# Senate rejects tougher rules for conflict of interest

By GAVIN WILSON

A move to tighten UBC's existing conflict of interest guidelines for university administrators has been voted down by Senate.

The motion, put forward by Senator Philip Resnick, a professor in the Dept. of Political Science, and supported by a number of student senators, aimed to place more restrictive guidelines on the type of outside appointments held by senior university administrators, such as the president, vice-presidents and deans.

Senators speaking against the motion at the Oct. 21 meeting said it was unfair, too restrictive and would interfere with the beneficial interplay between the university and outside organizations.

Many said they were satisfied with the existing conflict of interest policy, which was approved in September by Senate and the Board of Governors.

Resnick said his main concern was that the autonomy of the university is potentially threatened when senior administrators hold directorships on corporate boards.

"I feel this is a potentially danger-

ous practice," he said. "What kind of message does this transmit to our students, our researchers?"

Resnick's motion stated that administrators seeking corporate appointments should get the approval of the Board of Governors; that they should not accept positions which could be seen as jeopardizing the autonomy or integrity of their office; and that any payments for service be turned back to the university.

Current guidelines state that before accepting an outside appointment, administrators must consult with someone in a higher position, who will assess how it would affect the interests of the university.

Maria Klawe, head of the Computer Science Dept., said she "feels more comfortable" with the existing conflict of interest guidelines than with Resnick's resolution.

"I support the ideals you stand for," she told Senate, "but don't think this motion is the way to do it. At some point, I have to have faith in the people I work with and trust their judgement to make good decisions."



Chemistry graduate students Jennifer Au and Wing Fat Chan display the granite boulder that set back their research projects by several weeks when a vandal threw it at the high-tech instrument shown on the left.

# Vandal's well-aimed rock smashes high-tech laboratory instrument

By GAVIN WILSON

A boulder hurled through a window in the Chemistry Building caused an estimated \$30,000 to \$40,000 in damage when it struck a sensitive scientific instrument earlier this

Another incident on the same weekend caused about \$5,000 damage on the construction site of the

First Nations Longhouse, where a wooden column in the Great Hall was spray-painted and five windows smashed.

Chemistry Professor Chris Brion said the 14-kilogram boulder made a direct hit on his lab's electron-ion coincidence spectrometer, a device which provides detailed information about the interaction between radiation and atoms and molecules.

"We're still assessing the damage. Needless to say, we're very upset and angry," Brion said.

As well as the cost of repairing the high-tech device, the research projects of two post-doctoral and three graduate students will be delayed, he said.

The RCMP is investigating both incidents.

# Commerce tops Canada for fourth year in a row

By ABE HEFTER

For the fourth straight year, the Faculty of Commerce and Business Administration at UBC is ranked first among Canadian business schools in Social Science and Humanities Research Council (SSHRC) operating grants in the business administration and industrial relations categories.

Figures released following the March 1992 competition show the faculty on top with nine operating grants funded for a total of \$356,000.

The University of Western Ontario

was in second place with six operating grants totalling \$312,000.

The grants cover a three-year period, from 1992-95.

The study of the Japanese economy will be the focus of a pair of the SSHRC grants.

Professor William Ziemba will investigate land and stock prices in Japan, and investigate the effect of Japanese land price changes on the world

"Japanese land is the most valuable in the world," said Ziemba.

"The effect of a possible land price llapse in Japan on the Japanese world economies will be investigated as part of this study."

Another grant went to Assistant Professor John Ries, who will investigate Japanese foreign investment strategies in North America.

The results for Canada and the U.S. will be compared to see if there are systematic differences in Japanese foreign investment strategies towards the two countries.

In addition, Ziemba and Commerce Professor Ilan Vertinsky are working on an SSHRC strategic grant focusing on the global competitiveness and implications of Japanese business prac-

The principal investigator is Professor Masao Nakamura from the University of Alberta.

## Historian brings order to court donated books, about half the li-

Amicus curiae, loosely translated, means 'friend of the court.' But for the Supreme Court of Canada,

there's a tighter translation: DeLloyd Guth.

As a legal historian, Guth has an uncanny knack for finding his way around a courthouse. Court files, enrolments for court actions, individual case records; these are the bread and butter items he hunts, with relish.

So, when the UBC law school teacher ambled innocently into Canada's highest court six years ago, it was only natural that he made a beeline for the storage wing of the

impressive granite edifice.

"I strolled in, nobody asked any questions, I had the run of the place," he said. And it didn't take long before the prowling professor ran smack into an archivist's nightmare.

On two basement levels, chicken wire corralled a jumble of stacked books, working case files, judges'

correspondence and budget docu-

Beyond the chicken wire stretched

a chamber lined with 120 large filing



cabinets full of official case files, none

of them catalogued, dating back to

1922. Guth later learned that the earli-

est records from 1876 onwards had

long since been trucked over to the

nearby National Archives and irrever-

storage bunker included two floors of

Other highlights in the desiccating

ently shelved.

DeLloyd Guth - "Demystifying" the Supreme Court.

brary's 320,000-volume collection, and a walk-in safe jammed from floor to ceiling with the personal

files and books of former Chief Justice Bora Laskin.

Said Guth: "It was like topsy. The place was clearly in sham-

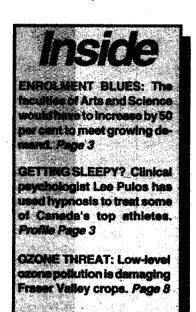
Today, the archaic court registry - with its thousands of paper motions, factums, and judgments - is now a model of computer efficiency.

All official case files from 1876 to 1976 (15,500 files totalling 3.8 million images) have been copied onto microfilm, a process Guth has en-

sured will be carried out each decade, as the caseload grows.

It was this eye-opening tour in 1986 that quickly landed Guth the title of consultant curator, a position he still holds under Chief Justice Antonio Lamer.

The professor took up the challenge See GUTH on Page 2





#### Letters to the Editor

# Where are the women?

Editor:

RE: UBC Reports, Volume 38, Number 13, September 3, 1992 Imagine yourself as a man having to read only women's papers.

That is how women feel, constantly being bombarded with information written by men about other men interspersed by pictures of men. (Forget the "token woman.")

And this is how I feel about UBC and about your paper in particular.

The reading is interesting to a point, but as a woman one gets bored and finally frustrated for

Can you blame me for withholding from my husband the UBC Library's request, or any other UBC Alumni request, for a money donation? (He studied at UBC.)

Ursula Litzcke 3235 West 8th Ave. Vancouver, B.C. V6K 2C6

# **Compu-porn pushes limits**

Editor:

I note from a write up in the September 8th "Campus Times" that it was under President Strangway's direction that the University Computing Services removed the so-called Compu-Porn. I want to express appreciation of this and congratulate him on what perhaps was not an easy

Our culture has set such a value on liberty and freedom, but has forgotten what they are. We have failed to realize that our freedoms are limited and there is a distinction between liberty and licence. An understanding of freedom as the right "to do your own thing" results not in democracy but in anarchy.

Rev. Alan Reynolds University Hill United Church



Author, Author!

 $\textbf{\textit{Ken Carty (left)} and \textit{Ian Slater were among more than 100 UBC authors honored Oct.}}$ 15 at the annual UBC Authors Reception, sponsored by President David Strangway and University Librarian Ruth Patrick. During the reception the library celebrated the acquisition of the university's 3,000,000th book.

#### REMEMBRANCE DAY CEREMONY

#### **NOVEMBER 11, 1992 - WAR MEMORIAL GYMNASIUM FOYER**

The University of British Columbia will hold the annual Remembrance Day service in the foyer of the War Memorial Gymnasium on Wednesday, November 11 commencing at 10:45 a.m. The address will be given by Dr. Sam Black, professor emeritus of Education and well-known artist. Chancellor Leslie R. Peterson will conduct an inspection of the troops beginning at 10:15 a.m. Refreshments will be served following the service and all members of the community are invited to attend both events.

# Research fund reflects a professor's passion

By ABE HEFTER

Richard Lee Armstrong's legacy lives on at UBC. The Geological Sciences professor died in August, 1991 at the pinnacle of his career as a world-renowned earth scientist. His passion, in the words of his former thesis supervisor, "was to understand the earth."

Armstrong pursued this goal at UBC from 1973 until his death. His work at UBC earned him election to the Royal Society of Canada in 1981, a Killam prize in 1986, and the Logan Medal of the Geological Association of Canada

Prior to his death, of cancer, Armstrong expressed his wish that an endowment fund be established to support graduate student research in the Dept. of Geological Sciences for students who were in financial need.

"The Richard Lee Armstrong Endowment Fund was established for this purpose," said Professor W.K. Fletcher, acting head of the department.

The fund was approved as part of the university's A World of Opportunity campaign, with fund-raising requests directed to the faculty and staff, as well as external contributors.

To date, about \$60,000 has been donated to the fund, which will be matched by the provincial government under its matching funds program.

The Richard Lee Armstrong Endowment Fund is just one of the projects university employees can contribute to as part of the campus fundraising campaign.

In addition to contributing to projects not yet fully funded, employees may also contribute to projects created by various campus units, said campaign chair Dennis Pavlich.

These initiatives include the Statistics Fund for Excellence within the Faculty of Science, the Library's Collection Enrichment Fund, as well as the Institute of Asian Research and the seminar series for sustainable development research in the Faculty of Graduate Studies.

All faculty and management and professional staff will receive pledge cards in the campus mail next month. For more information, please contact the Development Office at 822-8900.

# United Way campaign off to strong start: halfway to goal

UBC's United Way campaign got off to a roaring start earlier this month and is almost halfway to its \$280,000 goal.

The generosity, enthusiasm and receptive-

ness of UBC students, staff and employees has been remarkable up to this point," said campaign chair Nestor Korchinksy. "But we have to remember that while it may be a good start, it's a successful conclusion we're after."

The campaign has so far received about 700 pledges totalling about \$132,000 or 47 per cent of the target.

Korchinksy said events such as the salmon barbecue on the SUB patio, IRC's pancake breakfast, the President's Office car wash and Plant Operation's Oktoberfest party have helped generate interest in the United Way cause.

"The key will be to sustain that inter-

est," said Korchinsky, adding that student campaign organizers are gearing up for a United Way "Button Day" on Nov. 6.

Out of every dollar given to United Way, 97 cents goes to one or more of the 91 agencies and affiliates of the organization. People can also choose to designate their

money to non-member charities.

The campaign is scheduled to end Nov. 6.

# **Guth cleans up Supreme Court**

Continued from Page 1

at the request of Dickson who, after touring the storage area himself, concurred that something had to be done and that Guth was the person to do it.

Law Dean Peter Burns proudly granted Guth leave to embark for Ottawa where, for most of the following year, he labored in the jumbled storage wing sorting, dusting and cataloguing the court's history.

The end result of his year-long assignment was a comprehensive report outlining a strategy for managing the court records and archives. But the affable historian likes to think of his paper chase in simpler terms.

What it amounted to was my being a moderately-priced, academic cleanup man," he said. "It was really a lot of fun."

With the court's internal organs straightened away, Guth took time to start work on his second unsolicited project, that of raising the court's

He quietly founded the Supreme Court of Canada Historical Society, and for the last five years has put together displays for visitors in the court's lofty marble entrance.

