

# UBC REPORTS

Volume 41, Number 1

January 12, 1995



Charles Ker photo

## Ringling In The New Year

Graduate student Noel Genoway prepares the Asian Centre's temple bell for Oshogatsu, the Japanese New Year. Centre celebrations on January 9 began with the ringing of the bell 108 times. According to Buddhist teaching, humans are plagued by 108 earthly desires; with each toll of the bell, one is dispelled.

## Faculty members named to Order of Canada

by Connie Filletti

Staff writer

Five UBC faculty members have been honoured with appointments to the Order of Canada in recognition of their outstanding achievement and service.

Michael Smith, director of the Biotechnology Laboratory and co-winner of the 1993 Nobel Prize in Chemistry, was named a Companion to the Order of Canada, the order's highest rank.

Smith was awarded the Nobel Prize for his discovery of site-directed mutagenesis, a technique which enables scientists to reprogram the genetic code and is considered to be instrumental in the fight against cancer and in the treatment of hereditary diseases.

Dr. Patrick McGeer and Dr. Edith McGeer, professors emeriti in the Psychiatry Department's Division of Neurological Sciences, were both named to the second highest rank as Officers of the Order of Canada.

The McGeers' research has focused on Alzheimer's disease for more than a decade. Their most promising discovery to

date is that indomethacin, an anti-inflammatory drug widely prescribed for arthritis patients, may slow and even halt the progression of Alzheimer's disease.

Dr. John Blatherwick, a clinical professor in Health Care and Epidemiology's Division of Public Health Practice, and Peter Oberlander, a professor emeritus in the School of Community and Regional Planning, were two of 52 Members of the Order of Canada appointed.

Blatherwick, who has been Vancouver's medical health officer for the last 10 years, is the author of Canadian Orders, Decorations and Medals, a book he wrote in 1984 which includes his research about the Order of Canada.

Oberlander, a graduate of Harvard University, was the founding director of both the School of Community and Regional Planning and the Centre for Human Settlements in the Faculty of Graduate Studies. In the 1950s, he served as a special consultant to the House and Planning section of the United Nations Dept. of Social Affairs on education for city planners.

See photo Page 5

## Klawe appointed VP, Academic and Student Services

by Gavin Wilson

Staff writer

Maria Klawe, head of UBC's Dept. of Computer Science, has been named vice-president, Academic and Student Services. She replaces K.D. Srivastava, who stepped down Dec. 31 after eight years in that position.

Klawe, who served for six and a half years as Computer Science head and built the department into one of the best in Canada, assumes her new position Feb. 1.

"We are extremely pleased that Maria has agreed to accept this appointment," said UBC President David Strangway. "She is not only a brilliant scholar, but she also brings exceptional management and communication skills

to the position. Her incredible energy and enthusiasm are an inspiration."

The office of vice-president, Academic and Student Services is responsible for student registration and records, awards and financial aid, the library, information and computing systems, athletics and sports, housing and conferences, and

services for women students and students with disabilities.

Klawe joined UBC in 1988 as professor and head of Computer Science. Under her leadership, the department doubled its enrolment of undergraduate and graduate students, more than doubled

research funding, expanded its lab facilities and hired 17 new faculty members.

Meanwhile, the department increased its interaction with industry, the community and other universities and Klawe introduced her management philosophy of shared decision-making, inclusiveness and consensus.

As well as her administrative duties, Klawe conducts research in theoretical computer science. She has also organized a col-

laborative research project call E-GEMS which brings together researchers from a wide range of fields to look at the potential of electronic games to help children learn math and science.

Klawe was educated at the University of Alberta, where she received a BSc and

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Maria Klawe

## Works by Pasteur among rare books donated to UBC

by Gavin Wilson

Staff writer

A collection of rare books that includes works by Louis Pasteur and Florence Nightingale has been donated to the Dept. of Microbiology and Immunology by its first head, the late Claude Dolman.

Dolman died last month, shortly after making the donation.

Comprising 500 books on topics related to microbiology, the collection includes scientific treatises, biographies, reports and lecture transcripts, some dating back as far as the 17th century.

"This collection is far better than what is available in microbiology texts in the

Woodward Biomedical Library," said Julian Davies, current head of the department.



Claude Dolman

Davies said he hopes students in particular will use the books to gain a sense of microbiology's history and of the people behind its development.

"The Dolman collection will serve as a unique and valuable resource for future generations of microbiologists," he said.

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## Letters

### Problems and questions plague policy

**Editor:**

The latest version of the Draft Policy on Discrimination and Harassment is clearly better than its predecessors, but it still leaves some disturbing questions and problems. These have been raised in the context of such policies elsewhere, and I hope that UBC will take warning and deal with them before the policy is put into final form.

1. In many cases, there is no objective, a priori criterion for judging whether a given act is harassment or discrimination within the terms of the policy. Most laws and regulations define punishable behaviours. Questionable behaviours can be matched against criteria to determine whether a violation has occurred, regardless of, e.g. whether charges are eventually pressed or the perpetrator is caught. In contrast, the policy's procedures depend entirely on the subjective judgement of whether a "reasonable person" feels that a rule has been broken. Therefore, one cannot be sure, either in advance or even after the fact, whether a particular behaviour is per se harassment or discrimination.

Obviously, also, mounting a defence is difficult: because feeling offended is a completely subjective reaction, the accused cannot contradict a complainant who claims to have experienced that reaction.

2. Such vagueness and defencelessness lead to a chilling effect. Members of the university community will self-censor their comments just in case someone might be offended. Given that almost any remark may offend somebody, the policy and enquiry is likely to decrease significantly. Education, too will suffer: in spite of the policy's nod to academic freedom, faculty and students will be reluctant to voice ideas, report findings, or offer interpretations, that conceivably may be offensive to someone.

3. The criterion of "reasonable person" is both undefined and invidious. Do we accept that reasonable people may disagree about whether something was offensive? If so, what is the decision rule for adjudging someone to be guilty or innocent? My colleague, Dr. Coren, assumed in a previous letter (*UBC Reports*, Oct. 21, 1994) that the reasonable person rule means that if a high percentage of, say, a class, is not offended, the fact that a few students are will not lead to a conviction. I'm afraid that he is wrong, and that if there is a complaint from even

a few people — perhaps even one, or perhaps no students at all but rather a member of the human rights bureaucracy — this will satisfy the reasonable person criterion. Perhaps the policy should specify the lowest proportion of offended to non-offended people necessary for conviction. On the other hand, if all reasonable people are assumed to recognize offensiveness, then if X percentage of an audience feel offended, and the rest do not, any decision implies that one portion of the group consists of unreasonable people. What will the university do when people feel offended by this implication?

4. I object to the power of the human rights staff to initiate investigations and to continue them regardless of an original complainant's withdrawal. It is highly likely that individuals selected (and self-selected) for these positions will have a shared approach of low "offensiveness" thresholds and a highly prosecutorial orientation; furthermore, the continued existence of their positions will depend on there being enough "cases." This combination of ideology, personality, and practicality is bound to result in the perception of misdeeds where no one else sees them and in a proliferation of complaints. There is also a condescending assumption that if the people directly involved don't com-

plain it is because they are fearful or ignorant, whereas the staff is courageous and enlightened. I suggest, rather, that the staff is more likely to make mountains out of molehills, or no hills at all, and should be limited to dealing with complaints brought by others.

I hope that the various aspects of the policy will continue to be debated. One thing that has intrigued me for some time is the silence of the Faculty Association on this issue aside from one inconclusive discussion. One would think that protection against harassment and discrimination, and the protection of

academic freedom, are both at least as important as the fine points of how increments are allotted, or whether a one-half percent salary raise is possible in a given year. It is clear that individual members of the faculty are deeply concerned; don't the leaders of our organization have any thoughts on these issues?

**Peter Suedfeld, Professor  
Dept. of Psychology**

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### Vagueness a problem in applying policy

**Editor:**

I share Prof. Salzberg's forebodings about the consequences of implementing the Draft Policy on Discrimination and Harassment as formulated in the Dec. 1, 1994 issue of *UBC Reports*.

The adjudication procedures described in the policy are ponderous and their capacity for fairness completely unproven. Indeed, given the advocacy character of some of the officers involved in the process, the scope for prejudice and bias seems considerable. For a person convinced of the justice of her or his case, whether as complainant or respondent, the established procedures of a court of law, in which evidence is presented under oath and the judge or

jury are at arms length from the hot-house passions of university politics, must offer a surer guarantee of fair treatment.

The latest version of this policy is as flawed as its predecessor and worse. Why, for example, have the authors of this latest draft seen fit to omit an offence as serious as "physical and sexual assault" from the list of examples of sexual harassment, though it was included in the earlier version published in *UBC Reports*, Oct. 6, 1994? The omission is all the more incongruous when one notes the retention of so many other ill-defined examples of harassment involving behaviour much less clear-cut in intention, and for that reason less susceptible to proof than "physical or sexual assault."

I am especially concerned that "display of pornography" still appears in the list of

behaviour categorized under "Harassment, including Sexual Harassment." Are we to assume from this that the authors of this policy and those participating in the complex bureaucratic apparatus that will be responsible for its execution are capable of identifying "pornography," a term whose precise definition continues to elude the collective wisdom of our parliament and courts? Does the committee's definition of "pornography" include, for example, the projection of slides illustrating pedicatio and irrumation as depicted on Greek vases, and the scenes of soixante-neuf and other forms of spintrian activity, as well as the practice of avian and mammalian copulation much favoured by certain heroines of classical mythology that decorate Etruscan and Roman walls and other forms of ancient art. I need to have an answer if I am to change my ways.

**James Russell, Professor  
Dept. of Classics**

*Editor's Note:*  
"Pornography" was deleted from the Dec. 1 draft shortly after its publication.

### Beware the age of intolerance

**Editor:**

Your Dec. 15, 1994 issue regarding Killam Research Prizes informed the public that the director of the Centre for Research in Women's Studies and Gender Relations "is helping to rewrite Canadian and women's history."

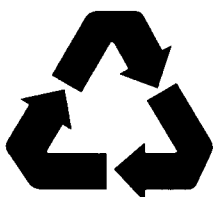
Rewriting history is no doubt a growth industry.

