the subject of one of the more than 103 publications and theses produced by the multimillion-dollar project funded by the Natural Sciences and Engineering Research Council (NSERC).

The team tested theories about the hare population cycle by sectioning off two, square-kilometre blocks of wilderness with electrical fencing to keep out lynx, coyotes and other mammal predators. The idea was to observe the effects on hares of reduced predation and additional food, both by themselves and in combination. Fertilizer was also spread around two large blocks of forest to see what effect added plant growth had on hare populations.

To collect their data, researchers trapped and attached radio collars to more than 1,000 hares, red squirrels, and predators like lynx and coyotes and monitored their whereabouts each day. Results from the project showed that while both food and predation play a role in generating hare cycles, they alone are not the root causes. The combined treatment of predator reduction and additional food supplies de-

layed the decline but did not prevent it.

"If both food and predation are together sufficient to explain population cycles in snowshoe hares, why were we not able to prevent the decline entirely in the combined treatment area?" Krebs asks.

Owls and other raptors are part of the reason since they cause 40 per cent of predation and the enclosures failed to eliminate them. Attempts to string up nets and fishing line to ward off birds of prey were ineffective due to snow buildup.

The study also refutes a previously held theory that food shortage followed by predation gives rise to the cycle. Krebs asserts the phenomenon results from a complex, three-level interaction among herbivores (hares), their food plants, and their predators.

The team found that almost all snowshoe hares in the study area died from predator attack. From 1989 to 1993, predation accounted for 83 per cent of deaths among radio-collared hares and only 9 per cent were attributed to starvation.

The electrical fencing and additional food supplies did produce a dramatic effect in the experimental enclosures. Averaged over both the peak (1989-90) and decline (1990-93) phases, predator exclusion approximately doubled the density of hares, food addition tripled density and the combined treatment increased density eleven-fold.

Krebs' team, including Tony Sinclair, Jamie Smith, Roy Turkington, and Kathy Martin from UBC, and three others drawn from the universities of Alberta and Toronto, worked from a research campsite operated by the Arctic Institute on the boundary of Kluane National Park.

Situated 150 kilometres west of Whitehorse in the midst of virgin spruce forest, Krebs says the project was as much a test of human dynamics as those of the animals they were observing.

"It is a great achievement for those involved to have sustained that level of data collection over such a prolonged period in such a remote location," says Krebs. "It's certainly a benchmark for future large-scale research projects."

Krebs is presently using a Killam Research Fellowship to write up the results of the research in a publication tentatively titled, *Vertebrate Community Dynamics in the Yukon Boreal Forest*.



Steve Bosch photo

Prof. Charles Krebs' career has been devoted to unravelling the mysterious rise and fall in populations of northern mammals such as the lemming pictured above.

Centre aids campus research innovations

by Stephen Forgacs

Staff writer

An Innovation Centre created by the National Research Council (NRC) of Canada on the UBC campus will enhance the B.C. research community's ability to maintain strong research programs in several key areas, said Bernard Bressler, UBC's Vice-president, Research, following the centre's opening Jan. 27.

"It's important to realize that the Innovation Centre is very much a provincial centre," said Bressler. "It will provide opportunities for UBC researchers, and researchers from across the province, to collaborate with the NRC and gain access to the centre's resources."

The centre, located off 16th Ave. at East Mall, was established following more than a year of NRC consultation with the provincial government, industry and other provincial research centres. The NRC decided to focus initial efforts on four areas it considers provincial research strong points. These include the forest industry, aquaculture and marine biosciences, the development of an infrastructure for biopharmaceuticals, and information and telecommunications technologies.

NRC President Arthur Carty said the centre will improve access to NRC resources including its Canada Institute for Scientific and Technical Information (CISTI) and Industrial Research Program (IRAP).

CISTI responds to more than 500,000 requests for information each year. CISTI has a collection of more than 50,000 journals, and more than a million books, technical reports and conference proceedings. Services include literature and patent searches and document delivery from the CISTI collection and other sources.

IRAP draws from a team of 260 indus-

trial technology advisers in 190 locations across Canada. Through the program, researchers can gain access to people and financial resources that can facilitate research, development and technology adaptation projects.

Bressler said UBC's relationship with the NRC Innovation Centre will be similar to the university's relationship with the Pulp and Paper Research Institute of Canada with considerable crossover of expertise, joint initiatives and research partnerships.

"NRC is one of the federal government's key assets for innovation," Jon Gerrard, Secretary of State for Science, Research and Development, said at the centre opening. "By making NRC's scope, depth, infrastructure and linkages more easily accessible on a provincial level, NRC is encouraging B.C. to tap into its potential as a wellspring of science, technology and industrial innovation."

Several B.C. companies associated with UBC researchers have benefited from NRC assistance. Northwest Mettech Corp., a UBC spin-off company, received assistance from NRC and UBC's Industry Liaison Office in the development of a commercial product — a plasma torch — which is used to spray wear-resistant, protective coatings on jet engines and other manufactured metal items. Former UBC graduate students Doug Ross and Alan Burgess founded Northwest Mettech Corp. to commercialize the system.

"The benefit we got from our relationship with IRAP was much more than monetary. The industrial technology adviser kept us on a track that would lead to a commercial product," said Ross, now Northwest Mettech vice-president. "Without that, we wouldn't have had the structure we needed to succeed."

Committee invites input on Faculty Club

The Advisory Committee on the Faculty Club continues to examine the feasibility of re-opening the former Faculty Club as a financially viable university gathering place.

The committee met seven times in January and with the help of outside experts has been studying various operating options. The committee agrees the facility would not be viable as it was operated in the past and that a sound financial plan must include new weekend and evening business to generate new revenue.

Jacque Rice, chair of the committee, will be presenting an interim report to the university Board of Governors on Feb. 6. The committee has been asked to prepare a final report for the March 20 board meeting.

The committee was originally formed by the university administration in response to a Board of Governor's directive dated Dec. 12, 1996 which stated "The board requests the administration to prepare a development program

and cost estimates to determine whether the Faculty Club building can be re-opened as a financially viable university gathering place with respect to both its operating and capital budget."

The committee would like to gather more information and input from across the campus community and is planning to conduct a survey. In addition, new members have been added to the committee: Tony Fogarassy, legal adviser; Ruth Smith, secretary to the dean of Medicine; Asst. Prof. Linda Stanley, Education; and Prof. David Walker, Chemistry.

If the Board of Governors approves re-establishing the facility as a university gathering place, a full consultation process will take place before use of the building is finalized. If you are interested in contributing your views to the committee and would like a copy of the survey, please contact Lyn Manning at 822-2455 or via e-mail at lyn@finance.ubc.ca.



GIVE SOMEONE A SECOND CHANCE.

Discuss organ donation with your family and sign a donor card today.

THE KIDNEY FOUNDATION OF CANADA