In May and June of 1988, he drafted a report aimed at "demystifying" the court by, among other things, encouraging the preservation of judges' private papers.

Only about a dozen of the 75 judges who have served on the Supreme Court in Ottawa since 1875 have donated their files to public institutions. Most offer nothing more than collections of old banquet invitations. The remaining papers have either been forgotten or privately destroyed.

Despite Guth's determination to see the judges' private files preserved, he has had to tread lightly

Over lunch in the judges' private dining room in

November 1987, Guth gently made his pitch to each judge, swaying some, but not all. Many remain adamant in their belief that the court should be known only through its judgments and all else would simply detract from their authority.

Guth, however, argues that while the court's official case files may be comprehensive and upto-date, they are too formal to contain "the meat and potatoes" of a case.

"To get our hands on the judges' working case files will allow us to better understand the system," said Guth. "We'll see exactly how judgments are put together and what opinions and external sources went into the writing process."

Soon after his retirement in June 1990, Dickson asked Guth if he would oversee the organization of his private papers and files, a job which has kept him shuttling back and forth to Dickson's farm outside Ottawa.

There, hunkered above the garage or in the farmhouse basement, he and 'the chief' have been sorting through about 200 boxes of working case files, notes and memos saved over Dickson's 27-year judicial career.

The final phase of the cataloging process took place over Thanksgiving weekend with an end result that only one confidential medical document from the entire collection had to be destroyed.

As the world's first comprehensive collection focussing on the judging process, Guth hopes the Dickson papers will be the model other judges follow. To protect privacy, however, people will have to wait until 2012 before the papers are open to the public.

"Judges by tradition have been left to work in the shadows of their own secrecy," he said. "That they are publicly appointed and presiding in open court should be reason enough to let the light in, eventually."



# Demand up for spaces in Arts and Science

UBC received 50 per cent more applicants than it can accommodate in some first-year undergraduate programs, according to preliminary 1992-93 enrolment figures.

Registrar Richard Spencer says the situation facing the faculties of Arts and Science is typical of the enrolment pressures facing the university.

There were more than 6,000 applications for admission to first year Arts, addition, there were more than 5,000 applications for admission to first vear Science, which has a quota of 1,200 places.

The total number of students registered in first year Arts was 1531; in first year Science, 1212.

Enrolment pressure also forced up the grade point average (GPA) cutoff point needed for admission to these faculties. It went from 2.83 to 3.00 in first-year Arts, and from 2.72 to 3.17

More than 1,300 applicants for Arts had GPAs above the university minimum of 2.5, but below the minimum for Arts of 3.00. More than 1,000 Science applicants were above the university minimum, but below the minimum for Science of 3.17.

Spencer pointed out that about 50 per cent of students who are offered admission actually register, which means another 650 places would be

needed in first year Arts and another 500 would be needed in first year Science to accommodate all those who meet minimum requirements.

"To provide these spaces would require a 50 per cent expansion in Arts and Science," said Spencer. "The university has no current plans to expand these programs but has supported the provision of new spaces at university colleges.

"It is clear that more and more

applicants who would like to attend UBC and who meet our minimum requirements for admission will have to attend one of the other universities or university colleges."

Overall, the university received more than 16,000 applications for programs with enrolment quotas, an increase of nine per cent over last year.

Final enrollment figures will be reported at the November 18 meeting

# Nobel laureate goes unrecognized on way to UBC lecture

By GAVIN WILSON

With all the hoopla surrounding the announcement he had won the Nobel Prize in chemistry, Rudolph Marcus was looking forward to a quiet flight to Vancouver.

He needn't have worried. Although his photo appeared in newspapers that fellow passengers were reading, none of them, or the airline, paid him the slightest attention.

There was one fellow who looked at me kind of quizzically. But maybe it was because of my hat," Marcus

The Canadian-born theoretical chemist was on his way to UBC to deliver the Charles McDowell Lecture in the Dept. of Chemistry, an event booked months before the announcement of his award on Oct. 14.

A standing-room-only audience heard how the California Institute of

Technology professor developed his theories on electron-transfer reactions, or how electrons move in chemical

Marcus is determined to not let the award interfere with his work.

"People have told me that you can get enough invitiations to waste an entire year. I'm going to do my best not to let that happen. I need time to do what I enjoy most - and that's my research," he said

Marcus decided in high school in Montreal that he wanted to be a chemist, but he has more passion for his work now than he did as an "impetuous" young man.

"I work harder now than I did when I was younger," said the 69-year-old scientist. "I'm getting more involved and enjoying it more. There's so much

Trained as an experimental chemist at

McGill University, he first became interested in theoretical chemistry when doing post-doctoral work at the National Research Council in Ottawa.

But no one else in Canada was doing theoretical chemistry in Canada in 1949, and so Marcus moved to North Carolina for further post-doctoral study. He became a U.S. citizen nine years later only because it was impossible to maintain dual citizenship

His award, which comes with a cash prize of \$1.5 million, marks the fourth time this decade that a Canadian who went to the U.S. to pursue a career in science has won the Nobel

Marcus said he was "completely shocked" when he was first told he had been nominated for the Nobel in the mid-1970s. And although he knew that it was a possibility in the years

that followed, he was still shaking his head when it actually happened.

"There are so many people doing

good research out there," he said, "there is a certain element of chance to winning.'



Rudolph Marcus arrived at UBC to deliver a lecture just days after winning the 1992 Nobel Prize in chemistry.

# **Profile**

# The eyes have it: Pulos' work is mesmerizing

By CONNIE FILLETTI

The first thing you notice about Lee Pulos is his eyes. You might say they're hypnotiz-

Not surprising for one of the country's preeminent clinical psychologists who has used hypnosis for the past 25 years to explore the power of the subconscious mind.

Scores have taken his advice, including olympic athletes and professional sports teams who Pulos has guided through hypnotic techniques to help them enhance physical performance.

He has served as sports psychologist for Team Canada at the Commonwealth and Olympic Games, and his clients have included hockey superstar Wayne Gretzky and former Canadian bodybuilding champion Carla Tem-

A native of Calgary, Pulos majored in psychology at UCLA before earning a PhD in clinical psychology at the University of Denver. He is a past president of the Canadian Society of Clinical Hypnosis and currently serves as a clinical assistant professor in UBC's Dept. of Psychiatry.

Many know Pulos in his other life as one of the founders of the Old Spaghetti Factory restaurant chain.

"My goal is to help people attain a high level of wellness and to teach processes that will empower people in attaining life goals,"

"I call it the induction of conviction. The use of hypnotic scripts or mental software which create new beliefs and attitudes that can become self-fulfilling prophecies. Our reality is a reflection of core beliefs we carry with us from childhood."

In his most recent book, Beyond Hypnosis, he examines how hypnosis can awaken the subconscious mind — what he describes as a slumbering giant — to bring about positive



Lee Pulos shares a rare moment of purr-fect relaxation with his four-month-old Birman cat, Tsu-Kee. He says hypnosis is nothing more exotic than deep relaxation, which clears the mind, reduces stress and makes us more receptive to new ways of being.

One hypnotic process we experience every day, Pulos says in his book, is self-talk, a form of self-hypnotism.

He estimates that many of us experience selftalk at the rate of 150 to 350 words a minute, for a total of 50,000 thoughts a day.

Self-talk contributes to creating our mental software about various beliefs and attitudes we carry with us, Pulos says.

While most of it is innocuous, Pulos recommends that we take advantage of this phenomena to focus on positive thoughts which could result in personal achievement.

"We can learn to use the power of this self-talk consciously, and we can begin to reprogram our self-image, to literally remake our life," he writes in Beyond Hypnosis.

"We can become the creator of our destiny, and this power can benefit every aspect of our life, from healing to work performance to meaningful personal relationships."

In addition to helping athletes achieve peak performance, Pulos uses hypnosis to assist people with habit-control, sleep and appetite disturbances and pain management. And, he says, hypnosis is the treatment of choice in most kinds

One aspect of his work that he finds particularly intricate is hypnotizing witnesses to, and victims of, crime — a method of obtaining evidence which Pulos claims has an 80 per cent success rate.

He's confident that hypnosis is finally finding its place in both the clinical and public domains.

The B.C. Cancer Agency uses audio tapes,

with guided visualization techniques created by Pulos, as an adjunct tool to promote wellness in cancer patients.

They are part of a series of cassettes his company, Lifelong Learning Inc., produces to help people deal with issues ranging from dental anxiety to procrastination.

But Pulos warns that the motivation intent of a person has to match the expected outcome of the tape in order for it to work.

Pulos says that while only a percentage of the population can be hypnotized, we slip in and out of "mini trance" phenomena every

"It's a natural state of consciousness," he says. "A common example of it occuring is when you drive down the highway and are so absorbed in your thoughts that you miss your

People can resist hypnosis subconsciously because of a history of head injury and loss of consciousness, a bad experience with chemical anaesthesia or sexual abuse, so there can be subconscious blocks to hypnosis, Pulos

"Skepticism about hypnosis generally has to do with misunderstanding," he explains. "People think they're giving up control, but the subject really controls the process. The paradox is that you end up with more control."

He counters fears of losing awareness with the theory that you actually become hyper aware — an intense state of focusing which empowers you to mobilize feelings and im-

Pulos believes that the greatest resistance comes from scientific fundamentalists who don't believe in a higher state of consciousness or in the subconscious.

But, as he says, "discovering what you already know but don't know that you know it can, indeed, be a very en-trancing experi-

#### November 1 -November 14

#### **SUNDAY, NOV. 1**

# Sunday Concert Series - Music Of Resistance

Ancient Cultures. Angel Araos, Carlos Cortes, Carlos Galindo, Amulfo Garcia, Alberto San Martin, Ed Henderson. Museum of Anthropology Great Hall at 2:30pm. Free with Museum admission. Call 822-5087.

#### **MONDAY, NOV. 2**

#### Pharmacology/Therapeutics Seminar

Use Of Ganciclovir For Treatment Of Infants With Congenital Cytomegalovirus Infection. Dr. Anne Junker, Paediatrics, Shaughnessy Hospital. University Hospital G279 from 12-1pm. Call 822-6980.

#### **Astronomy Seminar**



Rosetta Stone Or Red Herring? The Life And Times Of The Compact Elliptical Galaxy M32. Tim Davidge, UBC/Gemini Project Canada. Geo-

physics/Astronomy 260 at 4pm. Coffee at 3:30pm. Call 822-2696/2267.

#### Mechanical Engineering Seminar

Experimental Thin Film Heat Transfer. Glenn Stefurak, PhD student. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6200/4350.

#### TUESDAY, NOV. 3

#### President's Speaker Series

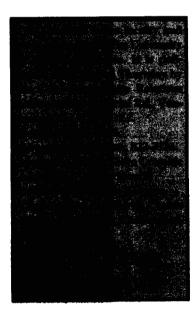
First Peoples 1992: A Long And Terrible Shadow. Wendy Grant, chief of the Musqueam Nation; Carol Geddes, filmmaker. Museum of Anthropology Great Hall at 7:30pm. Free with Museum admission. Call 822-5087.

#### **Botany Seminar**

Oxygen And The Regulation Of Nitrogen Fixation In Legumes. Dr. David Layzell, Queens U., Kingston, Ont. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

#### Lectures In Modern Chemistry

Organic Photochemical Reactions Via Carbanion Intermediates. Dr. Peter Wan, Chemistry, UVic. Chemistry South Block 250 at 1pm. Refreshments at 12:50pm. Call 822-3266.