Before travelling along this revisionist highway politicians and universities should heed the words of UBC's W.J. Stankiewicz:

"With the advent of political correctness, the Age of Imbecility has reached a new high. Suddenly we all find ourselves making what is perceived as 'errors' and are assailed by a host of hidden inhibitions. Beware of the coming of the new age of intolerance."

**Raymond Young  
Vancouver, BC**

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# Faculty reassigned as departments dissolved

The dissolution of three departments in the Faculty of Arts - Russian and Slavic Languages and Literatures, Classics, and Religious Studies - was approved by Senate at its last meeting. The latter two disciplines will be combined in a Dept. of Classical, Near Eastern and Religious Studies to be established in July.

In presenting the recommendations to Senate, Dean Patricia Marchak said the faculty will no longer offer a major in Russian and Slavic languages but will maintain a minor offering in these areas.

When the Dept. of Russian and Slavic Languages and Literatures officially disbands on June 30, its four faculty members will be reassigned to other departments for administrative services.

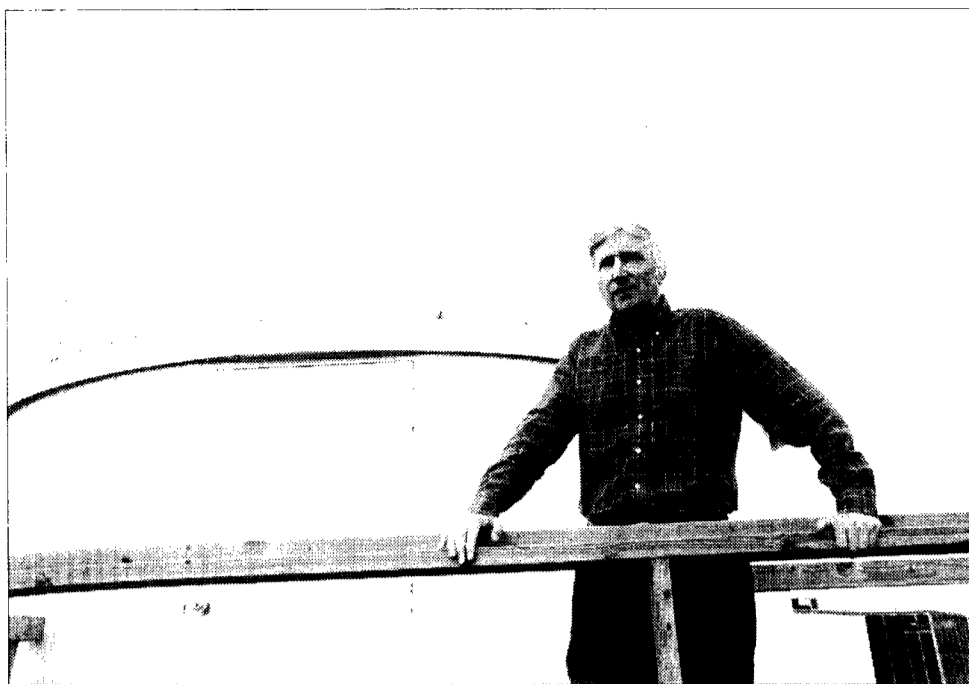
The faculty's Co-ordinating Committee on Slavic Area Studies will continue

helping students who wish to pursue graduate work with an Eastern European or Russian focus.

Marchak describes the merging of Classics and Religious Studies as "very positive."

"Both departments are small and there was already considerable interaction in both teaching and research," she said. "Those concerned felt it was in their mutual interest to link up."

Since the mid-1980s both Religious Studies and Classics have experienced a significant resurgence. Full-time equivalent (FTE) undergraduate enrolment figures in Classics have increased from about 140 to 185 while (FTE) undergraduate enrolment in Religious Studies has almost doubled from 65 to 120. Graduate enrolment has also increased.



Gavin Wilson photo

**Prof. Gordon Walker is the lead Canadian scientist for the Gemini Project, an international venture to build two eight-metre telescopes in Hawaii and Chile. He is seen here outside the white-domed enclosure of UBC's observatory on the roof of the Geophysics and Astronomy building.**

## New telescopes rival Hubble Space scope

by Gavin Wilson

Staff writer

In 1998, high atop a Hawaiian mountain, a UBC astronomer will join other scientists in opening a powerful new telescope that will introduce a new era in earth-based observation.

Prof. Gordon Walker is the lead Canadian scientist for the Gemini Project, an international venture to build two eight-metre telescopes, one on Mauna Kea in Hawaii and the other on Cerro Pachon, Chile.

Thin-mirror technology and other advances will allow the telescopes to rival, and in many instances surpass, the capabilities of the Hubble Space Telescope.

"The Gemini Project may not have the world's largest telescopes, but they should have the best image quality, effectively making them more powerful than existing telescopes," Walker said.

"First light," as astronomers refer to the start of observation, will be in 1998 in Hawaii and in 2001 in Chile. The sites offer superb viewing conditions, being located at elevations of 4,200 metres in Hawaii and 2,700 metres in Chile.

Among other things, the new telescopes will allow astronomers to observe conditions that lead to the birth of stars, study the farthest known galaxies to see how they form and evolve, and explore heavy element production in stars of the Milky Way and nearby galaxies.

The Gemini project is looking at doing things a little differently, he said. Traditionally, competition for viewing time is fierce and astronomers are given only a brief time to make their observations, regardless of the weather conditions.

"It's easy to waste a lot of time on a telescope," Walker said.

Instead, Gemini is proposing that per-

manent staff make the observations and only when conditions best match the type of viewing required. The information will then be sent to the scientists for study.

"The heroic days are over, anyway," Walker said. "These days the real work comes when you are sitting in front of a computer."

The project brings benefits for Canadian industry, as well as scientists.

A Coquitlam company, Coast Steel, is building both enclosures, the huge white domes that cover the telescopes. Coast Steel has built enclosures for other telescopes on Mauna Kea, including the Canada/France/Hawaii telescope, the two Keck telescopes and Japan's eight-metre Subaru telescope.

Victoria's Dominion Astrophysical Observatory will supply some of the high-tech gadgetry for the Gemini telescopes. Observatory staff will build an adaptive optics unit, which corrects distortion in images caused by atmospheric conditions, and spectrographs, which disperse light into its component colours, providing information on the makeup and movement of stars.

Gemini is a collaborative project that pools the resources of Canada, the United States, Britain, Chile, Argentina and Brazil.

Canada is providing \$35 million, or 15 per cent of the total funding of \$176 million U.S. The contributing agencies are the National Research Council, the Natural Sciences and Engineering Research Council and the Westar university consortium.

The Westar consortium was established in the 1960s by then-UBC Science Dean Vladimir Okulitch to hold in trust the assets of the Queen Elizabeth observatory, once planned for the Okanagan's Mount Kobau.



**UBC employee Nancy Nevison is a veteran of two Rose Bowl Parades.**

## Offbeat

by staff writers

The new year got off to a rosy start for UBC staff member Nancy Nevison — for the second time in her life she fulfilled a dream of taking part in the annual Rose Bowl Parade in Pasadena, Ca.

Nevison, a freelance florist and a clerk in the Advancement Services Dept. of UBC's External Affairs Division, flew to California after Christmas to join the 70,000 volunteers who put the parade together.

If you were one of the 80 million people around the world who watched the annual New Year's Day parade, you saw her handiwork. Nevison used her talents to help create three floats, which, like all the floats in the parade, are painstakingly assembled with flowers.

"Every piece has to be floral — every bit of it," Nevison said shortly before she was off to California.

For many years, the closest Nevison got to the Rose Bowl parade was her television set. Each year she would faithfully watch and marvel at the huge floral floats.

Two years ago, she decided to look into getting involved. After a few phone calls, she arranged to volunteer with Charisma Floats of Pasadena, a private company that designs and builds floats for the parade.

She worked on the award-winning Malaysian government float, an underwater floating garden fantasy that had tropical fish, coral reefs, enormous crabs with mechanical arms and a huge oyster shell that opened to reveal a pearl.

Putting the Malaysian float together — it was covered in 31,000 roses and hundreds of orchids — required a carefully orchestrated and intense period of labour. Nevison got only six hours sleep in the three days leading up to the parade.

"It was the most exhilarating experience," she said.

As with other parade floats, the work is painstaking. Sometimes individual petals are stripped from blooms and then pasted one by one on the float. Other textures are created using seeds, beans, corn husks, seaweed, rice, coconut, and even popcorn.

Part of the challenge is making sure the flowers survive for the 72-hour assembly time leading up to the parade. Some of the more delicate buds are set in their own tube of water.

Nevison worked with Charisma Floats this year on two entries: Rotary International and the 1928 Jewelry Co., a U.S. retail chain. She also helped create the parade's logo, a huge rose comprising 3,000 flowers.

Nevison has been honing her skills as a florist for several years.

When she's not working at UBC, she operates The Floral Freelancer Extraordinaire, teaching floral design and making floral arrangements for businesses, private homes and weddings.

She's done the flowers for many UBC weddings and even UBC events, such as the windup dinner for the World of Opportunity campaign.

Nevison's work has been seen at floral shows in South Africa, England, the United States and Holland. She took part in the Art in Bloom show at the Vancouver Art Gallery in April and also placed in the top 10 three out of four times she entered the Flowers Canada People's Choice Awards held each fall at the Vancouver Trade and Convention Centre.

## UBC to participate in study of bone injuries among seniors

UBC endocrinologist Dr. Jerilynn Prior will direct the Vancouver site of a multicentred clinical trial aimed at understanding the risk factors for broken bones and hip fractures in the aging population.

"We hope that the project will help increase knowledge about osteoporosis and reduce the risk of bone loss, pain and disability," Prior said.

The Canadian Multicentre Osteoporosis Study (CAMOS) is one of the largest prospective population-based studies of bone ever conducted.

About 10,000 men and women at 10 centres across the country will participate in the five-year, \$12-million project.

Prior's ancillary research will focus on the menstrual cycle and ovulation in an effort to determine when in the life-cycle women begin to lose bone density and the rate of loss. She will also search for lifestyle factors which could stop bone loss and enhance bone mineralization.

CAMOS is funded by the National Health Research Development Programs and various industrial partners.

# Ontario puts environmental assessment program to use

by Charles Ker  
Staff writer

Ontario is adopting a one-of-a-kind program developed at UBC to assess the environmental merits of provincial government office space.