#### CALENDAR DEADLINES

For events in the period November 15 to November 28, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Monday, November 2, to the Community Relations Office, Room 207, 6328 Memorial Rd., Old Administration Building. For more information call 822-3131. The next edition of UBC Reports will be published November 12. Notices exceeding 35 words may be edited. The number of items for each faculty or department will be limited to four per issue.

## Faculty Association Symposium

Political Correctness: Censorship Or Enlightenment. Speakers: TBA. Curtis 101/102 from 12:30-1:30pm. Coffee. Call 822-5684.

#### Statistics Workshop

Bayesian Estimation Procedures For Two-Way Hierarchical Model. Dr. Li Sun, Statistics. Angus 426 at 4pm. Refreshments. Call 822-3167/2234.

#### Occupational Hygiene Program Seminar Series

Dermal Exposure Assessment Techniques. Dr. Richard Fenske, assoc. prof., Environmental Health, U. of Washington. University Hospital Academic Pathology G226 at 4pm. Call 822-9595/2041

#### **Medical Genetics Seminar**

Unusual Structures Formed By Guanine-Rich DNA And RNA Molecules. Dr. Dipankar Sen, assist. prof., Chemistry, SFU. IRC#3 at 4:30pm. Refreshments at 4:15pm. Call 822-5312.

#### Rehabilitation Medicine Information Night

Information for admission to Physical Therapy/Occupational Therapy programs. IRC #2 from 7-9pm. Call 822-7392

#### WEDNESDAY, NOV. 4

# Wednesday Noon Hour Concert Series



John Rudolph/Graham Boyle, both percussion; Kathleen Rudolph, flute; David Brown, bass; Peter Berring, piano. Music Recital Hall Admission \$2. Call

at 12:30pm. 822-5574.

#### **Bookstore Lecture**

The Importance Of Surge Protection And The Introduction Of Triple Crown Warranty. Brian Foley. Bookstore at 12:30pm. Refreshments. Call 822-6699/5916.

#### Microbiology Seminar

Regulation Of Macrophage Phagocytic Receptor Function. Dr. David Speert, Paediatrics. Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

#### **Anatomy Seminar**

Physiological Mediators Of Psychosocial Stressor Effects On Mouse Mammary Tumour Growth. Gerald J. Rowse, Anatomy. Friedman 37 from 12:30-1:30pm. Call 822-2059.

# Applied Mathematics Colloquium

The Extraction Of Insect Flight Parameters From Vertical-Looking Radar Data. Dr. Douglas Gregory, Mathematics, U. of Manchester, U.K. Mathematics 203 at 3:45pm. Call 822-4584.

#### **Economics Seminar**

The Commitment Value Of Contracts Under Dynamic Renegotiation. Paul Beaudry, Economics, Boston U./UBC. Buchanan D225 from 4-5:30pm. Call 822-8216.

## Health Promotion Research Seminar



The Canadian Study On Health And Aging. Dr. B. Lynn Beattie, head, Geriatric Medicine, University Hospital. Scarfe 208 from 4-5:30pm. Call 822-2258.

#### **Ecology Seminar**

Ecology Of Arctic Foxes In Sweden. Anders Angerbjorn, Stockholm. Human Nutrition 60 at 4:30pm. Call 822-2387.

#### THURSDAY, NOV. 5

#### Distinguished Artists Series-An Die Musik

Andrew Daws, violin; Richard Brice, viola; Daniel Rothmuller, violoncello; Gerard Reuter, oboe; Constance Emmerich, piano. Music Recital Hall at 8pm. Adults \$14, students/seniors \$7. Call 822-5574.

# Pharmacology/Toxicology Seminar Series

Modulation Of Motor Function By Glycine-Related Analogs. Dr. Tsugio Kaneko, New Lead Research Laboratories, Kankyo Co., Ltd., Tokyo. Family/Nutritional Sciences 60 from 12-1pm. Call 822-2692.

# Geological Science Seminar Series

Peanut Butter Club. GeoSciences 330A at 12:30pm. Refreshments follow in the Grad Lounge (308). Call 822-2449.

#### **History Public Lecture**

Colonel Claus Schenk Count Von Stauffenberg, The 20 July 1944 Plot, And German Resistance To Hitler. Prof. Peter Hoffman, History, McGill U. Buchanan A102 from 12:30-1:30pm. Call Ted Hill at 822-5557.

#### Students For Forestry Awareness Speaker Series

Planning For Non-Timber Forest Resources: A Legal Perspective. Mark Haddock, assoc. counsel, Sierra Legal Defence Fund. MacMillan 166 from 12:30-1:30 pm. Call 222-1882.

#### Faculty Development Seminar

The Preparation Of Teaching Dossiers For Use In Tenure And Promotion Decisions. Judith Johnson, Audiology/Speech Sciences; William Webber, assocvice president academic, Medicine. Angus 417 from 3:30-5pm. Call 822-9149.

#### Physics Colloquium

X-Ray Experiments That Follow Rapid Structural Changes. Mark Sutton, McGill U. Hennings 201 at 4pm. Call 822-3953.

### CICSR Distinguished Lecture Series

Computer-Aided Design Of Electronic Systems: The Playground Of The Renaissance Man Of The 1990s. Dr. Alberto Sangiovanni-Vincentelli, Electrical Engineering/Computer Science, U. Of California, Berkeley. IRC #6 from 4-5:30pm. Call 822-6894.

#### FRIDAY, NOV. 6

#### Concert

University Chamber Singers. Cortland Hultberg, director. Music Recital Hall at 12:30pm/8pm. Admission free. Call 822-5574.

### Obstetrics/Gynaecology Grand Rounds

Cancelled. Call 875-3266.

## Fifth Annual Health Policy Conference

Toward A Better Understanding Of The Broader Determinants Of Heafth: Economic And Policy Implications. University Golf Club from 8:30am-4:45pm. Students \$35, others \$90. Space is limited. Lunch/refreshments. Call Barbara/Lebby at 822-4810.

#### **Paediatrics Grand Rounds**

Third World Children: At Home And As Immigrants. Dr. Philip E.S. Palmer, emeritus prof., Radiology, U. of California, Davis. G.F. Strong Auditorium at 9am. Call 875-2118.

# Pharmacology/Toxicology Seminar Series

Pharmacologic Antagonism Of Ischemic And Repertusion-Induced Myocardial Injury. Dr. Shawn Black, Pharmacology, U. of Michigan Medical School. Family/Nutritional Sciences 60 at 12:30pm. Call 822-2692.

#### Chemical Engineering Weekly Seminar

Incineration Of Industrial Organic Wastes In A Circulating Fluidized Bed Combustor. Polly Wong, graduate student, Chemical Engineering. ChemEngineering 206 at 3:30pm. Call 822-3238.

#### **Economics Seminar**

Gift Giving And The Evolution Of Cooperation. Lorne Carmichael, Economics, Queen's U. Buchanan D225 from 4-5:30pm. Call 822-8216.

# Centre For Korean Research Colloquium



Esthetic Features Of Korean Music: A Comparative Approach. Prof. Byongwon Lee, Ethnomusicology, U. of Hawaii. Asian Centre Au-

ditorium from 7-9pm. Call 822-6482.

#### SATURDAY, NOV. 7

Vancouver Institute Saturday

#### **Night Lecture**

Slide Lecture: Women In Medieval London. Dr. Caroline Barron, reader in Medieval History, U. of London. IRC #2 at 8:15pm. Call 822-3131.

#### Faculty Women's Club

75th Anniversary Dinner And Social. Faculty Club at 6:30pm. Reservations required. Call 222-1983.

#### **MONDAY, NOV. 9**

### Pharmacology/Therapeutics Seminar

Novel Concepts In Clinical Trials For Genital Herpes. Dr. Steve Sacks, Neurology, Medicine. University Hospital G279 from 12-1pm. Call 822-6980.

# Informational Meeting On Graduate Study

Graduate Education And Careers In International Affairs. Representatives from international universities. Buchanan A204 at 12:30pm. Call 822-5969.

#### Mechanical Engineering Seminar

Dynamic Measurement Of Ship Stability. Ercan Kose, PhD student. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6200/4350

# Biochemistry/Molecular Biology Discussion Group



Mechanisms of Protein Localization In P s e u d o m o n a s Aeruginosa. Dr. Steve Lory, Microbiology, U. of Washington, Seattle, WA.

IRC #4 from 3:45-5pm. Call Dr. Brett Finlay at 822-2210.

#### **Astronomy Seminar**

Interstellar Dust And PAHs. Alexander Tielens, NASA/Ames. Geophysics/Astronomy 260 at 4pm. Coffee at 3:30pm. Call 822-2696/2267.

#### **TUESDAY, NOV. 10**

# Vancouver Institute/External Affairs Canada Lecture

O.D. Skelton Memorial Lecture: Beyond Rio: What Role For Canada? Dr. Maurice Strong, former secretary-general, UNCED (United Nations' Conference on Environment/Development). IRC #2 at 5pm. Call 822-5675.

#### President's Speaker Series

First Peoples 1992: A Long And Terrible Shadow. Reverend Stanley McKay, Native Elders. Museum of Anthropology Great Hall at 7:30pm. Free with Museum admission. Call 822-5087.

#### **UBC Bookstore Demonstration**

Fabric Dying Demonstration. Jackie Haliburton, Angel Hand Painted Fashion. Bookstore at 12:30pm. Refreshments. Call 822-6699/5916.

### UBC Library Hands-On Tutorial

CPOL, The Canadian Politics And Current Affairs. Sedgewick Library Lower Level Arts Terminal Room from 12:30-1:30pm. For faculty/staff/students. Call 822-3096.

# UNIVERSITY OF BRITISH COLUMBIA



# DRAFT POLICY ON PURCHASING, OWNERSHIP AND DISPOSAL, AND CAMPUS MAILING SERVICES

# DRAFT FOR DISCUSSION

Rev. 92/10/20

Date of last Revision 1978 October 3 Policy # T.B.A.

# 1. SUBJECT: PURCHASING

The Purchasing Policy of the University of British Columbia applies to the acquisition of all goods and services from all sources of University funds, including the general operating budget, research funds, capital funds and other monies held in trust for special purposes.

# 2. RESPONSIBLE VICE PRESIDENT:

Administration and Finance, who has delegated responsibility for administration of this policy to the Director of Purchasing.

#### 3. PURPOSE:

The objectives of the University's Purchasing Policy are:

#### New 3.1

To ensure that the University's immediate and continuing requirements for materials, equipment and services are met at optimum value. Optimum value in purchasing is "the delivery of the right goods and/or services to the right place, at the right time and at the right price with minimum impact on the environment".

#### **Rev. 3.2**

To ensure that all purchasing activities are conducted with the highest level of integrity, in full compliance with the law, in conformity with the Purchasing Policy of the Government of British Columbia for all public institutions, and the relevant policies of the University. (e.g., Conflict of Interest Policy).

#### **Rev. 3.3**

To develop a qualified, dependable and competitive supply network of B.C. and Canadian vendors.