The program, developed by the UBC School of Architecture's Environmental Research Group (ERG), evaluates the environmental performance of new and existing office buildings.

"There is a much more knowledgeable and scrutinizing public emerging who not only expect healthier indoor environments, but also greater environmental responsibility by industry," said Prof. Ray Cole, head of the ERG and president of the newly formed Green Building Information Council.

"This program represents a

unique collaboration within the building industry in response to the emerging environmental agenda."

The Building Environmental Performance Assessment Criteria (BEPAC), is a set of environmental criteria structured around five assessment areas: ozone layer protection through improved containment and reduced use of ozone depleting substances (chloro-fluorocarbons and hydrochloro-fluorocarbons); environmental impacts of energy use with respect to reduced emissions of greenhouse gases, regional pollutants and electrical energy use; quality of the indoor environment including air, lighting and acoustic conditions; conservation of resources through the use of products made from recycled materi-

als and water-conserving fixtures; and site selection and design strategies which encourage alternative transportation methods to the automobile.

In September, Ontario began the process of applying BEPAC in eight government buildings in North Bay, Peterborough and Toronto. These assessments cover the workplace of nearly 5,000 government staff housed in close to 215,000 square metres of space. The government has also negotiated the rights to apply the program to a further 800 government-owned buildings.

Under the voluntary program, building owners are awarded a certificate indicating the environmental merits of their buildings.

Cole anticipates BEPAC will be adopted in other regions of Canada.

# Recycling, cost-efficiency, at heart of student-led initiative

Shredding machines for recycling plastics. A chemical exchange program. Recovering heat from air vents at the UBC swimming pool. These three bright ideas are part of a new program launched by the Sustainable Development Research Institute (SDRI) aimed at improving the campus environment and reducing UBC's operating costs.

The Greening the Campus program hopes to harness skills and knowledge of students, faculty and staff in a series of projects designed to promote ecological sustainability. Program co-ordinator Janet Land said projects will focus on five resource components on campus: energy, waste, water, land and food. Investigations of one or more of these "resource flows" will be done through audits, technical and economic analyses, consultation with stakeholders and regular project monitoring and maintenance. Four projects underway examine the composting of food waste from AMS and UBC Food Group out-

lets, heat loss from the university steam system, the economics of electricity use on campus and new alternatives for traveling within the campus. Other projects under consideration involve user-pay bike lockers, waste audits of individual buildings, a material-handling system for recycled paper, and landscaping proposals to improve security and/or reduce water use.

Viewed as a 10-year initiative, Land hopes the program spawns up to 50 projects annually, all of which would be student-led and supervised by faculty with input from staff. Where-

ever possible, the work would also be tied to undergraduate or graduate courses for credit.

"From a student perspective, it has been shown that the practical and applied nature of the proposed work is very popular and has a positive impact on learning," said Land. "It also provides students with problem-solving skills which make them more marketable upon graduation."

Faculty who can identify "greening" projects as possible topics for their students are urged to contact Land at 822-9154 or by e-mail at jland@unixg.ubc.ca.

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Martin Dee photo

### Congratulations In Order

Professors Emeriti Pat and Edith McGeer are among five UBC faculty named to the Order of Canada. Governor-General Ramon Hnatyshyn announced a total of 85 appointees to the Order of Canada, including 10 from British Columbia, in Ottawa on Jan. 4. Story on Page 1.

### Klawe

Continued from Page 1

a PhD in mathematics, and at the University of Toronto, where she did graduate work in computer science.

After teaching at the University of Toronto and Oakland University in Rochester, Michigan, she moved in 1980 to the IBM Almaden Research Centre

in San Jose, California.

At IBM she held various positions including manager of the Discrete Mathematics Group and manager of the Mathematics and Related Computer Science Dept.

Klawe is married to UBC Computer Science Prof. Nicholas Pippenger and has two children, aged nine and 12.

Prof. Julian Davies, head of the Dept. of Microbiology and Immunology, leafs through one of the 500 rare books donated by its first head, the late Claude Dolman.



Gavin Wilson photo

### Dolman

Continued from Page 1

Included in the collection are:

— a first edition of Robert Hooke's Micrographia, printed in 1667, in which the British scientist describes microbes viewed with a magnifying glass

— a book by pioneering Dutch microbiologist Anton van Leeuwenhoek, maker of the world's first microscopes, printed in 1695

— a general by Florence Nightingale, the English nurse who introduced basic hygiene principals to hospitals, helping to stem the spread of infection

— first editions of 1886 works on the production of beer and wine by Pasteur, the French chemist who invented the process of pasteurization, as well as a bound volume of his com-

plete works and a first edition of Rene Vallery-Radot's Life of Pasteur

— 19th century reports on such diseases as smallpox, typhus, scarlet fever, cholera and yellow fever.

An avid collector of books, paintings and sculptures, Dolman acquired the collection during a long and distinguished career in public health.

He was a faculty member at UBC from 1935 until his retirement in 1971. In addition to holding numerous administrative positions with the university, he conducted research on bacterial toxins such as salmonella, botulism and staphylococcus. His work earned him international recognition and many honours.

Throughout his career Dolman believed passionately in establishing and implementing public health procedures. He sometimes had to overcome fierce

resistance, especially when he played a major role in the chlorination of Vancouver's water supply.

He was also instrumental in the founding of the Faculty of Medicine at UBC, from which three of his six children later graduated. Dolman also served as director of the division of laboratories with the provincial Dept. of Health for many years.

The Dolman collection has been put on display in a conference room in the Dept. of Microbiology and Immunology.

Dolman had also established an endowment which will fund the C.E. Dolman Prize, to be awarded annually to the outstanding graduate of the Dept. of Microbiology and Immunology. The endowment will also fund the C.E. Dolman Visiting Lectureship, which will bring an eminent microbiologist to the department each year.

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# Calendar

## January 15 through January 28

### Sunday, Jan. 15

#### Music Concert

First of a series of three. The Piano & Violin Sonatas of Beethoven featuring pianist Jane Coop and violinist Andrew Dawes. Music Recital Hall at 3pm. Three-concert pass \$24/16; individual \$12/8. Call 822-5574.

### Monday, Jan. 16

#### Astronomy Seminar

Unveiling The Initial Mass Function Of Galactic Globular Clusters. Ciampaolo Piotto, Osservatorio di Padova and Berkeley. Geophysics/Astronomy 260 at 4pm. Refreshments at 3:30pm. Call 822-2696/2267.

#### Mechanical Engineering Seminar

Inertial Effects And Wake Structure In Swimming. Dr. J.R. Lovvorn, U. of Wyoming. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Call 822-6671.

#### IHEAR Seminar

Twice Imprisoned: Loss Of Hearing, Loss Of Power In Federal Prisoners In British Columbia. Marilyn Dahl, PhD candidate, IHEAR. Hearing accessible. Brock Hall 0017 at 4pm. Call 822-3956.

**Green College Lecture**  
Science And Society: Technology And The Arts - Politics Of Science Funding. Erich Vogt, former director of TRIUMF; Peter Hochachka, Zoology. Green College Coach House at 8pm. Call 822-8660.

### Tuesday, Jan. 17

#### Animal Science Seminar Series

Metabolic Response Of Fish To Vaccination. Paige Ackerman, MSc student, Animal Science. MacMillan 256 at 12:30pm. Refreshments. Call 822-4593.

#### Pharmaceutical Sciences Seminar

Enhancing Learning/Teaching From The Classroom To Community Pharmacy Practice. Dr. Naseem Amarshi, Clinical Div., Pharmaceutical Sciences. IRC #3 at 12:30pm. Call 822-4645.

#### GSS Professional Development Seminar

Writing And Defending Your Thesis. Experienced faculty members and graduate students. Grad Centre at 12:30pm sharp. Refreshments. Call 822-3203.

#### Botany/Biodiversity Research Seminar

Walking A Two-way Street From Plant Genetics To Space And Back: A Journey Of 30 Years. Dr. Richard H. Waring, College of Forestry, Oregon State U. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

#### Centre for Chinese Research Seminar

Sino Judaica: A New Avenue Of Understanding. Prof. Rene Goldman, Asian Studies. Asian Centre 604 from 12:30-2pm. Call 822-2629.

#### Astronomy Seminar

The Galactic Bulge. Andy McWilliam, Carnegie Observatories. Geophysics/Astronomy 260 at 2:30pm. Refreshments at 2pm. Call 822-2696/2267.

#### Oceanography Seminar

A Historical Perspective Of Biological Studies In The Ocean. Tim Parsons, professor emeritus. BioSciences 1465 at 3:30pm. Call 822-4511.

#### Green College Lecture

Learning To Teach, Teaching To Learn. Gail Riddell, director, Centre for Faculty Development/Instructional Services. Green College Coach House at 5:30pm. Call 822-8660.

### Wednesday, Jan. 18

**Orthopedics Grand Rounds**  
Sports: Anterior Shoulder Instability. Dr. W. Regan. Eye Care Centre auditorium at 7am. Call 875-4272.

#### Faculty Development Lecture/Workshop

The Four Cultures Of The Academy. Bill Bergquist, Asian Centre. Asian Centre Auditorium from 9-12:30pm. Keynote address from 9-10am. To register call 822-9149.

#### Red Cross Blood Donor Clinic

Continues to Jan. 20. SUB Ballroom from 9:30am-3:30pm. Call Judy Au at 879-6001, local 418.

#### Microbiology/Immunology Seminar

Protein Adsorption To Polymeric Surfaces And The Rational Design Of Biomaterials. Dr. Charles Haynes, Chemical Engineering. Westbrook 201 from 12-1:30pm. Call 822-3308.

**Canadian Studies Lecture**  
Why The Deficit Does/Doesn't Matter. David Donaldson, Economics. Buchanan B-212 at 12:30pm. Call 822-5193.

#### Wednesday Noon Hour Concerts

Jazz Concert. George Robert Quintet with guitarist Oliver Cannon. Music Recital Hall at 12:30pm. \$2.50. Call 822-5574.

#### Opera Panel Discussion

Peter Grimes. George Crabbe And Benjamin Britten. Susan Bennett, Vancouver Opera; Ronald Hatch, English; John Hulcoop, English; Andrew Busza, English. Buchanan Penthouse at 12:30pm. Call 822-4060.

#### Forest Sciences Seminar Series

Extinctions Of Mammals From U.S. Rocky Mountain Parks. Dr. Susan Glenn, Forest Sciences. MacMillan 160 from 12:30-1:30pm. Call 822-9377.