#### **New 3.4**

To support environmental issues that promote the reduction, re-use and recycling of materials and equipment, and reduce the use of materials toxic to the environment, including efforts to standardize on common supplies and equipment where possible.

#### New 3.5

To ensure that purchasing decisions benefit the University community by establishing major end-user advisory committees.

#### **New 3.6**

To facilitate communication and processing through the use of electronic data interfaces (E.D.I.).

# 4. POLICY: SUMMARY OF KEY POINTS:

For the convenience of members of faculty and staff, the most pertinent points are summarized below. The more detailed policy statements to which references are made, are to be found in the following pages. These, together with procedures, will be found in the Purchasing Handbook.

#### **New 4.1**

The University is under the obligation to pay Vendors for goods and services only where an existing contract or agreement is in force. The University Act outlines the powers of the Board of Governors. The Board in exercising these powers delegates to various officers of the University the authority to commit the University to binding agreements such as purchase orders, leases, contracts, and appointments. The delegations are documented by "Signing Resolutions" duly approved under a bylaw relating to the Signing Committee of the Board of Governors.

Note that persons other than those specified in the Signing Resolutions are not allowed to sign agreements, licences, contracts or leases that commit the University. Should they do so, they become personally liable for their actions, and do not enjoy any protection from the University's liability protection.

The delegated Signing Authority empowering the Purchasing Department to act is covered by Signing Resolution #9. Certain Purchasing functions have been delegated to specific operating functions in Appendix A.

#### 4.2

Procurement of goods and services for the University is the responsibility of the Director of Purchasing.

#### 4.3

All qualified and properly licensed B.C. and Canadian companies are to be given an opportunity to be considered as possible suppliers by the Director of Purchasing.

#### **Rev. 4.4**

Purchases of goods and services shall conform to the principle of competitive bidding wherever possible.

#### 4.

The Purchasing Department recognizes that in exceptional cases sole sourcing may be necessary. Justification in writing with Department Head support should be provided to the Director in advance of any purchasing decision.

#### New 4.6

All terms of contracts and conditions relating to Vendors are confidential and must not be disclosed to any third party

#### THE UNIVERSITY OF BRITISH COLUMBIA



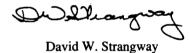
October 20, 1992

Dear Colleagues,

Consistent with our procedure for new policies, the following sets of policies relating to Purchasing; Ownership and Disposal of Equipment and Materials; and Campus Mailing Services, are submitted for the consideration of Faculty and Staff. Please direct your comments to Mr. Keith Bowler, Director, Purchasing.

- \* The PURCHASING policy is a revision of the 1978 October 03 version, with the following significant changes:
  - a) removal of Inter-provincial and International trade restrictions (see 4.3)
  - b) support of environmental issues (see 3.4)
  - c) commitment to input from end-user Advisory Committees (see 3.5)
  - d) removal of detailed procedures from policy, which are to be included in the Purchasing Handbook.
- \* The OWNERSHIP and DISPOSAL recommendations are updates of current policies, with our prime objective being to encourage recycling.
- \* CAMPUS MAILING SERVICES recommendations constitute a new policy outlining the basic services and responsibilities to be provided to all departments, and the additional services which will be available on a cost-recovery

Thank you for your comments and suggestions.



President

or competing Vendor.

#### **Rev. 4.7**

All things being equal (that is quality, price, delivery and suitability of product, service, environmental issues and method of billing) Canadian vendors will be given preference.

#### 4.8

Compliance with University-wide contracts and "preferred" vendors is essential to maintain effective negotiating capability and to be an ethical client.

#### 4.9

The Purchasing Department will maintain records of all contracts and orders according to legal statute for both audit and information retrieval purposes.

# 5. PROCEDURE SUMMARY:

# 5.1 AREA OF RESPONSIBILITY AND AUTHORITY

#### 5.1.1

The Director of Purchasing is respon-

sible to the Vice President Administration and Finance for the procurement of equipment, supplies and services necessary to maintain the facilities required for teaching, research, continuing studies and the administration of the University of British Columbia, except where the Board of Governors has delegated Signing Authority elsewhere. (Appendix A)

#### 5.1.2

With these exceptions, procurement for the University, whether from University funds or research and trust funds administered by the University shall be centralized in the Office of the Director of Purchasing.

#### Rev. 5.1.3

No other staff member, member of faculty or student is authorized to obligate the University for goods or services and may not sign any rental, lease, license or agreement with any vendor. The University is not obligated to pay for any such services or materials. Any individual signing such agreements etc., will be personally liable.

#### 5.1.4

The University as a trustee of public and private funds, and student fees, will procure equipment, supplies and services as efficiently, effectively, and economically as possible, to meet the needs

#### UNIVERSITY OF BRITISH COLUMBIA

# DRAFT POLICY ON PURCHASING, OWNERSHIP AND DISPOSAL, AND CAMPUS MAILING SERVICES



of the departments, faculties or other branches of the University's operations.

#### Rev. 5.1.5

The Director of Purchasing shall not contract with members of faculty or staff for the procurement of equipment, supplies or services (refer to Conflict of Interest Policy).

#### 5.1.6

The Purchasing Department will not acquire goods or services for personal use on behalf of faculty, staff or students.

#### **5.2 VENDOR SELECTION**

#### 5.2.1

The procedures for procurement of equipment, supplies and services are to comply with the B.C. Public Purchasing guidelines, using the competitive bidding process. All faculty and staff members who have decision-making authority or who are in a position to influence a decision about a purchase or contract. must disclose in writing any personal material interest in a prospective Vendor to the Director of Purchasing and withdraw from the decision-making process, if that is deemed appropriate. Apart from this restriction they may recommend a source of supply, but the final selection of the supplier shall rest with the Director of Purchasing.

# 5.3 ADHERENCE TO CONTRACTUAL OBLIGATIONS

#### 5.3.1

The Director is responsible for ensuring that the University lives up to its obligations, both in law and in spirit, with all vendors with whom it has contractual agreements.

#### New 5.3.2

Wherever possible the Purchasing department will develop University-wide contracts for common equipment, supplies and services and as far as practical, provide two equivalent preferred Vendors for each commodity. Alternate Vendors will be considered only when the preferred vendors cannot meet specific needs and upon prior approval from the Director. The University reserves the right to pay only vendors with whom it has duly signed written agreements. (Exceptions are for minor requests for "one time only" items under \$500.00 not available through blanket orders. Such items will be handled by the Requisition for Payment method.)

# 5.4 IMPORTS AND EXPORTS

#### 5.4.1

All imports and exports of supplies and equipment for the University must have the appropriate clearance documentation provided by the Purchasing Department's Customs and Transportation section. It is the responsibility of the Director of Purchasing, or his or her designate, to ensure that such documentation is available for import or export of any University property.

#### 5.4.2

The Purchasing Department maintains the service of a customs broker who deals directly on the University's behalf with the office of Canada Customs to prepare the required documentation for customs clearance, and to have the Power of Attorney for the University to pay any required taxes, duty, shipping and cartage charges, etc.

# 5.5 PERSONAL PROPERTY

#### 5.5.1

The University's address must not be used for the importing or exporting of personal property.

#### 5.6 RECEIVING

#### **Rev.** 5.6.1

End-users are responsible for the acceptance and checking, and the reporting of deficiencies to the Vendor of all supplies and equipment, and notifying Accounts Payable with the appropriate receiving reports as soon as possible after receipt. No receiving reports are required for orders under \$1000 or blanket order requests under \$1000 per unit item.

#### 5.6.2

Unresolved problems should be reported to the Buyer who placed the order.

#### 5.7 <u>DETAILED</u> <u>PROCEDURES, ETC.</u>

Detailed procedures will be found in the Material Resources Handbook, under Purchasing.

# DRAFT FOR DISCUSSION

#### **New Policy**

Rev. 92/10/20 Policy No. T.B.A.

# 1. SUBJECT: CAMPUS MAILING SERVICES

Campus Mailing Services (C.M.S.) provides sorting and delivery of all Canada Post incoming and internal mail for University business only (including all affiliated organizations approved by the President's Office), at no charge.

Additional optional services such as addressing, metering, inserting, on-campus courier, telex, and other related services will be provided on a cost-recovery basis.

# 2. RESPONSIBLE VICE PRESIDENT:

Administration and Finance, who has delegated responsibility for the admin-

istration of this policy to the Director of Purchasing.

#### 3. PURPOSE:

#### 3.1

To ensure that the University's written communications move efficiently to their destination whenever possible within one working day of receipt.

#### 3.2

To ensure that all users of the mail system assist by clearly addressing all mail as per instructions to follow, using both external and internal postal codes.

#### 3.3

To encourage cooperation in eliminating unnecessary or unsolicited mail.

#### 3.4

To encourage cooperation in reducing the amount of duplicate catalogues, journals, etc. wherever possible without impeding the academic mission of the University by circulating or sharing such information.

#### 3.5

To promote the efficient use of addressing, inserting and mailing services through the use of automated equipment.

#### 3.6

To promote centralized metering of outgoing University business mail in order to take advantage of negotiated bulk rates and reduce the amount of duplicate mailing equipment on campus.

#### 4. POLICY

#### 4.1

Campus Mail services are to be used for University of British Columbia related business.

#### 4.2

The basic service of sorting and the delivery of all Canada Post incoming and internal mail is available to all departments (including affiliated organizations approved by the President's Office) at no charge.

#### 4.3

Users of the mail services are responsible for the contents and adequate addressing of their outgoing mail. All outgoing mail must have a return address and conform to Canada Post regulations.

#### 4.4

Sorting and delivery priority will be given to First Class Canada Post mail and University institutional mail. The objective is to deliver this mail within one working day of receipt. At peak periods bulk mail, associations' mail, flyers, newsletters, etc., may be delayed.

#### 4.5

Optional addressing, inserting, metering and other related services, i.e., central telex and on-campus courier services, will be available on a cost recoverable basis.

#### 4.6

Campus Mailing Services will be responsible for managing courier and bulk

mail services.

#### 4.7

The Purchasing Department has sole responsibility for contracting with Canada Post and other Vendors for courier and bulk mail services on behalf of the University.

#### 4 8

Hazardous goods must conform to the Transportation of Dangerous Goods Act with documentation completed by legally qualified persons. (For further information, contact the Department of Occupational Health and Safety.)

# DRAFT FOR DISCUSSION

Rev. 92/10/20

Date of last Revision 1988 February 04 Policy No. T.B.A.

# 1. SUBJECT: DISPOSAL OF SURPLUS EQUIPMENT OR MATERIALS

The disposal policy of the University of British Columbia applies to the disposal of materials and equipment from all sources of University funds. This includes the general operating budget, research funds, capital funds and other monies held in trust for special purposes. The only exceptions occur when the funding agency has specifically stated that it retains ownership of any such equipment. (See Policy on Ownership T.B.A.).

# 2. RESPONSIBLE VICE PRESIDENT:

Administration & Finance, who has delegated responsibility for the administration of the policy to the Director of Purchasing.

#### 3. <u>PURPOSE:</u>

The objectives of the University's Disposal Policy are:

#### 3.<u>1</u>

To ensure that the University's assets are disposed of at fair market value.

#### 3.2

To ensure that all areas of the University have an equal opportunity to obtain surplus equipment or materials prior to final disposal.

#### 3.3

To ensure the original holders of the property are provided a credit for their assets.