#### Centre for Japanese Research Seminar

Transforming Of Japanese Universities. Prof. Kiyofumi Kawaguchi, College of Policy Science, Ritsumeikan U., Kyoto. Asian Centre 604 from 12:30-2pm. Call 822-2629.

#### French Colloquium

Y a-t-il Une Traduction Dans La Salle? Jeu-questionnaire Sur l'identification Du Traduit. Louise Ladouceur, PhD student in Interdisciplinary Studies. Buchanan Tower 799 from 2:30-3:30pm. Call 822-2879.

#### Pharmaceutical Sciences Seminar

Cyclosporin Vs FK506 In Liver Transplantation. Ms. Mary Ann Lindsay, PhD student, Clinical Pharmacy. Vancouver Hosp./HSC, UBC Pavilion G-279 from 4-5pm. Call 822-4645.

#### UBC Writing Centre

Begins Jan. 18, Wednesdays, 7-10pm. Preparation For University Writing And The LPI. Section 702 is a one-term non-credit writing course in language and composition. For info/registration, call 822-9564.

### Thursday, Jan. 19

#### Pathology/Laboratory Medicine Lecture

Reactive Airway Disease: The Smooth Muscle Story? Dr. P. Seidman, assistant professor, Anesthesiology/CCM, U. of Pittsburgh. VHHSC Eye Care Centre auditorium at 8am. Call 875-4577.

#### Faculty Development Seminar

Also Jan. 26. A Brown Bag Work Group: Developing New Teaching Skills. Gail Riddell/colleagues. David Lam bsmt. seminar room from 12:30-2pm. Call 822-9149.

#### Philosophy Colloquium

A General Theory Of Term-forming Operators. David DeVidi, Philosophy, U. of Waterloo. Buchanan D-351 from 1-2:30pm. Call 822-3292.

#### Hort Club Seminar

Hothouses: Floriculture In The Mediterranean Region. Christia Roberts, Plant Science Greenhouse seminar room 102, near Stores Rd. from 1:30-2:20pm. Refreshments. Call 822-0894.

#### CICSR Faculty Forum

Empirical Investigations Of The Determinants And Consequences Of The Use Of Explanations In Knowledge-based Systems. Dr. Izak Benbasat, Commerce. CICSR/CS 208 at 4pm. Call 822-6894.

#### Physics Colloquium

SL9 Comet And Jupiter Impacts. Clark Chapman, Planetary Science Institute. Hennings 201 at 4pm. Call 822-3853.

#### Genetics Graduate Program Seminar

Comparative Gene Mapping, Genome Informatics And Models For Multifactorial Human Diseases. Dr. Joseph Nadeau, associate professor, Human Genetics, Montreal General Hosp., McGill. Westbrook 201 at 4:30pm. Refreshments at 4:15pm. Call 822-8764.

#### Canadian Studies Workshop

What Use Is Ethnicity To Native People? Margery Fee, English. Green College small dining room at 8pm. Call 822-5193.

### Friday, Jan. 20

#### Pediatrics Grand Rounds

PKU 30 Years On: Maternal Phenylketonuria Syndrome; Current Approaches To Prevention. Dr. Robin Casey, Pediatrics, Royal University Hosp., Saskatoon/Biochemical Diseases Clinical Service, B.C.'s Children's Hosp. GF Strong auditorium at 9am. Call 875-2307.

#### Health Care/Epidemiology Rounds

Violence In The Workplace. Dr. Robert Jin, Occupational Health Section Prevention, Div., Workers Compensation Board. Mather 253 from 9-10am. Parking available in B lot. Call 822-2772.

#### Law Seminar Series

Legal Theory, Artificial Intelligence, And Flexicon. J.C. Smith, professor. Law 178 from 12:30-1:30pm. Call 822-3151.

#### Pharmaceutical Sciences Seminar

Natural Product Drugs In The Therapy Of Asthma And Allergy. Dr. John Langlands, Inflazyme Pharmaceuticals Ltd. IRC #3 from 12:30-1:30pm. Call 822-4645.

#### Centre for Korean Research Seminar

On Chaebol In South Korea. Dr. Ilan Vertinsky, Commerce. Asian Centre 604 from 12:30-2pm. Call 822-2629.

#### Occupational Hygiene Program Seminar

Development Of An Improved Industrial Helmet: Issues In Occupational Standard Setting. Dr. Jocelyn Pedder, RONA Kinetics & Associates. Civil/Mechanical Engineering 1202 from 12:30-1:30pm. Call 822-9595.

#### Fisheries Centre Seminar

Tackling The Bycatch Problem Through Enhancement Of Post-capture Survival: The Case Of Pacific Halibut. Ralf Yorke Room, Fisheries Centre, Hut B-8 from 1:30-2:30pm. Call 822-2731.

#### Mathematics Colloquium

Rational Curves On Algebraic Varieties. Dr. Shing-Tung Yau, winner of the Fields Medal in Mathematics, 1982, Harvard U. Math 104 at 3:30pm. Refreshments at 3:15pm in Math Annex 1115. Call 822-2666.

#### Chemical Engineering Weekly Seminar

Optimum Discrete PID Controller. Mr. K. Vu, grad student. Chemical Engineering 206 at 3:30pm. Call 822-3238.

#### Theoretical Chemistry Seminars

The Relation Between Kinetic And Thermodynamic Temperatures. Dr. R.E. Nettleton, Physics, U. of Witwatersrand, S.A. Chemistry 402, central wing at 4pm. Call 822-3997.

#### SPEAK Conference

Storming The Tower: A Conference In Political Activism In The Academy. Keynote address: Feminist Revolution: The Politics Of Solidarity. Sandra Butler, co-director of the Inst. for Feminist Training, Oakland, CA. Sponsored by Feminist Caucus Of Counselling Psychology. Curtis Law Bldg. 101-102 at 8pm. \$10/7. Continues to Jan. 22. For information on Sat/Sun program call/fax 228-9060.

### Saturday, Jan. 21

#### Language Programs

Registration underway for Continuing Studies French, Spanish, Japanese, Mandarin, Cantonese, Italian, German, Korean & Portuguese Conversation classes beginning Jan. 21, 24 & 26. Buchanan D-3rd floor. For course times/information, call 822-0800.

### Monday, Jan. 23

#### Applied Mathematics Colloquium

Data Fitting With Implicit Functions. Dr. J.M. Varah, CICSR director. Math 203 at 3:30pm. Call 822-4584.

#### Cecil & Ida Green Visiting Professor

The Concept Of Diaspora In English-Canadian Historiography. Prof. Donald Akenson, History, Queen's U., Kingston. Buchanan Penthouse at 3:30pm. Call 822-5675.

#### Astronomy Seminar

The Nearby Universe: Maps, Mass And Motion. Mike Hudson, U. of Durham. Geophysics/Astronomy 260 at 4pm. Refreshments. Call 822-2696/2267.

#### Commerce Research Development Seminar

Tricks Of The Tobacco Trade: Targets/Tactics In Cigarette Promotion. Dr. Richard Pollay, Commerce Professional Research Excellence Award winner '93-'94. David Lam 142 from 4:30-6pm. Refreshments. Call 822-8488.

### Tuesday, Jan. 24

#### Pharmaceutical Sciences Seminar

Structure-function Relationship Of The Non-chelating Residues In The Loop Region Of The HLH Cation Binding Motif. Patrick Franchini, grad student, Pharmaceutical Sciences. IRC #3 at 12:30pm. Call 822-4645.

#### Animal Science Seminar Series

Stress Protein Expression And Inflammation In Fish. Robert Forsyth, PhD student, Animal Science. MacMillan 256 at 12:30pm. Refreshments. Call 822-4593.

#### Philosophy Colloquium

A Procedural Model For Analogi-

## 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 Community Relations Office, 207-6328 Memorial Road, Vancouver, B.C. V6T 1Z2. Phone: 822-3131. Fax: 822-2684. Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space.

Deadline for the January 26 issue of *UBC Reports* — which covers the period January 29 to February 11 — is noon, January 17.

# Calendar

## January 15 through January 28

cal Reasoning. Paul Bartha, Philosophy, U. of Pittsburgh. Buchanan Penthouse from 1-2:30pm. Call 822-3292.

### Botany Seminar

Components Of Competitive Ability: Distinguishing Between Competitive Effect And Response. Dr. Deborah Goldberg, U. of Michigan. BioScience 2000 from 12:30-1:30pm. Call 822-2133.

### Oceanography Seminar

The Ocean As A Source For Rapid Interglacial Climate Fluctuations. Dr. Andrew Weaver, School of Earth/Ocean Sciences, U.Vic. BioScience 1465 at 3:30pm. Call 822-4511.

### Cecil & Ida Green Visiting Professor

Sorting Out The Orange And The Green: Max Weber Visits Ireland. Prof. Donald Akenson, History, Queen's U., Kingston, Buchanan D-244 at 3:30pm. Call 822-5675.

### Green College Seminar

Canadian Architecture In The 19th Century. Allan Evans, Classics. Green College Coach House at 5:30pm. Call 822-8660.

### Centre for Applied Ethics Colloquium

Emerging Social Issues On The Internet/Information Highway. Dr. Richard Rosenberg, Computer Science. Angus 415 from 4-6pm. Call 822-5139.

### Medical Genetics Seminar

A Pilot Project For Predictive Testing For Breast Cancer In B.C. Karen Sedun, genetic counsellor, Medical Genetics. Wesbrook 201 at 4:30pm. Refreshments at 4:15pm. Call 822-5312.

### Geography Colloquium

Bertrand Russell: Passionate Sceptic. Dr. Philip Hill, Mechanical Engineering, Buchanan B penthouse at 4:15pm. Refreshments at 4pm. Call 822-3112.

## Wednesday, Jan. 25

### Orthopaedics Grand Rounds

Anaesthesia For Spinal Cord Injured Patients. Dr. J. Berezowsky, Orthopaedics, Vancouver Hosp./HSC Eye Care Centre auditorium at 7am. Call 875-4272.

### Microbiology/Immunology Seminar

Self-splicing And Recombinogenic Properties Of A Chloroplast Intron From Chlamydomonas. Dr. Franz Durrenberger, Biotechnology Lab. Wesbrook 201 from 12-1:30pm. Call 822-3308.