#### 3.4

To reduce space tied up through storage of surplus equipment and materials throughout the University.

#### UNIVERSITY OF BRITISH COLUMBIA

#### DRAFT POLICY ON PURCHASING, OWNERSHIP AND DISPOSAL, AND CAMPUS MAILING SERVICES



To promote the recycling, reuse and refabrication of equipment.

To provide other educational institutions with an opportunity to obtain equipment no longer required by the University before sales to the public.

3.7

To ensure appropriate taxes and duty are collected and remitted.

#### **POLICY:**

No surplus University material or equipment will be removed from the campus without the authority of the Director of Purchasing. Disposal of all surplus or obsolete equipment and materials will be made through the Purchasing Department's Surplus Equipment Recycling Facility (S.E.R.F.) on the recommendation of the Administrative Head of the unit responsible. The disposer is responsible for ensuring that the material(s) are not contaminated or toxic. Such material(s) should first be referred to the Department of Occupational Health and Safety.

#### **PRACTICES**

The net proceeds of the sale, after

deduction of all applicable taxes, duty, and a fee to cover operating costs, (fee not to exceed 20%, or a minimum \$25.00 which shall be determined from time to time based upon inflation), will be credited to an account (normally that from which the material was originally purchased) specified by the Administrative

5.2

The disposal through S.E.R.F. of materials and equipment which have become available through construction or renovation of University property is authorized by the Director of Campus Planning and Development/or Plant Opera-

5.3

Primary emphasis will be given to recycling equipment and materials either through internal sales or the rental of equipment to University faculties and departments and affiliated programs. Secondary consideration will be given to disposal or sales to other educational institutions in B.C., and finally external private sales to faculty, staff and the public.

The Surplus Equipment Recycling Facility is expected to recover its operating costs. It is responsible for promotion, pickup of materials, collecting receipts and processing of required paperwork.

Detailed procedures will be found in the Material Resources Handbook, under Ownership and Disposal.

### DRAFT FOR DISCUSSION

Rev. 92/10/20

Date of Last Revision 1978 October 3 Policy No. T.B.A.

1. SUBJECT: **OWNERSHIP (INCLUDING** SALE OR DISPOSAL) OF **EQUIPMENT, GOODS AND SUPPLIES PURCHASED BY THE** UNIVERSITY

#### **RESPONSIBLE VICE** PRESIDENT:

Adminstration and Finance

#### 3. POLICY: OWNERSHIP

3.1

Equipment, goods and supplies purchased by The University of British Columbia for any purpose, from University funds which include research grants or other trust funds administered by the University, (including ancillaries), shall unless otherwise provided by the terms of the trust fund, remain the property of the University.

3.2

Such equipment, goods or supplies may be sold or otherwise disposed of only through the Office of the Director of Purchasing, in conformity with University Disposal Policy (T.B.A.).

Ownership or possession of equipment shall not be transferred from the University to another institution without the approval of the Head, Dean and the appropriate Vice-President (i.e., research equipment would be approved through V.P. Research). Notification of such transfers must be submitted to the Purchasing's Equipment Information Systems for recording purposes.

3.4

Detailed procedures will be found in the Material Resources Handbook, under Ownership and Disposal.

# Discovery will help astronomers bring cosmos into focus

By GAVIN WILSON

A UBC astrophysicist is the co-inventor of a powerful new tool that will help astronomers make more sense of the signals they collect from outer space and improve identification of distant objects such as pulsars.

Physics Professor Philip Gregory and Tom Loredo, of Cornell University's Astronomy Dept., have developed a new mathematical method of interpreting data.

"For certain problems, the new method is a major advance over existing techniques used in science for detecting periodic signals," said Gregory.

Although the motivation for their work comes from the field of astronomy, Gregory anticipates the method will have important applications in other fields of science, engineering and even economics.

"The new method is based on a very fundamental advance in our understanding of logic itself," said Gregory. "This revolution in thinking, which is percolating through the scientific community, goes by the name of Bayesian probability theory.'

For astronomers, the new method is a more powerful way of identifying the many objects in outer space that emit faint periodic signals amid the confusion of background cosmic noise.

The most spectacular example of these objects are pulsars, which are rapidly rotating neutron stars of enormous interest to astronomers.

Pulsars emit weak pulses of radio or X-rays with a regularity that rivals or exceeds the accuracy of the best earth-based clocks. They were first discovered by Cambridge University researchers in 1967, who at first believed the

signals could be from extraterrestrial life.

In their research, Gregory and Loredo considered a common situation in which a researcher has acquired some data, but does not know if a periodic signal is hidden in it.

Applying Bayesian probability theory to the problem, they devised a method for detecting the presence of a periodic signal and identifying its characteristics.

Bayesian probability theory had its origins in the 18th century, but it was not until 1957 that compelling conceptual and mathematical foundations of the theory were finally provided by American physicist E.T. Jaynes.

What makes the theory so powerful is that it provides a mathematical model of logic that

applies even in situations where, because of incomplete information, Aristotelian deductive logic is not applicable.

"Since virtually all problems in science — and in real life - involve incomplete information, the applications would seem universal," said Gregory. Bayesian probability theory is expected to have its greatest impact in artificial intelligence.

Gregory and Laredo's paper, entitled "A New Method for the Detection of a Periodic Signal of Unknown Shape and Period," will be published in the Oct. 10 issue of the Astrophysical Journal. It was also presented earlier this year at a meeting of the Canadian Astronomical Society and an international meeting of Bayesians in Paris.

# Co-ordinated approach sought for university records management

By ABE HEFTER

UBC has taken the first step towards planning a comprehensive records management program.

A records survey is being undertaken on the recommendation of the University Archives Advisory Committee. The committee, which consists of administrative officers and faculty members, has solicited input from representatives of the campus

"One of the most important resources available to the university is information generated or accumulated through its administrative, legal and fiscal activities," said University Archivist Chris Hives, who is overseeing the survey.

"However, in the past, there has been no co-ordination in the management of UBC's recorded information."

Hives said in the absence of general guidelines governing university records, hundreds of academic and administrative units have been forced to deal with their own records in isolation, with little understanding of what is happening elsewhere on campus.

This has given rise to numerous recordkeeping systems which usually result in too many, or, too few records being retained, he

"Invariably, valuable information is lost forever in periodic purges of old records, or valuable storage space is taken up with material of questionable value."

The survey is being undertaken to compile information on the more than 200 record-creating units on campus. The next step will be to develop a co-ordinated records management program which will provide campus-wide guidelines for the retention and disposal of university records.

"By implementing a records management program, we will be able to identify and preserve UBC's permanently valuable records and, at the same time, provide for the destruction of routine material at the earliest opportunity," said Hives.



T.C. Ho (right), vice-chairman of The Hang Seng Bank, explains the finer points of a coin to Lt.-Gov. David Lam (left), and Barrie Wiggham, acting chief secretary of Hong Kong. A portion of The Hang Seng Bank's Chinese coin collection, which consists of more than 5,000 pieces dating back about 3,600 years, is on display at the Asian Centre until Nov. 4 as part of Festival Hong Kong 92.

# Zoology professor nets gold medal with salmon research

By GAVIN WILSON

An adjunct professor in the Dept. of Zoology whose research has made significant contributions to the growth of aquaculture in Canada has won a gold medal in the natural sciences from the Science Council of B.C.

Ed Donaldson, a research scientist at the Dept. of Fisheries and Oceans' West Vancouver lab, received his award at the B.C. Science and Engineering awards dinner, Oct. 20.

Among his achievements, Donaldson and his research team have developed the biotechnology needed to produce all female chinook salmon, which, because they mature earlier, command a higher market price.

"This work has had great economic impact," said William Hoar, Zoology professor emeritus and Donaldson's principal nominator.

Donaldson, who received his PhD from UBC in 1964, has also shown how to understand and reduce the stress caused by overcrowding and handling fish in hatcheries and fish farms.

The Science Council is now seeking suggestions for future winners of Science and Engineering awards.

Gold medals are awarded for

# health sciences, industrial innovation, natural sciences, or engineering and applied sciences. As well, the following trophies are awarded: the Cecil Green Award for Entrepreneurial Science, the Science Council Chairman's Award for Career Achievement and the Eve Savory Award for Science Communication. Nominations for the 1993 B.C.

outstanding work in the categories of

Nominations for the 1993 B.C. Science and Engineering Awards should be sent to the Communications Dept., Science Council of B.C., Suite 800, 4710 Kingsway, Burnaby, B.C., V5H 4M2. Nominations close March 31, 1993.

#### **WINNING FISH**

Research scientist Ed Donaldson's work has helped make B.C.'s salmon farming industry a success. Donaldson received a Science Council of B.C. gold medal for his research.



# Perry receives advice on student financial aid

By GAVIN WILSON

An independent report on financial barriers to post-secondary education has made 173 recommendations to Tom Perry, Minister of Advanced Education, Training and Technology.

Perry released the Orum Student Financial Assistant Report on Oct. 16. Among its recommendations:

- abolish student loans in favor of grants to students needing financial assistance
- establish more flexible repayment schedules for existing student loans
- revise the weekly ceiling on

  B.C. student assistance to reflect the
  national urban poverty line
  - deregulate tuition fees
- establish a B.C. government lending agency to handle student loans
- make financial assistance more readily available to people with disabilities and First Nations institutes and students

"Many of the most difficult and pressing issues raised by the report are a direct result of increased offloading of costs of post-secondary education by the federal government to the province." Persussid "This is further compounded by the fiscal constraints facing the B.C. government."

As he released the report, Perry announced that he was striking a task force which would give its recommendations further study.

"There is much in the report that is worthy of closer study. For this reason, a government task group is being established to undertake a thorough and comprehensive review of the report's recommendations," Perry said.

The task group, composed of representatives of government ministries and agencies responsible for student assistance initiatives, will report to Perry in January, so that changes can be made for the 1993/94 academic year, he said.

The report was prepared by a committee chaired by Jennifer Orum, co-ordinator of financial aid and awards at the B.C. Institute of Technology. Its members included students and university and college faculty and staff, as well as representatives from the aboriginal community and the public.

A copy of the Orum report is available in the government publications division of the UBC library.

# Student employment centre opens

ment service on campus."

By CONNIE FILLETTI

UBC has established a permanent student employment centre on campus, replacing the Canada Employment Centre established at UBC in

"The university feels a strong commitment to provide a' service unit whose responsibility is to facilitate career

placement and job opportunities for our students," said Evelyn Buriak, manager of UBC Student Placement Services.

In the spring of 1991, the federal government announced its intention to eliminate funding for job placement services at Canadian campuses.

The university reached a threeyear bridging agreement with Ottawa, and student placement services have been offered on an interim basis by the Student Counselling and Resources Centre since September, 1991.

An ad hoc committee chaired by

"The university has urgently been looking into

the possibility of establishing a permanent place-

K.D. Srivastava, vice-president,

struck at that time to consider the

options for permanent delivery of

looking into the possibility of

placement and recruiting services at

establishing a permanent placement

service on campus," said Buriak. "It

"The university has urgently been

Student and Academic Services, was

students and employers."

In addition to its recruiting program, the office lists a variety of job opportunities for both on- and off-campus employment. It also posts

openings for UBC's work study program and for student positions in the libraries.