### Wednesday Noon Hour Concerts

Music for Winds featuring faculty artists including bassoonist Jesse Read. Music Recital Hall at 12:30pm. \$2.50. Call 822-5574.

### Rehabilitation Sciences Seminar

Biomechanics Of Muscle Injury. Dr. Richard Lieber, professor of Orthopaedics/Bioengineering, U.S.C. San Diego. Koerner Pavilion, lab-8 at 12:30pm. Call 822-7392.

### Centre for Japanese Research Seminar

Saving And Growth: Is High Saving Good News? Dr. M. Saito, Economics; Somchai Jitsuchon,

PhD student. Asian Centre music studio from 12:30-2pm. Call 822-2629.

### Geography Colloquium

Malice In Blunderland: The Biogeography Of Fisheries Collapse - Science To Policy. Dr. Carl Walters, UBC Fisheries Centre/Zoology. Geography 201 at 3:30pm. Refreshments. Call 822-4929.

### Centre for Southeast Asian Research Seminar

Out/Standing In Her Field? Reflections On Feminist Fieldwork In The Philippines. Deidre McKay, PhD candidate, Geography. Asian Centre 604 from 3:30-5pm. Call 822-2629.

### Pharmaceutical Sciences Seminar

Do Corticosteroids Induce Ulcers And Is Prophylaxis For PUD Justified? Mr. Alan Low, PhD student, Clinical Pharmacy, UBC Hospital G-279 from 4-5pm. Call 822-4645.

### Green College Lectures

Punishment And Crime Lectures. Dangerous Offenders. Christopher Webster, professor/chair, Psychology, SFU; Robert Menzies, Criminology, SFU. Green College Coach House from 5-6:30pm. Call 822-8660.

### Distinguished Speakers Series

First of four evenings. The Making Of The Greatest Living Irishman. Sponsored by Cecil and Ida Green Visiting Professorships. Donald Akenson, Hotel Georgia from 7:30-9:30pm. \$10 per lecture or \$35 for all four. Call 822-1450.

### Green College Nineteenth Century Studies Colloquium

God, Mammon, And The Marketplace: Religious Issues In The Nineteenth Century. Paul Lewis, Religious Studies; Don Lewis, Regent College. Green College Coach House at 8pm. Call 822-8660.

## Thursday, Jan. 26

### Pathology/Laboratory Medicine

Molecular Genetics: New Tools To Study Disease Progression. Dr. D. Horsman, Pathology/Laboratory Medicine. Vancouver Hosp./HSC Eye Care Centre auditorium at 8am. Call 875-4577.

### UBC Board of Governors Meeting

Held in the Board and Senate room, second floor of the Old Administration Building, 6328 Memorial Rd. The open session begins at 9am.

### Cecil & Ida Green Visiting Professor

Yahwek And The History Of South Africa. Prof. Donald Akenson, History, Queen's U., Kingston, Buchanan A-104 at 12:30pm. Call 822-5675.

### UBC International Forum Lecture

Globalization And Fragmentation: The Aboriginal Response. Rosemarie Kuptana, president, Inuit Tapirisat of Canada. IRC #1 from 12:30-2pm. Call 822-9546.

### Institute of Asian Research Seminar

Russia In World Politics. Dr. Alex Alaf. Asian Centre 604 from 12:30-2pm. Call 822-2629.

### Philosophy Colloquium

Deflationary Truth And Paradox. Philip Kremer, Philosophy, Stanford U. Buchanan penthouse from 1-2:30pm. Call 822-3292.

### Physics Colloquium

Magnetic Force Microscopy. Peter Grutter, McGill U. Hennings 201 at 4pm. Call 822-3853.

### Dal Grauer Memorial Lectures

Ann Schein Piano Recital. Performing the works of Beethoven, Schubert, Rachmaninoff and Chopin. Music Recital Hall at 5pm. Admission \$16/9. Call 822-8574.

## Friday, Jan. 27

### Pediatrics Grand Rounds

Clinicopathological Conference.

## Notices

### Student Housing

A service offered by the AMS has been established to provide a housing listing service for both students and landlords. This service utilizes a computer voice messaging system. Students call 822-9844, landlords call 1-900-451-5585 (touch-tone calling) or 822-0888, info only.

### Grad Centre Activities

Dance To A Latin Beat. Every Thur. at the Graduate Centre at 8:30pm. To find out more about free Mon. movies (presently Japanese) in the Tai Chi and the Grad Centre, free Tai Chi and other activities call the hot-line at 822-0999.

### International Student Services

Women's Support Group. Jennie Campbell, International Student Advisor/Program Coordinator, International House every Thurs. between 4-5pm. Call 822-5021.

### Campus Tours

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

### UBC Libraries

Library branches and divisions are offering more than 100 tutoring/tutoring sessions this term. Learn how to use the online catalogue/information system, or one of more than 75 electronic databases in the library. Check branches/divisions for times and dates. Call 822-3096.

### Clinical Research Support Group

Under the auspices of Health Care/Epidemiology. Provides Methodological, biostatistical, computational and analytical support for health researchers. Call 822-4530.

### Disability Resource Centre

The centre provides consultation and information for faculty members with students with disabilities. Guidebooks/services for students and faculty available. Call 822-5844.

### Women Students' Office

We are taking registration for January groups including Mature Women Students; Self-esteem; Assertiveness Training; and Women of Colour and Meditation. Personal counselling and advocacy

Dr. James Dimmick, head, Pathology; Dr. David Riddell, Pediatrics. GF Strong auditorium at 9am. Call 875-2307.

### Health Care/Epidemiology Rounds

Managing Health Technology. Dean George Eisler, School of Health Sciences, BCIT. Mather 253 from 9-10am. Call 822-2772.

### Law Seminar Series

The History Of First Nations Fisheries. Prof. Dianne Newell, History. Curtis 149 from 12:30-1:30pm. Call 822-3151.

### Occupational Hygiene Programme Seminar

Bioethics Of Genetic Screening. Dr. Michael Burgess, visiting fellow, Centre for Applied Ethics. Civil/Mechanical Engineering

1202 from 12:30-1:30pm. Call 822-9595.

### Mathematics Colloquium

Improved Use Of The Gibbs Sampler. Dr. Priscilla E. Greenwood. Math 104 at 3:30pm. Refreshments at 3:15 in Math Annex 1115. Call 822-2666.

### Chemical Engineering Weekly Seminar

Methane Homologation By A Low-temperature Two-step Reaction. Dr. Goran Boskovic, research associate. Chemical Engineering 206 at 3:30pm. Call 822-3238.

### Theoretical Chemistry Seminars

Application Of Fokker-Planck Models To Globular Clusters. Dr. G. Fahlman, astronomer. Chemistry 402, central wing at 4pm. Call 822-3997.

### Audiology/Speech Sciences Study

Volunteers needed with normal hearing, who are native-English speakers; 18-35 years old, with no previous instruction in linguistics to participate in a study of speech perception in noise. Honorarium paid. Call 822-5054.

### Statistical Consulting/Research Laboratory

SCARL is operated by the Dept. of Statistics to provide statistical advice to faculty/staff/students. During Term 2, 94/95, up to 3 hours of free advice is available for selected clients. Call 822-4037.

### Faculty and Staff Volleyball

Mondays/Wednesdays 9pm B. Osborne Centre at 12:30pm. Drop-in or attend regularly for recreation. Call 822-4479.

### Badminton Club

Faculty/staff/grad students welcome. Osborne Gym A. Fridays from 6:30-9:30pm. \$15 yr; \$5 drop in. John Amor, Geophysics/Astronomy. Call 822-6933.

### Surplus Equipment Recycling Facility (SERF)

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

### Fine Arts Gallery

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

### Nitobe Garden

Winter hours are Mon-Fri from 10am-2:30pm. Admission is free. Call 822-6038.

### Botanical Garden

Open daily from 11am-5pm. Shop in the Garden, call 822-4529; garden information, 822-9666.

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**UBC Reports**  
For ad rate and deadline  
information call 822-3131



# LAND USE AND DEVELOPMENT OBJECTIVES

**The UBC Board of Governors, at its December, 1994 meeting, approved an agreement to work with the Greater Vancouver Regional District on the development of an Official Community Plan for the UBC campus. The agreement has since been ratified by the GVRD.**

**As part of the agreement (see UBC Reports Dec. 15, 1994), the university is committed to providing the GVRD with a set of Land Use and Development Objectives so regional district staff can proceed with developing the Official Community Plan. The following is a first draft of the objectives for campus discussion, comment and input. They will be presented as information to the Board of Governors on January 26, for discussion, with the intention that final objectives will be adopted in March.**

**Please forward comments to the director of Campus Planning and Development at 2210 West Mall; Fax: 822-6119.**

## LAND USE AND DEVELOPMENT OBJECTIVES

The University of British Columbia, as an academic enterprise, is an important local, regional, provincial, and national resource. Historically, the University has always been an important part of the city of Vancouver. The great cities of the world are those in which universities are centres of academic and cultural interaction. The concept of the major academic and educational institution as an essential component in a growing, dynamic and vibrant city will continue to be a key element of the mission of the University.

The growth of the University parallels the growth of the city of Vancouver. The University can reasonably expect to continue experiencing a wider diversity of educational, recreational, and cultural activities on the campus. The pressures of regional growth and change, as well as increasing utilization of the campus by the wider community, challenge the University to continue to build and develop its traditional reciprocal link to the city.

As a place, the University is beautiful, admired across the country; however, there are many parts of the campus with serious deficiencies and unrealized potential. As a community, the campus is unbalanced and incomplete in two major respects; first, while the sense of community is continuing to develop with many more people living on campus, there is still the impression of a place alive and inhabited only during working hours, lacking the balance of a well rounded and active environment. Second, the campus land use should be integrated with the Greater Vancouver Regional District's Livable Region Strategy for growth management.

In response to its mandate to be the senior institution of higher education and research in a vibrant pacific city, the University will responsibly develop land in order to support the academic and research mission. All income from long term leases will be used for endowments, for long term assets which directly support the mission, and which allow the University to develop the margin of excellence into the long term future. Under University policy, endowments are managed as appreciating assets. For example, each faculty position added to the University contributes to the growth and development of the province by way of

teaching, research, and indirect economic activity.

Land use and development objectives will also ensure that all development contributes to a sophisticated vision based, not only on site and building related specifics, but also on a consideration of sociological and operational issues informed by a regional and demographic perspective.

### A. PROTECT THE GREEN ZONE

The development objectives in this category include:

- i. Capitalize on Pacific Spirit Park, one of the world's great urban parks, through careful siting of adjacent development.
- ii. Ensuring that campus development captures the maximum possible views of the ocean.
- iii. Preserve managed natural areas such as the Botanical Gardens, Nitobe Gardens and selected wooded areas.
- iv. Preserve and further develop formal and informal landscapes to sustain and enhance the sense of a "garden campus". Significant elements will include the Escarpment, North Lawn, Rose Garden, Main Mall, Library Square, Fairview Square, South Lawn, Main Mall extension, the Stadium, the Playing Fields, including MacInnes Field, and extensive planting throughout the campus.
- v. Incrementally reduce surface parking lots through such measures as the construction of parkades, encouragement of bicycles and transit, reduction of oversized roadways, transit supportive development, and the establishment of a viable resident population.
- vi. Accommodate core academic and support growth through infill and intensification within the confines

of the current Main Campus area north of Thunderbird Boulevard.

### B. BUILD A COMPLETE COMMUNITY

The development objectives in this category include:

- vii. Balance the proportion of residents and build a well-rounded community by increasing the residential population between 1995 and 2021.
- viii. In keeping with the value of the campus to the wider community, strengthen accessibility to the campus and the visibility of its activities.
- ix. While maintaining the primacy of academic use, strengthen other uses such as cultural, residential, commercial, research, retail, and community services.
- x. Ensure a mixed use concept of land development which precludes isolated single purpose enclaves.
- xi. Develop and reinforce a distinct campus landscape character, distinguished by a mix of urban streetscapes and open spaces.
- xii. Reduce the barrier effects of and land consumed by major traffic arteries and create physical and visual linkages across them.
- xiii. Create human scaled road networks which function as multi use public places as well as movement corridors.
- xiv. Provide a balance between various complementary land uses allocating approximately 70% (of which close to 40% is developed, leaving about 30% for future uses) of the 383 hectare campus for academic, research, and related institutional use (including student housing) and approximately 30% of the campus for market housing.
  - a) Approximately 85 hectares (22%) to academic and support use north of Thunderbird Drive in the existing main campus.
  - b) Approximately 50 hectares (13%) to student housing north of Thunderbird Drive, (including Theological Colleges) in the existing main campus.
  - c) Approximately 30 hectares (8%) to university housing east of Wesbrook Drive.
  - d) Approximately 25 hectares (7%) to Botanical Gardens south of Thunderbird Drive.
  - e) Approximately 5 hectares (1%) to Plant Operations.
  - f) Approximately 25 hectares (7%) to athletic facilities and fields south of Thunderbird Drive.
  - g) Approximately 50 hectares (13%) to research south of Thunderbird Drive.
  - h) Approximately 10 hectares (3%) to existing Hampton Place for market housing.

i) Approximately 50 hectares (13%) to market housing south of Thunderbird Drive.

j) Approximately 50 hectares (13%) south of Thunderbird Drive as a reserve for future market housing, part or all of which may be used for low intensity academic or research use in the interim.

k) Adjacent to the campus, on land owned by University, fraternities and the Provincial Government, approximately 3 hectares (1%) to be developed for affordable housing in a joint venture between the University and the Province.

xv. Improve vehicular, bicycle and pedestrian connections between various parts of the campus.

xvi. Provide public focal points: the main academic core, a commercial and service area, and athletics and recreation focuses, all of which are connected by a general network of greenspaces and road systems.

xvii. Provide housing types with an emphasis on compact, small footprint forms.

xviii. Provide optimal public safety by careful location and design of building types, movement systems, utilities, and public services.

### C. ACHIEVE A COMPACT METROPOLITAN REGION

The University can assist in meeting this regional objective by:

- xix Accommodating a significant share of residential growth slated for Vancouver that is compatible with UBC's primary mission to support its academic enterprise.
- xx. Ensuring that all land uses utilize as compact a form as possible.

### D. INCREASE TRANSPORTATION CHOICE

The major way in which UBC can contribute to the weaning of the Region from an overwhelming dependence on automobiles is to:

- xxi. Provide opportunities for people to live close to the core of Vancouver, and hence reduce the travel from suburban centres.
- xxii. Support the Region's Traffic Demand Management measures such as utilizing high occupancy vehicles, increasing parking charges, and exhibiting preference for transit, bicycles and pedestrians.
- xxiii. Create a flexible campus road, bicycle and pedestrian network which links to similar networks beyond the campus.
- xxiv. Provide for a modern regional transit terminus and a flexible and distributed transit service on campus.
- xxv. Anticipate that regional transit planning will include the university community in future rapid transit initiative.





The Board of Governors took the following action at its meeting held on December 1, 1994.

**PROPERTY**

The Board approved the firm of Busby Bridger/MBT Associates as the Prime Consultants/Architects for the Earth Sciences Project.

The following construction contracts were awarded:

- Chan Centre for the Performing Arts
- The Walter C. Koerner Library (Central Library—Phase I)

**FINANCE**

The 1995-96 Budget for Child Care Services was approved. Guidelines for the provision of child care services were also approved.

The Board approved rent structures for 1994-95 for the Thunderbird Residence.

The following fees were approved:

- (1) The establishment of tuition fees at \$12,000.00 for students entering the Pharm.D. program in September 1995, and
- (2) A special Practice Fee of \$200.00 for students in the fourth year of the B.Sc. (Pharm.) Program to take effect for the 1995-96 academic year.

**POLICIES**

The Board approved the following policies; and noted the President's procedures for imple-

The Board of Governors at its meeting of December 1, 1994 approved the following recommendations and received notice about the following items:

**APPOINTMENTS**

**Marcia A. Boyd**, Associate Dean, Faculty of Dentistry, July 1, 1994 to June 30, 1995.

**George E. Kennedy**, Head, Department of Agricultural Economics, Oct. 1, 1994 to June 30, 1996.

**Richard Hodgson**, Acting Head, Department of French, Jan. 1, 1995 to June 30, 1995.

**Elizabeth Croft**, Assistant Professor, Department of Mechanical Engineering, Apr. 1, 1995 to June 30, 1998.

**Daniel Fraser**, Assistant Professor, Department of Mechanical Engineering, Jan. 1, 1995 to June 30, 1998.

**Deborah Giaschi**, Assistant Professor, Department of Ophthalmology, Sept. 1, 1994 to June 30, 1997.

**Maleki Daya**, Assistant Professor, Department of Pathology, July 1, 1994 to June 30, 1997.

**Edwin D.W. Moore**, Assistant Professor, Department of Physiology, Jan. 1, 1995 to

mentation and administration.

- Extraordinary Expenses—Grant and Contract-funded Employees

- Consultation with Students about Tuition Fees

**ACADEMIC AND STUDENT AFFAIRS**

The Board approved the following Senate recommendations:

- New Diploma Program in Forestry (Advanced Silviculture)
- Establishment of the Life Skills Motivation Centre within the Institute of Health Promotion Research, Faculty of Graduate Studies, effective January 1, 1995.
- An Endowment Deed was approved for the Ronald L. Cliff Professorship for Junior Faculty in Accountancy.

The Board approved a change in the Endowment Deed to reflect the conversion of the Chair in Audiology and Speech Sciences to the Professorship in Audiology and Speech Sciences.

**APPOINTMENTS**

Dr. Michael Smith and Dr. Raphael Amit were appointed as Peter Wall Distinguished Professors; Dr. Smith as Professor of Biotechnology and Dr. Amit as Professor of Entrepreneurship and Venture Capital.

**OTHER BUSINESS**

The Board approved the restructuring of and appointments to the University Athletic Council.

June 30, 1998.

**Peter Liddle**, Professor, Department of Psychiatry, Oct. 17, 1994.

**Lynn Raymond**, Assistant Professor, Department of Psychiatry, Sept. 1, 1994 to June 30, 1997.

**William Jia**, Assistant Professor, Department of Surgery, Oct. 1, 1994 to June 30, 1997.

**Lorne A. Whitehead**, Associate Professor, Department of Physics, Oct. 1, 1994 to June 30, 1997.

**RESIGNATIONS**

**Vadilal Modi**, Professor, Department of Mechanical Engineering, Dec. 30, 1994.

**Penelope Quintana**, Assistant Professor, Occupational Hygiene Program, Dec. 31, 1994.

**Gordon Phillips**, Professor, Department of Medicine, Nov. 9, 1994.

**Deirdre Webster**, Assistant Professor, School of Rehabilitation Sciences, June 30, 1995.

**Luis Sobrino**, Professor, Department of Physics, Dec. 30, 1994.

**Erich Vogt**, Professor, Department of Physics/TRIUMF, Dec. 30, 1994.

# Emerging Asian markets focus of conference

by Abe Heffer

Staff writer

Students in the Faculty of Commerce and Business Administration will provide a forum for individuals interested in exploring new venture opportunities in the Pacific Rim.

Bridging the Pacific - New Venture Opportunities in Emerging Markets, will be held Jan. 20-21 at the Waterfront Centre Hotel in Vancouver.

The conference, which will combine keynote speakers, panels, and an information fair, will provide attendees with an opportunity to learn from the experiences of business professionals who have participated in the establishment of new ventures in Asia.

"Last year's conference, our first, centred on general business opportunities in the Pacific Rim," said second-year graduate student Hanna Krause, the 1995 conference co-chair.

"The focus this year is on new venture opportunities in emerging Pacific Rim markets such as Vietnam, Indonesia, Korea and Malaysia," said Krause. "We're hoping to attract people in entrepreneurial positions within their respective organizations, and others generally interested in the opportunities available in the Asian marketplace."

The conference organizing committee consists of 20 graduate and undergraduate students, including undergraduate co-chair Michiyo Iizuka, as well as a group of faculty advisers.

Keynote speakers include Ron Erdman, president of Wardley Canada, and Stan Ridley, president of B.C. Hydro.

Last year's conference drew 175 delegates. Krause is anticipating closer to 250 delegates this year, as a result of increased participation by the Vancouver

business community.

The concurrent sessions will be hosted by entrepreneurs with successful first-hand experience in the Pacific Rim. Speakers will share their personal experiences and will discuss subjects such as identifying



Hanna Krause

market opportunities, developing joint ventures, reaching Asian investors, and overcoming cultural differences.