"The unit is working to improve and expand services to students, faculties and employ-

ers," she said.

"An advisory committee composed of faculty, students and the private sector business community has been established to provide ongoing consultation and communication regarding employment and placement issues affecting UBC students."

Input from the campus community is welcome. For more information, call 822-4011.

# to the province," Perry said. "This is tions division of the UBC library. Ottawa, and student placement is an important service to UBC call 822-4011. Scientists to gauge ozone threat to Fraser Valley crops

By GAVIN WILSON

Researchers at UBC and Agriculture Canada's Agassiz Research Station are setting out to discover the extent to which Fraser Valley agricultural crops are being damaged by low-level ozone pollution.

The five-year study will be the most conclusive ever made of a problem that threatens the \$400-million Fraser Valley agriculture industry.

The study is being conducted by Victor Runeckles, a professor in the Dept. of Plant Science, and Pat Bowen, vegetable physiologist at the Agassiz Research Station.

Earlier studies by Runeckles showed that ozone levels are high enough in certain sections of the valley to decrease crop yields by as much as 10 to 15 per cent, but the results were preliminary.

"It's difficult to say how much damage is being done," said Runeckles. "The situation is not as extreme as in Southern California, where certain crops simply can't be grown because of ozone. But pollution levels experienced in the Fraser Valley in recent years would translate into significant losses for some crops."

Runeckles and Bowen's new study will go a long way towards determining the economic damage caused by ozone pollution, which also affects human health, building materials and non-agricultural vegetation.

The study will play a key role in the formulation of air quality policy for authorities such as the Greater Vancouver Regional District and the provincial Ministry of the Environment. It will also provide essential data for use in the development of air quality standards.

The \$475,000 study, funded under Canada's Green Plan, is being conducted under the auspices of the Agriculture Canada research station at Agassiz, where Runeckles is an adjunct research scientist.

Ozone is created by a chemical reaction that occurs when automobile emissions or industrial pollution containing nitrogen dioxide and

hydrocarbons are irradiated by the ultraviolet rays of the sun.

Although most of these precursors of ozone originate in Greater Vancouver, the prevailing westerly winds, combined with the funnel shape of the mountain-ringed Fraser Valley, lead to ozone formation over rural areas.

At low levels of concentration, ozone has physiological and biochemical effects that reduce yields, retard plant growth and slow the process of photosynthesis. Crops in which the fruit or seeds of a plant are harvested are particularly susceptible.

At higher levels, ozone can produce visible signs of damage, such as distinctive white spots on leaves that indicate irreversible cell damage.

While ozone damage has been widely studied, especially in smogplagued Southern California, its severity varies from crop to crop, even variety to variety. Californian and other studies therefore have limited application to the Fraser Valley.

"We don't know what the impact is on the locally grown crops. This

study will fill in the gap," said Runeckles and Bowen.

They also question the methods used in many previous studies, in which plants were grown in chambers that had ozone pumped into them as part of the air mix.

Because the chambers themselves affect plant growth, the results obtained do not provide an accurate indicator of the magnitude of the impact of ozone on plants growing in the open air.

The Runeckles and Bowen study involves eight 100-square-metre plots. Located on the UBC campus, the plots will be planted with a range of crops important in the Fraser Valley. A system of perforated pipes suspended overhead will expel ozone in varying amounts to each plot.

Because the system essentially blankets each plot with a different ozone concentration, it has been called the Zonal Air Pollution System (ZAPS). The different ozone levels are achieved by having different numbers of perforations in the pipes.

The amount of ozone expelled will be determined by the level of ozone in the ambient air. This will ensure that the levels have the typical daily fluctuations that are the result of environmental factors, especially sunlight intensity.

The levels over the different plots will cover the range of concentrations observed in the valley in past years.

Construction and testing of the ZAPS will be completed in time for the first field experiments to start in 1993. The campus is an ideal location for the system because it is upwind of the city, with typically low levels of ozone pollution.

In addition to the campus studies, bio-monitor plants — in this case, a variety of tobacco plants especially responsive to the presence of ozone — will be placed in several locations throughout the Fraser Valley.

Injury to the biomonitor plants will provide additional information about the potential for crop damage in the valley and its year-to-year variation.

#### November 1 -November 14

# Centre For Research In Women's Studies Lecture Series

Bodily Harm: Representations Of Violence By Canadian Women Writers. Prof. Sherrill Grace, English. Family/ Nutritional Sciences 50 at 12:30pm. Call 822-9171.

#### **Botany Seminar**

Homothallism In The Sordariaceae: Mating-Type Genes Of Neurospora Terricola. Nick Beatty, MSc candidate, Botany. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

#### **Lectures In Modern Chemistry**

The Solid Polymer Fuel Cell—Its Implications And Its Chemistry. Dr. Keith Prater, Ballard Research, North Vancouver. Chemistry South Block 250 at 1pm. Refreshments at 12:50pm. Call 822-3266.

#### French Talk (In English)

Rien Que Ton Costume, On Te Met A La Porte: The Importance Of Being Fashionable (On 19th Century French Literature). Prof. Sima Godfrey, French. Buchanan Tower 799 at 2pm. Call 822-4025.

#### **Statistics Workshop**

Hospital Admissions And Air Pollution In Ontario: An Analysis of Parallel Time Series Of Administrative Count Data. Dr. R. Burnett, Health Protection Branch, Health/Welfare Canada. Angus 426 at 4pm. Refreshments. Call 822-3167/ 2234.

#### **Economics Seminar**

Discrimination, Segregation And Wage. Differentials Between Ethnic Groups: Evidence From Israel. Shoshana Neuman, Economics, Bar-Ilan U./UBC. Buchanan D225 from 4-5:30pm. Call 822-8216.

#### WEDNESDAY, NOV. 11

# UBC Annual Remembrance Day Ceremony



War Memorial Gymnasium Foyer at 10:45am. The address will be given by Dr. Sam Black, prof. emeritus of Education. Chancellor Leslie R. Peterson

will conduct an inspection of the troops beginning at 10:15am.

#### THURSDAY, NOV. 12

#### Concert

UBC Symphony Orchestra. Jesse Read, conductor; Ellen Heinicke, harp soloist. Old Auditorium at 12:30pm. Admission free. Call 822-3113.

#### J. Willox Duncan Lectureship

Preaching In A Cross-Cultural Context. Dr. Robert C. Berry, general secretary, of the Canadian Baptist International Ministries. Regent College Main Floor Auditorium from 11am-12pm. Call 224-3245.

### Pharmacology/Toxicology Seminar Series

Dietary Modulations Of Xenobiotic Metabolism, Toxicity And Carcinogenesis. Prof. Chung S. Yang, assoc. chair, College of Pharmacy, Rutgers State U., New Jersey. Family/Nutritional Sciences 60 from 12-1pm. Call 822-2692.

## UBC Library Hands-On Tutorial



PSYCINFO, Psychological Abstracts. Sedgewick Library Lower Level Arts Terminal Room from 12:30-1:30pm. For faculty/staff/ students. Call 822-3096.

# Geological Science Seminar Series

Where Terranes Collide: How The Cordillera Was Made. Chris Yorath, Pacific GeoScience Centre. GeoSciences 330A at 12:30pm. Refreshments follow in the Grad Lounge (308). Call 822-2449.

#### Students For Forestry Awareness Speaker Series

Administrative Fairness: A Need for Integrity In the Ministry Of Forests. Bob Nixon, editor, Forest Planning Canada. MacMillan 166 from 12:30-1:30pm. Call 222-1882.

### UBC International Forum Seminar

The Next Steps Beyond Rio. Dr. John Bell, head of the Canadian Delegation to United Nations Conference on Environment/Development, Rio de Janiero, 1992. IRC #3 from 12:30-2:30pm. Call 822-4401.

#### **Biostatistics Workshop**

On The Use Of Cluster Specific Models In The Assessment of Environmental Hazards On Human Health. Dr. R. Burnett, head, Biometry Section, Health Protection Branch, Health/Welfare Canada. Angus 426 at 4pm. Refreshments. Call 822-3167/2234.

#### **Immunology Seminar Series**

Cytokine Receptors: Regulation And Function. Dr. Steve Zeigler, Immunex, Seattle. Biomed Research Centre Seminar Room at 4pm. Call 822-3308.

#### **Physics Colloquium**

Novel Properties Of Intercalcated Layered Solids. Stuart Solin, NEC Labs, Princeton. Hennings 201 at 4pm. Call 822-3853.

#### FRIDAY, NOV. 13

### Obstetrics/Gynaecology Grand Rounds

Results Of Canadian Collaborative Trial Relating To Prolonged Pregnancy. Dr. Duncan Farquharson. University Hospital Shaughnessy Site D308 at 8am. Call Cherri Buckler at 875-3266.

## Health Care/Epidemiology Grand Rounds

Breast Implants: Risks And Benefits Research For The Canadian Task Force On Periodic Examination. Dr. Brenda Morrison, assoc. prof., Health Care/Epidemiology. James Mather 253 from 9-10am. Call 822-2772.

# Medieval Workshop Lecture In History

Legal Records And The Child In Late-Medieval London. Dr. Caroline M. Barron, Royal Holloway/Bedford New College, U. of London. Curtis Moot Court Room at 10:15am. Call 822-4237.

#### **Planning Lecture Series**

The Urban Landscape: The Ukraine,

Borneo And Vancouver. Clive Justice, planner/landscape architect. Lasserre 205 at 12:30pm. Call 822-3276.

### Centre For Korean Research Colloquium

Sweet And Bitter Lessons of Korean Development. Prof. Bom Mo Chung, Han-Lym U., Korea. Asian Centre Auditorium from 12:30-2pm. Refreshments follow. Call 822-6482.

#### Chemical Engineering Weekly Seminar

Deposition Of Fine Particles From Turbulent Flows. Charley Chen, graduate student, Chemical Engineering. ChemEngineering 206 at 3:30pm. Call 822-3238.

#### French Lecture

Language Acquisition: Theory/Practice. Prof. Catherine Snow, dean, Graduate Studies in Education, Harvard. Scarfe 100 at 3:30pm. Call 822-2879.

#### SATURDAY, NOV. 14

## Vancouver Institute Saturday Night Lecture



Excavations At Ashkelon: In The Footsteps Of The Philistines. Prof. Lawrence E. Stager, director, The Semitic Museum, Harvard U. IRC #2 at 8:15pm. Call

#### 822-3131.

#### NOTICES

#### **Development Office Forum**

Forum On Gender And Justice. Lynn Smith, dean of Law; Susan Boyd, visiting incumbent of UBC's chair in Women and Law. Waterfront Centre Hotel MacKenzie Room Tues. Dec. 1 from 5:30-8:30pm. Light buffet supper; tickets available now for \$50. Call 822-9490.

#### Rummage/Bake/Book Sale

Books by the following authors, Linda Svendsen, George McWhirter, Sue Ann Alderson and others, will be on sale or auctioned Nov. 3-4 from 12-1:30pm at Buchanan E462. Proceeds in support of the United Way. Call 822-2712.

# UBC Library Hands-On Tutorial

Learn to find citations to articles and documents on Education by using UBCLIB. Nov.3/5 from 12:30-1:30pm at Sedgewick Library Lower Level Arts Terminal Room. For faculty/staff/students. Call 822-3096.