For more information on Bridging the Pacific - New Venture Opportunities in Emerging Markets, call 822-6016.



Abe Heffer photo

## Partners In Education

Management committee members of the Canada-China university partnership met at UBC Dec. 13 to discuss developments in the areas of telecommunications, biotechnology and environmental management. UBC, McGill University, the University of Toronto and l'Universite de Montreal have joined with three of China's largest research universities, Peking, Tsinghua and Nankai, in a collaborative effort that covers a number of areas of graduate research. Committee members (l-r) are Prof. Wang Jikang, Tsinghua University; Prof. Bernard Sheehan, associate vice-president, Computing and Communications, UBC; Prof. Zhang Maizeng, Nankai University; Prof. Olav Slaymaker, associate vice-president, Research, UBC; UBC Law Prof. Ivan Head; UBC Asian Studies Prof. Daniel Overmyer; and Xia Hong Wei, Peking University. UBC President David Strangway will host a meeting of the seven university partnership presidents April 9-10.

# Pharmacy doctoral students to face tuition increase this fall

by Connie Filletti

Staff writer

Annual tuition fees for UBC's doctoral program in Pharmacy (PharmD) will rise from \$2,181 to \$12,000 in September, 1995 to support the clinical component of the program.

The fee increase was approved by UBC's Board of Governors at its December meeting.

"Since the program was launched in 1991, the clinical teaching has been done by dedicated volunteers," said John McNeill, dean of the Faculty of Pharmaceutical Sciences.

"But as hospitals face tight budgets and diminishing revenues, it is becoming increasingly difficult for us to find clinical sites and clinical mentors for our students."

The two-year program, which consists of eight months of course work and one year of clinical clerkship, was the first offered at a Canadian university.

Dan Birch, vice-president, Academic and Provost, explained that because the program is currently unfunded, 70 per cent of the additional tuition revenue will be remitted to the faculty and 30 per cent will be retained by the university for general infrastructure costs.

"We have concerns about such a high tuition but it is in line with fees charged by other universities," McNeill said. "It should also

be possible to raise funds for scholarships and bursaries to assist students in the program."

Tuition at The University of Toronto, the only other Canadian university offering a PharmD, is \$12,500.

Canadians enrolled in PharmD programs at American institutions pay fees ranging from \$6,100 at the University of Utah to \$20,345 at the University of Southern California.

## \$200 practice fee introduced for fourth-year pharmacy students

UBC's Board of Governors has approved a \$200 practice fee for fourth-year BSc (Pharm) students beginning in the 1995/96 academic year.

"Fourth year undergraduate Pharmacy students undertake 10 weeks of clinical internship and the amount now designated in the faculty's budget is less than half the amount it spends annu-

ally on the clinical program," said Dan Birch, vice-president, Academic and Provost.

John McNeill, dean of the Faculty of Pharmaceutical Sciences, noted that several U.S. universities charge similar fees of \$300 and up.

The entire practice fee will be retained by the faculty for teacher training and the purchase of teaching materials.

## Forum

# Hastily introduced grading policy presents a challenge for teachers

by Gaalen Erickson

Prof. Gaalen Erickson is the director of UBC's Centre for the Study of Teacher Education. The following remarks were drawn from a lecture he gave initiating a free, three-part UBC lecture series on important educational issues in B.C. Coming lectures: *Accountability: Can we know if schools are doing a good job*, Prof. Doug Willms, Jan. 25; *Equity: Who wins?* Prof. Jane Gaskell, April 26. For more information on upcoming lectures at the Robson Square Conference Centre please call 264-0627.

In the new ministry policy on student assessment, evaluation and reporting three changes have been introduced:

- Grade 4 to 7 teachers must now use letter grades (previously it was optional);

- teachers at all grades are to include "structured written comments" outlining what the student is currently able to do, what difficulties he or she is experiencing, and what type of support is required of parents and teachers to improve the student's performance;

- letter grades in each subject are to be based upon criteria derived from the expected learning outcomes in the curriculum guides (most of which are currently under revision).

A number of issues must be clarified and factors addressed before these policy initiatives will have the desired effects of improving the evaluation and reporting of student performance. First, it must be recognized that the judgments involved in assigning grades to students requires teachers to

develop an extensive knowledge base in a number of different domains, including the subject matter in which the evaluative judgment is being made, the social and intellectual developmental characteristics of the learner, contemporary instructional techniques and technology, and the general societal expectations of schools. Second, everyone needs to be clear that according to the new policy, the primary purpose of assigning letter grades is educational (where grades are indicators of actual achievement and play a feedback role for students and parents) and not motivational (where grades are used as a "carrot" or a "stick" to promote learning) or selective (where grades are used to sort students for other educational institutions or for some employment opportunities). Third, the many different interpretations of what is meant by a letter grade must be addressed. Many teachers, parents and students alike think that effort as well as achievement ought to be included in the assigning of a letter grade. Effort and achievement of some intended learning outcome are two very different judgments and should not be combined in one letter grade. Finally, the language in forthcoming ministry documents elaborating on the new policy must be much clearer about the nature of criterion-referenced evaluation,

provide a more extensive rationale for its introduction, and clarify the role of the teacher versus that of the ministry regarding the setting of standards and criteria used in making these evaluative judgments.

The strengths are that the ministry policy makes it more apparent that the purpose of student assessment and evaluation is to provide a clear accounting of student achievement for both parents and students. The policy also encourages the participation of students and parents in the assessment process through the use of strategies such as student portfolios, student self-assessment techniques and student-parent conferences. Finally, it should result in more clearly defined curricular documents in which the intended learning outcomes for a given subject area at each grade level are clearly specified and capable of being understood by students and parents.

In terms of weaknesses, the primary criticism is the great haste with which the policy was introduced. Teachers, school administrators and parents were left wondering, even as late as October, what the new report card would look like. Another concern is that the emphasis on letter grades may return us to some of the practices that emerged during the era of behavioural objectives in the 1970s. Then, the temptation was to only teach to those educational outcomes that could be measured with some so-called "objective" assessment instrument. In other words

instruction would be reduced to include only those topic areas that could be easily measured.

Another potential problem can occur with the use of letter grades when younger students are "labelled" as a result of receiving a low grade. This may influence a child's sense of self-esteem, and how parents and

teachers respond to that child. Also, with an increased focus on letter grades, learning may become associated with this extrinsic reward system in a sort of "performance for grade" game. This may well work against what I consider to be one of the primary purposes of schooling and that is to inspire in students a sense of enjoyment and wonder in learning and to develop their critical capabilities to analyse and deal effectively with the challenges they will encounter in life.

Because this shift in grading practices is significantly different from previous practices, more resources will be needed to explain this policy initiative to teachers and to parents. It will entail a substantial and sustained effort to communicate the nature of criterion-referenced evaluation through a series of workshops and public meetings. Without such efforts, these policy changes will leave teachers with the unenviable task of attempting to implement a program that has not been sufficiently articulated to the educational community nor the public at large. Given the increased demands and responsibilities placed on contemporary schools, teachers and their students need all the support and assistance of this sort that we can offer.

**A potential problem can occur with the use of letter grades when younger students are "labelled" as a result of receiving a low grade. This may influence a child's sense of self-esteem, and how parents and teachers respond to that child.**

## Classified

The classified advertising rate is \$15.75 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 Community Relations Office, 207-6328 Memorial Road, Vancouver, B.C., V6T 1Z2, accompanied by payment in cash, cheque (made out to UBC Reports) or internal requisition. Advertising enquiries: 822-3131.



The deadline for the Jan. 26, 1995 issue of UBC Reports is noon, Jan. 17.

### Services

**FINANCIAL PLANNING** Retirement Income, Deposits, Investment Funds, Life Insurance. Local, independent, personalized service with comprehensive knowledge. Integrating your financial needs to your own personal, professional association, group and government benefit plans. Please call Edwin Jackson BSc, BArch, CIF, 224-3540. Representative of GEORGIA Brokerage Inc.

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### Wanted

**INVESTMENT CLUB** members. The Dunbar Investment Club would welcome new members. This group has monthly meetings to discuss and make investments in stocks with long-term growth potential. If interested, call Dan 822-6138.

### REWARD

Richmond RCMP is seeking your assistance in finding a person named STEVE from UBC's Place Vanier residence.

STEVE contacted Lawson Mardon Packaging on Dec. 21, 1994, regarding a stolen lap top computer he purchased on campus.

Lawson Mardon is offering a reward to STEVE if he comes forward. For information please contact Cst. MJM Germain at 278-1212.

### 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, B.C. V6R 2H2. Call (604) 228-8635.

**JERICHO BEACH GUEST HOUSE** Ideal accommodation for UBC visitors, close to UBC, reasonable rates. 3780 W. 3rd Ave. Call hosts Ken and Carla Rich at 224-1180.

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**CLOSE TO UBC** 3 (or 4) bedrm Vancouver house in Sasamat/W. 12th Ave. area - close to UBC, shopping, entertainment, transportation - will be available Jan. 1995. Asking \$2,200/mo. incl. gardening, but not utilities. Long-term tenant (12-18mos.) preferred. Philip Rodgers 240-4816.

**PEACEFUL RETREAT** All the comforts of home for UBC visitors. Beautiful forested acre setting - minutes to UBC beaches. Spacious, private 1 bdrm garden suite (over 1,000 sq.ft.) N/S. Weekly/monthly rates. Available now. 222-0060.

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**SPECTACULAR GALIANO** Island retreat. Enjoy breathtaking panoramic views over Montague Harbour. Private and quiet west coast cedar home over 2,000 sq.ft., 3 bdrm, 2 bath, full kitchen, washer/dryer, open plan living areas, stone fireplace, workshop, two car carport, mature landscaped garden. Close to all amenities. Partially furnished. (One year lease available). Call evenings (604) 261-4987.

### Office To Rent

**OFFICE SPACE** Vancouver professional office with waiting room; medical licence; 483 sq.ft; \$770/mo. 264-7205.

# Materials and Process Engineering Laboratory Practical approach removes barriers between researchers

by Gavin Wilson

Staff writer

You have to look beyond the bricks and mortar if you want to understand the Advanced Materials and Process Engineering Laboratory (AMPEL) building, says its director, Prof. Tom Tiedje.