#### Festival Hong Kong 92

Hang Seng Bank coin exhibit through Nov. 4. Asian Centre Auditorium daily from 10am-4:30pm. Call 822-4685.

#### **Child Studies Research**

Is your baby between 2 and 22 months? Join UBC's Child Studies Research Team for lots of fun. Call Dr. Baldwin at 822-8231.

# Call For Comments On Women Student Services

Task Force On The Provision Of Counselling And Related Services For Women

Students invite students/faculty/staff to submit comments about their experiences/ perceptions of women's services on campus to Chair Dean Nancy Sheehan, Education, by Monday, November 2. Call 822-6239.

#### **UBC Speakers Bureau**

Would your group like to know more about topics ranging from genetic modelling: the new science to computers-of-the-future? Choose from more than 400 topics. Call 822-6167 (24 hr. ans. machine).

#### **Executive Programmes**

Business Seminars. Nov. 9-10: Custodial Staffing and Standards, \$825; Management Skills for Maintenance Supervisors, \$895. Call 822-8400.

#### Language Conference

Teaching Languages For The 21st Century. Scarfe 100 Nov. 13-14 from 9:30 am-5pm. For details of workshops and presentations including visit of Prof. Jean-Louis Malandin call 822-2879.

#### Fifth Annual BC Pacific Rim Language Teachers Conference

SUB Nov. 12-13 from 8:30am-5pm. Call 222-5227.

# Professional Development For Language Teachers

Four-part Saturday morning series on Managing the Language Classroom and evening workshops including Teaching in the Pacific Rim, continuing through Nov. 24; Using Educational Field Trips, Nov. 3; Improvisation in the Language Class, Nov. 17/24. Call 222-5208.

# Humanities/Film Studies Workshops



Adventures In Consciousness. Dr. Lee Pulos, clinical psychologist, former president of the Canadian Society of Clinical Hypnosis. Psychiatric Unit Thea-

tre Nov. 6-8: Fri. from 7:30-10:30pm, Sat. from 9am-6pm, Sun. from 9am-4pm. Fee \$225. Call 222-5261.

Making Great Scripts And Great Characters. Dr. Linda Seger, script consultant. Carr Hall Conference Room Nov. 7-8 from 9:30am-4:30pm. Fee \$225 includes lunch. Call 822-5261.

#### Fine Arts Gallery

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

# Volunteer Opportunity University Hospital

UBC Site invites friendly help to join the Volunteer Services group to staff the gift shop, visit patients and participate in other programs. Call Dianne at 822-7384.

#### Sexual Harassment Office

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

# Surplus Equipment Recycling Facility (SERF)

Disposal of all surplus items. Currently offering misc. fall specials. Every Wednesday, 12-5pm. Task Force Bldg., 2352

Health Sciences Mall. Call Rich at 822-2813/2582

#### Friends of Bill W.

The Village Group meets every Thursday from 12:30-1:30pm in the Lutheran Centre. Call 822-4872.

### Clinical Research Support Group

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

#### **Psychiatry Research Studies**

Medication Treatment For People With Depression. Call Annie Kuan/Dr. R. A. Remick at 822-7321.

Medication Treatment For People With Winter Depression. Call Arvinder Grewal/ Dr. R. Lam at 822-7321.

#### **Behaviour Study**

Do you check or clean too much? Psychology is looking for people who repeatedly check (e.g. locks, stoves) or clean excessively to participate in a study. Call 822-7154/9028.

#### **High Blood Pressure Clinic**

Adult volunteers needed to participate in drug treatment studies. Call Dr. J. Wright in Medicine at 822-7134 or RN Marion Barker at 822-7192.

#### **Drug Research Study**

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

#### Heart/Lung Response Study

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

#### Memory Study

Interested participants ages 18-75 invited to test as part of a study on self-rated and objective memory testing. Call Dina, Psychology, University Hospital, UBC Site at 822-7883

#### Jock Itch Study



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

# Pacific Spirit Regional Park Programs

Autumn program brochures are now available for all-ages as well as children's recreational/nature-study outings. Pick up from the Park Centre at 16th, west of Blanca or the GVRD main office in Burnaby. Call 432-6350.

#### Nitobe Memorial Garden Restoration

The long-awaited opportunity to restore the Nitobe Garden to its original character will begin Nov. 1-Mar. 31/93. During this period, the garden will be closed to the public. Call 822-8228.

# Language lab shines in Ritsumeikan-UBC basement

By CHARLES KER

Yu Suzuki leans over and begins speaking Japanese to classmate Akihiro Sugano but quickly switches to English when instructor Bill McMichael intervenes.

"They're usually pretty good about sticking to English," said McMichael, head teacher for the UBC-Ritsumeikan Academic Exchange. "Sometimes they just can't wait to get the words out."

According to McMichael, much of this enthusiasm stems from the stateof-the art language laboratory hidden in the basement of Ritsumeikan-UBC House on West Mall

A dedication ceremony was held earlier this month celebrating the opening of the residence housing 200 UBC and Ritsumeikan University students.

At the event, Yasuhide Hayashi, consul general of Japan, urged the Ritsumeikan students to pay equal attention to English language studies as they do their other academic courses.

McMichael believes the multimedia language laboratory, with the

variety of learning options it offers, can't help but rivet the attention of his students.

The lab, widely regarded as one of the leading multi-media operations in Canada, consists of five student learning stations each equipped with lightweight headsets and microphones, four Macintosh computers, four audio cassette decks, two VCR machines and two video monitors, all interconnected with a master control panel in an instructor's booth.

Using what's called a 'file server,' the instructor can send separate programs to each station involving one or more of the available computer, video and audio options.

Students Suzuki and Sugano watched and listened to a news broadcast which they later summarized in a written report.

Meanwhile, students at neighboring stations were either transcribing audio tapes on the national referendum issue, learning computer graphics, practising their grammar skills or answering a fictitious letter from home on their screens.

"It's all presented in such a com-

sible not to be interested," said McMichael.

His thoughts are echoed by John Megrian who is setting up a similar laboratory for the Faculty of Arts in the Buchanan B building.

Megrian's lab features six, semicircular workstations with space for four students at each. The lab's modern open-concept is in stark contrast to the regimented rows of 112 listening booths found in the existing language laboratory directly across the hall.

"It's a much friendlier environment, giving the students more opportunity to interact among themselves and with the teacher," said Megrian, who hopes to eventually convert the adjacent audio-only lab into a multimedia centre for second language acquisition.

Back at Ritsumeikan-UBC House, McMichael is hoping to get his system hooked up to Internet, so students can exchange electronic mail with Canadian students in northern B.C. and the Interior.

Now in its second year of opera-

A Ritsumeikan student takes advantage of video and audio technology in the state-of-the-art language laboratory in the basement of Ritsumeikan-UBC House.

tion, the instructional program is coordinated by Associate Professor Richard Berwick in the Dept. of Language Education. It consists of three components: a language education course, other academic work in the Faculty of Arts and related field work.

Courses in cross-cultural and Pacific Rim studies are being jointly taught and developed in English by UBC and Ritsumeikan faculty.

Ritsumeikan students are scheduled to take a Test of English as a foreign language (TOEFL) test at the end of first term and those meeting UBC requirements will become eligible to take additional courses in other faculties.

#### Health fair takes holistic approach

By CONNIE FILLETTI

A holistic approach to wellness is the theme of this year's Health Wellness Fair at UBC.

"We hope this approach, which encompasses physical, mental, and spiritual health, will alert students to the services on campus that can help them achieve their optimal level of wellness," explained fair organizer Margaret Johnston, UBC's student health outreach nurse.

The fair takes place Nov. 2 to 4 in SUB's main concourse between 11:30 a.m. and 2:30 p.m. daily.

Exhibits will include information on a wide range of subjects such as nutrition, safer sex, and stress.

In addition, fitness testing, massage techniques and first aid demonstrations will offer an interactive forum for learning, Johnston said.

"Students want factual, current health information," said Mark Yee, a fourth-year Physical Education student who attends the fair each year, and who is this year's fitness testing co-ordinator.

"We also need to know where to go on campus for help with any kind of problem that may arise. This

into a cup of sugar-free ice cream, a new product under development in UBC's Dept. of Food Science. The ice cream is sweetened with cheese whey. Serving up the treat is research technician Elizabeth Cross. Barlee was on campus Oct. 19 to meet with UBC officials and familiarize himself with teaching and research in the Faculty of

# **Board okays** main campus master plan

The master plan for the main campus is a step closer to comple-

The third draft of the plan, which establishes guidelines for the future development of the campus core, was recently ratified by the Board of Governors

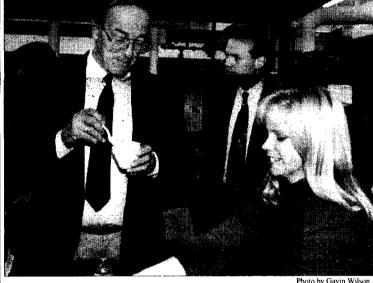
The board asked Campus Planning and Development for two amendments: the addition of a detailed public process to follow for further project development, and to delay construction of a new road near the Museum of Anthropology.

University Planner Andrew Brown said the final draft of the plan, incorporating the amendments. will be ready by the end of Novemevent plays an important role in the overall education of UBC students."

Campus units participating in the event are the Student Counselling and Resources Centre, the Women Students' Office, International

House, Intramurals and the UBC Chaplains.

The Health Wellness Fair is open to all members of the campus community. For more information, call 822-4858.



Bill Barlee, B.C. minister of Agriculture, Fisheries and Food, digs Agricultural Sciences.



Friends of Chamber Music presents the:

# Lindsay String Quartet

performing: Haydn, Op. 20/2; Tippet #5 (newly commissioned); Beethoven Op. 59/2.

Tuesday, November 3, 1992, 8:00 PM.

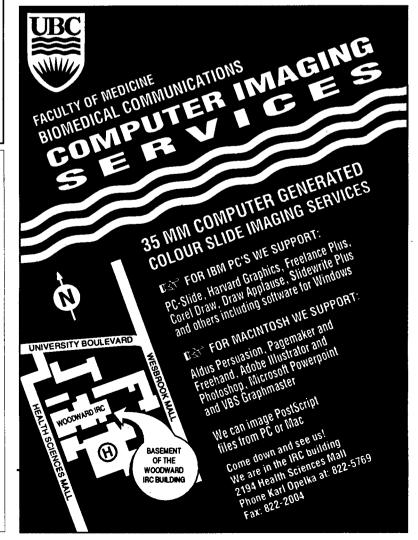
# Borodin String Quartet

performing: Borodin #2; Shostakovich #7; Schubert Op. 29. Tuesday, November 10, 1992, 8:00 PM.

Both concerts at the Vancouver Playhouse.

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

Programmes subject to change.



# People

# Salcudean's work recognized by University of Ottawa

The head of UBC's Dept. of Mechanical Engineering, Martha Salcudean, has received an honorary doctorate from the University of

Salcudean was honored for her exceptional career as a researcher and supporter of graduate studies.

After arriving in Canada from her native Romania in 1976, Salcudean joined the University of Ottawa as a sessional lecturer

in the Dept. of Mechanical Engineering, becoming a full professor in 1981. She accepted her current position at UBC in 1985.

Among her achievements is a gold medal in the applied sciences from the Science Council of B.C. In June, she was named a fellow of the Canadian Engineering Academy.

Salcudean was presented with her honorary degree at the University of Ottawa's fall convocation, held Oct. 18.

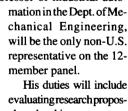
Charles Siegel, associate professor in the Dept. of Theatre and Film, recently returned from a hectic, year-long sabbatical in England.

During his 11-month stay, Siegel attended more than 60 professional theatre productions, taught a directing workshop, assisted with the production of As You Like It in the Open Air Theatre in Regent's Park and was nominated for the Best Direction Award at the London New Play Festival.

His work, supported and partially funded by Canada House in London, also included introducing the work of four Canadian playwrights to the English theatre scene.

Clarence de Silva has been invited to serve as a member of the National Science Foundation's review panel in dynamic systems and control, in Washington, D.C.

De Silva, a Natural Sciences and Engineering Research Council professor of industrial auto-



evaluating research proposals and making recommendations on matters related to research funding in the specific area of dynamic systems and controls.

The National Science Foundation is the American counterpart of NSERC.

Professor Alfred Siemens, in the Dept. of Geography, has received the Carl O. Sauer



Distinguished Scholarship Award presented by the Conference of Latin Americanist Geographers.

Siemens was recognized for his research on prehistoric wetland agriculture and the historical geography of tropical lowlands in Mesoamerica. He was also

cited for his book, Between the Summit and Sea, published by UBC Press in 1990.

Siemens has been teaching various courses in human geography at UBC since 1962. The award was presented at the conference's latest meeeting in Santo Domingo, Dominican Republic.

# Goalie plays in big league at Canucks training camp

By ABE HEFTER

It's right there in black and white. Page eight of the 1992 Vancouver Canucks National Hockey League preseason guide: Mark Thom. Position: Goaltender. Height: 5-11. Weight: 180 pounds. Birthplace: Prince George, B.C. Date of Birth: August

For five days in September, Thom, a first year Forestry student, 'suited up with the Vancouver Canucks as a member of their training camp roster and played on an intra-squad team that included Canuck stalwarts Jim Sandlak, Jyrki Lumme and Robert

For Thom, it was a dream come

Four days before the start of train-

# **Contest** seeks best green idea

Make it green.

That's the instruction to those entering an environmental invention contest open to all members of B.C.'s post-secondary education community.

The contest, co-sponsored by VanCity Savings and the Tri-University PATSCAN Service, which conducts patent searches, features \$3,000 in cash prizes.

Judges will be looking for novel, workable and commercially viable inventions that can either be used to decrease pollution levels or for the cleanup, protection and conservation of the environment.

The contest is open to all faculty, staff and students at B.C.'s post-secondary institutions.

"The objective of the contest is to create a process or product that will improve an aspect of our environment," said Ron Simmer, patent service librarian at PATSCAN. "Admittedly, this is a small step towards care of the planet, but the accumulation of many small contributions can make a difference."

Inventions will be accepted at PATSCAN from Nov. 2 to April 30, 1993. For more information, contact Ron Simmer at 822-5404.

ing camp, the Canucks called T-Birds hockey coach Mike Coflin and said they were short a goaltender. Coflin



Goalie Mark Thom trained with Canucks

gave the Canucks permission to recruit Thom for a five-day period.

"I was very surprised to get the call

from the Canucks," said Thom. "I thought I might get the opportunity next year, but I didn't expect anything this soon."

de Silva

Thom, who played junior hockey in Prince George last season, said the experience was initially an intimidating one for him. However, once his nerves settled down, he acquitted himself well.

Thomplayed 30 minutes in each of four intra-squad games and helped backstop his team three wins and one

"Once I relaxed, it wasn't as bad as I thought it would be," reflected Thom.

"I learned a lot from Canucks goalie coach Glen Hanlon. His suggestions, coupled with the experience of facing NHL calibre competition, has already made me a better goaltender."

Mike Coflin is hoping Thom's learning experience with the Canucks has only begun.

"I hope that both Mark and our other goalie, Kelly Thiessen, will have an opportunity to occasionally practice with the Canucks during the season and get an opportunity to learn more from Glen Hanlon, who is an

excellent instructor."

Despite Thom's brief taste of bigleague action, he doesn't have visions of an NHL career dancing in his head.

"I'm just happy to have an opportunity to play high calibre hockey in a university setting here at UBC while I pursue an education.

"Playing with the Canucks, my favorite NHL team, was a great thrill and a real learning experience. I was sorry to see it end," Thom said.

"Not many hockey players can look back and say they were at a professional training camp.'

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# Classified

Classified advertising can be purchased from Community Relations. Phone 822-6163. Ads placed by faculty, staff and students cost \$12.84 for 7 lines/issue (\$.81 for each additional word). Off-campus advertisers are charged \$14.98 for 7 lines/issue (\$.86 for each additional word). (All prices include G.S.T.) Monday, November 2 at noon is the deadline for the next issue of UBC Reports which appears on Thursday, November 12. Deadline for the following edition on November 26 is 4 p.m Tuesday, November 17. All ads must be paid in advance in cash, by cheque or internal requisition.

DO IT RIGHT! Statistical and methodological consultation; data analysis; data base management; sampling techniques; questionnaire design, development, and administration. Over 15 years of research and consulting experience in the social sciences and related fields. 689-7164.

'93. U of Toronto staff member seeking house or apartment to rent while attending daughter's nuptial festivities. Please contact Barbara Larrue (CMPTBEB@MVS1.UTCS.UTOPONTO.CA) or Suzanne Armstrong in Vancouver

985-6488 (day) or 984-9096

(evening).

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**United Way** 

BOOK NOW to ensure space for your Xmas party! Enjoy the warm ambience, central location and reasonable cost of the UBC Medical Student & Alumni Centre located at 12th & Heather St. Kitchen facilities are included. To arrange for a viewing or to check availability, call 879-8496.

# Forum

# Replacement incinerator best alternative for clean-up

By NICOLE FERREL

UBC produced 34,000 litres of chemical solvent wastes and 125.7 tons of biomedical wastes from research, clinical and instructional activities in 1991.

In 10 years, with current growth rates and in the absence of a waste minimization program, these figures are expected to reach 44,749 litres and 150.84 tons respectively.

With UBC's 20-year-old incinerators failing to meet provincial government emission standards, UBC is left with the problem of disposing of its hazardous wastes. In resolve, the administration has set about to replace the old incinerators with new, state-of-theart equipment.

Randy Alexander, UBC's hazardous waste program manager, oversees the replacement project.

"The new incinerator will be a tri-university investment," he states, "designed to handle hazardous wastes from UVic, SFU and UBC."

Approximately 80 per cent of the wastes will be generated at UBC, with the other 20 per cent coming from the smaller universities.

According to Alexander, "use of the new incinerator will be restricted to these three institutions. There will be no new sources of hazardous wastes treated here."

Construction and annual operating costs, an estimated \$2,000,809 and

\$400,000 respectively, will be paid for by the users, proportional to the amount of use by each. The universities will be paying their share from taxpayers' contributions to the budget for the Ministry of Advanced Education.

The proposed incinerator will feature all of the latest technology in an attempt to minimize toxic emissions.

"The new incinerator will reduce the emission of contaminants by 90 per cent as compared to the incinerator which is currently operating," says Alexander. "Emissions from the new incinerator will be 40 per cent below upcoming provincial air quality standards."

Clive M.H. Brereton, an associate professor in UBC's Dept. of Chemical Engineering, compared emissions from the proposed new incinerator to other common combustion sources. The results look fairly clean:

- hourly emission of hydrocarbon from the incinerator will be equivalent to 3.6 cars travelling at 55 mph. The incinerator will produce 81 grams of hydrocarbons per hour while a car produces 22.6 grams per hour

- hourly emission of carbon monoxide from a single car is calculated to be three times greater than hourly carbon dioxide production by the incinerator

- when burning biomedical wastes, the incinerator produces a heat equivalent of 41 home furnaces. There are no plans to harness this heat however, as there are no users in the immediate area for the steam this heat could produce.

Incineration will reduce volumes of waste by 90 per cent, thus reducing the need for landfill space, but at the same time emitting certain amounts of toxic and non-toxic compounds into the atmosphere, and presenting a problem in disposing of the ashes.

The ashes, although scientifically considered inert, will be tested for leachability and may be dealt with as a hazardous waste. Precautionary measures would see the ashes encapsulated in concrete and sent to a special landfill site where such materials are held. The location of this landfill site has not yet been established.

Although incineration has its drawbacks, current alternative treatments of hazardous chemical and biomedical waste do not achieve the same safety standards as incineration.

Says Alexander, an engineer by training, "this is waste that has to be dealt with, and I think that this is the most environmentally sound way of doing it."

Despite the high standards and low emissions expected from the new incinerator, some controversy over the location is expected. One of the largest concerns is the proximity of the facility to residential areas including the University Endowment Lands, Point Grey and Kitsilano.

When questioned as to why UBC has chosen to locate the new incinerator on South Campus, so close to resi-

dential areas, Alexander responded, "the hazardous wastes are generated here and we feel that our wastes should be dealt with on site rather than dumping them in someone else's backyard."

Local residents will be invited to voice their concerns in public meetings slated to begin in November. Alexander will be involved with the hearings and would like to see "two-way communication established to get input from the community."

UBC has invested \$75,000 in public relations and communications on the project to ensure that ample public input will occur before construction starts. With \$800,000 worth of engineering plans already in place, the only thing holding the project back is a final OK from the Greater Vancouver Regional District.

The GVRD will make its decision based on the results of the public consultation process. When the GVRD, a politically governed body, is satisfied that public questions have been answered, construction will begin. The new facility will be operational as early as two years after it meets approval.

Reducing the amount of hazardous wastes that UBC produces is a second controversial issue surrounding the new incinerator. There already exists a triuniversity hazardous waste collection and transport system, and steps have been taken to inventory UBC's hazardous waste stream. With all of this organization now

in place a chemical waste exchange system seems the easiest and most logical step towards reduction of wastes. Alexander feels that it is important that minimization and incineration are seen as an integral process. "It's not an either-or situation. There are some wastes that will have to be incinerated, but our primary objective is to minimize," he says.

Alexander hopes that controversy surrounding the new incinerator will raise people's awareness of the need to minimize wastes. He would like to see each of the various contributors to UBC's hazardous waste stream find ways to reduce their wastes. There is optimism that with co-operation, UBC can reduce its toxic wastes by 50 per cent by the year 2000 to meet provincial government goals.

For further information regarding the proposed incinerator and upcoming public consultation sessions, contact Randy Alexander at 822-9527.

Nicole Ferrel is a fourth-year Science student majoring in Ecology, and former environmental programs co-ordinator for the Alma Mater Society.

In the Forum article of Oct. 1, the United Democrats of Hong Kong were incorrectly identified as Liberal Democrats.

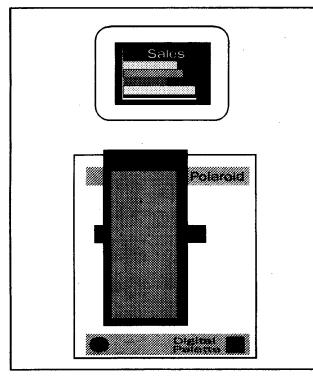
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