It's not just another research facility being built on East Mall, but a whole new way of tackling technological research problems at Canadian universities.

"Traditionally, research at universities is done through departments, and this can create barriers between researchers even if they are working in similar areas," said Tiedje, who holds joint appointments in the departments of Physics and Electrical Engineering.

"For example, at UBC there are a number of departments involved in materials research, but right now they are isolated from each other. It's difficult to get any economies of scale or synergy of ideas.

"In this building we will be able to pool resources and bring together activities that are related in science and technology, but disconnected administratively. It's a practical approach that's more common in industry than it is in academia," he said.

When construction of the \$21-million building is completed in June, AMPEL will be a major research centre on campus. Faculty and graduate students from four different departments (Chemistry, Electrical Engineering, Metals and Materials Engineering and Physics) will work side-by-side to better understand the properties of materials and develop new processes for producing materials in useful forms.

Tiedje said the advantages of the new facility are many: it will enhance interactions between researchers working in related areas, allow more efficient operations, appeal to funding agencies and attract more industry involvement because it is more compatible with its needs.

The AMPEL building will have an important educational role, he added, especially in graduate education. Students will benefit by having better access to modern equipment and instrumentation that may now be inaccessible to them in other departments. They will also benefit from exposure to the different cultures that exist in disciplines outside their own, he said.

Covering nearly 8,000 square metres of space over four storeys, the AMPEL building will include specialized facilities not available elsewhere at UBC, such as high headroom labs that have space for heavy industrial machinery.

The high headroom lab will be the new home for the Centre for Metallurgical Process Engineering, now based in the Forward Building.

AMPEL will also feature a "clean room" for fabricating electronic devices in a



Gavin Wilson photo

**Tom Tiedje, with drawings of the new Advanced Materials and Process Engineering Laboratory.**

controlled environment that is sealed off from the outside and free of dust and particles.

Tiedje, who began his three-year appointment as director last June, said that AMPEL will also be serviced with adequate power, water and ventilation for materials research, unlike some buildings currently used for materials research, which were designed without the services needed for safe and efficient operation.

Work conducted in the new building will generate new discoveries and help create new industries and high quality jobs for the future as well as support existing industries, he said.

AMPEL researchers will be working on a variety of different materials including ceramics, composites, metals, semiconductors and superconductors. Tiedje said the building will bring together under one roof one of the best collections of modern instrumentation in Canada for studying the properties of materials.

Materials processing will be another important activity in the new building, he said. Activities in that field will be as diverse as the development of environmentally sound processes for resource industries and the fabrication of semiconductor lasers for fibre-optic communications systems.

AMPEL does not have enough space to accommodate all the materials research on campus, Tiedje said, but it will be a focal point for materials research at UBC.

"We expect it to become an important centre provincially and nationally, as well," he said.

Linked by bridges to the Civil and Engineering Building, AMPEL is located in the applied sciences precinct at the south end of Main Mall, near the Centre for Integrated Computing Systems Research/Computer Science Building, the MacLeod Building (Dept. of Electrical Engineering) and the Pulp and Paper Centre.

## People

by staff writers

Commerce and Business Administration Prof. **Trevor Heaver** has been elected president of the International Association of the Maritime Economists (IAME) for a two-year term.

IAME was formed in 1992 and comprises more than 350 members from approximately 50 countries.

The director of the faculty's Centre for Transportation Studies, Heaver has acted as a consultant to provincial, federal and foreign governments on a range of transportation policy issues. He has also worked as a consultant to shippers and railways on management and policy issues.

• • • •

The Water Environment Federation's 1994 Willem Rudolfs Medal for noteworthy accomplishment in industrial waste control has been awarded to

Assoc. Prof. **Eric Hall** of the Dept. of Civil Engineering.

The 40,000-member federation is a non-profit technical organization dedicated to the preservation and enhancement of the global water environment. Hall holds the Chair in Forest Products Waste Management as part of the environmental engineering group within the Dept. of Civil Engineering. His research focuses on methods of treating pulp and paper mill effluent, especially chlorinated organic compounds.



Hall

• • • •

Two former students from the Dept. of Creative Writing have won major awards for their work. **Morris Panych**, UBC graduate of 1977, received the 1994 Governor General's Award in English Drama for his comic full-length play, *The Ends of the Earth*. **Murray Logan**, a 1993 creative writing graduate, is winner of the 1994 Du Maurier One-Act Competition held by Vancouver's New Play Centre. Logan won for his play, *Deathland*.



D. Thomson photo

## Saving Grace

**Thunderbirds goaltender Paul Hurl comes up big during UBC's 3-2 win over the Alberta Golden Bears during the recent Father Bauer Hockey Classic at the Winter Sports Centre. Hurl emerged as a tournament all-star while the T-Birds lost 4-3 to Litvinov of the Czech Republic in the championship game.**

## News Digest

The tender for construction of the Walter C. Koerner Library has been awarded to Foundation Building West Inc. for \$20.2 million.

The project is the first phase of a new central library for the university, which will eventually replace the aging facilities in the existing Main Library.

Site preparation and clearing is underway. Occupancy of the building is slated for November, 1996.

• • • •

The Main Mall Restoration Project is continuing this month with the planting of a dozen oak trees.

The oaks have been inspected by a certified arborist and UBC's head gardener for health and signs of disease.

Most of the oaks will be planted to fill in gaps in the twin lines of trees that stretch the length of the mall.

Some existing oak trees that are diseased with oak anthracnose, which is caused by the fungus *apiognonia umbrinella*, will be removed and replaced with new plantings.

The Morris and Helen Belkin Art Gallery has received a Progressive Architecture Award for excellence in design.

The awards, considered by architects to be the most prestigious in their field, attracted more than 500 submissions from the U.S., Canada and Mexico. Only four awards and 15 citations were presented this year.

The gallery was made possible through a major gift by the Morris and Helen Belkin Foundation to UBC's A World of Opportunity fund-raising campaign and a matching grant from the provincial government.

Helen Belkin, a long-time friend of the university, has also made a personal gift, matched by the province, to establish the \$1.5 million Morris and Helen Belkin Art Gallery Operating Endowment.

Designed by the Vancouver firm Peter Cardew Architects, the building, located in front of the Frederic Wood Theatre, is scheduled for completion this year. The gallery will undertake a comprehensive program of exhibitions featuring contemporary artists.

## Profile



Registered speech-language pathologist Linda Rammage specializes in voice disorders.

Martin Dee photo

# An Active Voice

by Connie Filletti

Staff writer

If Linda Rammage is a voice crying in the wilderness, people are starting to listen.

Aerobics instructors, rock stars, preachers and cancer patients searching for vocal health are finding their way to Rammage who is director of the Provincial Voice Care Resource Program (PVCGRP).

Rammage established the program in 1993 to provide British Columbians suffering from voice problems with comprehensive, high-quality, community-based clinical services, and to increase the knowledge and skills of the professionals who treat them.

In setting up the program, Rammage, a registered speech-language pathologist specializing in voice disorders, formalized a role she had been playing for years.

"I spent a lot of time on the telephone talking to speech pathologists throughout B.C. about the voice problems they were encountering with patients. I even advised on equipment they should have in their clinics."

Because of the program's success, Rammage still spends a lot of time on the telephone and on B.C.'s highways.

Colleagues in areas stretching from the province's Northern Interior to the Sunshine Coast, as well as people across Canada, are seeking her advice on how to set up similar programs in their communities.

And although more than 500 clients a year pass through the

PVCGRP, Rammage admits that voice disorders are not universally recognized as a health concern.

"The medical profession has been slow to acknowledge that voice disorders are illnesses and can be occupationally crippling," she says.

Her own career as an amateur singer has made Rammage particularly interested in evaluating, classifying and treating voice disorders in individuals called occupational voice users.

"Most people who use their voices extensively in their occupations, including teachers, sales representatives and politicians, do not have any voice training to prepare them for a heavy and often difficult vocal demand on the job," Rammage said.

They may be particularly susceptible to problems like vocal fatigue, hoarseness and loss of or change in pitch range, she explained.

As a member of several church choirs and glee clubs while growing up in the Maritimes, and as a performer with Vancouver's Bach Choir during the 1980s, Rammage draws from her experience as a singer when treating clients.

The result has been the creation of a unique voice care team which includes

Bruce Pullan, artistic director of the Vancouver Academy of Music, psychiatrist Dr. Hamish Nichol, Dr. Murray Morrison, head of UBC's Division of Otolaryngology, and several theatre voice teachers.

Through the PVCGRP, the team offers a 10-week vocal rehabilitation program, in a group format, to occupational voice users experiencing vocal distress.

"We use a holistic approach in this program because we consider the voice's physical production as inseparable from its

functions in expressing thoughts and emotions," Rammage said.

Considerable attention is given to the participants' posture and alignment, not surprising when Rammage indicates that everything from the top of the legs is part of the speech machine.

"Half of the therapy training program is teaching people what realignment is, how to balance the head without fixing it on top of the neck and how to relax the face and jaw."

Among the other preventive techniques participants learn are avoiding straining their voices to be heard, yelling, screaming, and repressing emotion. Rammage believes the latter is as damaging to the vocal

cords as driving a car with the emergency brake engaged is to the brake pads.

The voice care team also devotes time to the client's physical and emotional health, recognizing that some voice problems such as hoarseness may warn of cancer of the vocal cords and larynx while speaking in a monotone or with a low pitch sound may signal depression.

Despite her full load as director of the PVCGRP, Rammage finds time to serve as a sessional lecturer in the Faculty of Medicine's School of Audiology and Speech Sciences, and as a research associate in the Division of Otolaryngology.

She recently collaborated with Morrison on *The Management of Voice Disorders*, a multidisciplinary textbook heralded as the most complete and up-to-date publication of its kind.

Rammage also continues to manage a harmonious blend of work and pleasure.

As a student at the University of Alberta, she was able to combine her undergraduate work with a tour of Europe as a member of the university's concert choir.

Today, Rammage and several friends perform early music for enjoyment as a singing group called Cantamus, the Latin word for singing.

Highly accomplished in a new area of medicine and the recipient of two graduate teaching awards, she does, ironically, have one regret.

"I dreamt of being a concert pianist."

**"The medical profession has been slow to acknowledge that voice disorders are illnesses and can be occupationally crippling."**

- Linda Rammage