

Advanced Education Minister Stan Hagen, centre, was all smiles at an MLA Day demonstration of nuclear magnetic resonance with Chemistry researcher Paul Phillips, left, and President David Strangway. (See story page 2).

UBC Photo Warren Schmidt

## Genetics clinic closure imminent

by Debora Sweeney

British Columbia's only comprehensive medical genetics clinic will be forced to shut down, unless program administrators come up with \$154,000 by next week.

More than 20 jobs are at stake, including clerical staff and genetic assistants.

Dr. Patricia Baird, head of Medical Genetics at UBC, believes the provincial government's new \$20 million hospital funding program is her last hope to save the UBC/Grace Hospital clinic.

"Over the next few years, there'll be many more genetic disorders that we'll be able to detect and that something then can be done about," said Baird. "In the face of that momentum, it seems absolutely incomprehensible the program could be destroyed."

According to Baird, doctors and genetic assistants saw more than 4,000 families and made nearly 2,000 written and telephone consultations last year. The clinic's services include diagnosing children with physical and mental abnormalities, advising people who have accidentally come in contact with toxic chemicals, providing prenatal testing for couples concerned about having abnormal babies, and managing adults who have had early heart attacks. The clinic also provides referrals for tests which are unique in North America, such as tests which can predict the presence of Huntington's Disease before its symptoms appear.

Last week, Baird received a letter from Major Gerald McInness, Administrator of Grace Hospital, saying the hospital was going to cap her budget as of December 1, three-quarters of the way through the fiscal year. It means the clinic's funding will be cut off until the new fiscal year begins in March. That is when the program is slated to expand into Shaughnessy Hospital.

"I am told that in the budgets of Shaughnessy and Grace for the next fiscal year, there is enough money to run the program," said Baird. "So, we are destroying a carefully built-up, cost effective, high profile medical service in this province for a shortfall of \$150,000 to \$160,000."

Baird finds it hard to believe Grace Hospital administrators and the provincial government understand the consequences of the budget cut.

"They may think the service will be retrievable, and when the new budget starts in March, we'll all just go back and start again."

That is not possible, Baird said. If she does

not come up with the money, Baird will be forced to lay-off more than 20 employees. Among them, as many as 10 specially-trained genetic assistants, recruited from around the world. Without their expertise, the clinic could not re-open.

"It's a small world and if word of mouth gets out that we have fired people with such short notice, there is no way we would ever get them back again, or indeed, any other genetic assistants," Baird said.

Baird has stated her case to Grace Hospital administrators and to hospital program administrators from the Ministry of Health. She said they appear to be sympathetic to her concerns.

But, time is running out. Unless they can guarantee her a piece of the provincial government's \$20 million emergency hospital fund, Baird must hand her employees their notices by next Friday.

## Sikh group withholds funding for Chair

by Debora Sweeney

The Federation of Sikh Societies has decided to withhold a cheque for \$50,000 toward UBC's new chair in Punjab and Sikh studies because the University invited an Indian government official to a dinner celebrating the opening of the chair.

Mohinder Gosal, president of the Sikh Federation, said UBC "showed no respect" by inviting Consul-General Jagdish Sharma to the October 19 dinner.

A delegation from the Federation of Sikhs, representing the Sikh community, decided at the last minute not to attend the dinner because the Consul-General was going to be there.

But, UBC President David Strangway said he has "no regrets" about the University's guest list, and refuses to compromise the principles the University stands for.

"I regret very much the Sikh delegation chose not to come," said Strangway, "but we really believe in academic freedom here. As a university, we can't be seen to be politically biased."

With that in mind, the University invited the delegation of 15 members of the Sikh

community, the Consul-General, university officials, members of the Department of Asian Studies, and Canada's Minister of State for Multiculturalism, David Crombie.

Earlier this year, Crombie announced \$350,000 in federal funding for the chair.

"The dinner was the Sikhs' idea in the first place," said Dr. Daniel Overmeyer, head of the Asian Studies Department. "For a year, they wanted to meet with Crombie."

Overmeyer said inviting the Consul-General did not become an issue until the morning of the dinner. That is when he got a phone call from Gosal.

"Gosal said he understood the situation, but said it made it impossible for the Sikhs to come," said Overmeyer. "We agreed it was tragic, but we both had to do what we had to do."

Gosal said it was never his intention to tell the University who to invite. But, at the same time, he claims the Consul-General should have been left off the guest list because he lobbied the federal government not to establish a Sikh chair.

"The Sikh community contributed \$300,000 (to establish the chair)," said Gosal. "Sharma has not even contributed five bucks."

## Drinking spree sparks hazing survey

by Lorie Chortyk

"You are not a true Engineer until you have been swung into one of UBC's many ponds, built especially for this purpose..." reads a section of the official Engineer's Handbook.

The handbook goes on to describe the proper method of Tanking -- "Remove all valuables...Get a good arc for distance..." -- a ritual known all too well to any first-year Engineer.

UBC's orientation traditions date back to the late 1920s, but concern is growing on campus that initiations are getting out of hand.

In September, 13 students were rushed to hospital after they became seriously ill from levels of alcohol consumed during a frosh night party at Totem Park Residence. Five of the students were unconscious upon arrival at the campus emergency unit and two were kept in hospital for observation. Although the traditional frosh dance is non-alcoholic, drinking occurred in rooms and other areas before and during the event.

RCMP Sgt. Don Schleckler said that since September, 10 students from campus fraternities have been picked up for being

intoxicated and causing a disturbance in a public place.

"The fraternity parties tend to get out of hand when new students come in," he said. "For a lot of them, it's their first time away from home and they don't know how to drink socially." He said students are usually kept overnight and released without prosecution.

Alarmed by the Totem Park incident, the Student Housing Department circulated a questionnaire to 2,100 students in Totem Park, Place Vanier and Gage residences this month asking them how they felt about initiation activities. Housing director Mary Flores said the questionnaire asks students to state, anonymously, if they've taken part in initiations, how often, whether or not it was a pleasant experience and whether or not they suffered injuries during the activities.

"I don't want to give the impression that problems like the Totem Park incident are widespread because I don't think they are," said Flores. "What I hope the questionnaire will do is give us a clearer picture of what's really happening in orientation and how students feel about it."

Flores said it's difficult to get hard facts about whether or not new students are being

intimidated because they're reluctant to make complaints, even though standards committees are set up in each residence to deal with such problems.

"Students feel a lot of peer pressure and they don't want to be singled out in the crowd," she said.

Health officials on campus agree that incidents of alcohol abuse and alcohol-related injuries increase during the first few months of the academic year. But Dr. Robin Percival-Smith, director of the Student Health Service, said it's difficult to give definite numbers because students are sometimes vague about the circumstances surrounding an injury.

"It's hard to pin down numbers because a student's not going to come in and tell us he broke his arm falling out of a window at a frosh party. But there's no doubt that these kinds of injuries are more common during orientation," he said.

K.D. Srivastava, vice-president for student and academic services, said the President's Office will take action if incidents of students being intimidated or harassed during initiation are reported.

"When new students come to the campus, there's bound to be the usual pranks, that's

just part of university life," he said. "But it should never get to the stage where students are being harassed. If these incidents lead either to emotional damage or physical injury, then obviously we're going to take a strong position on it."

He said incidents would be reviewed on case by case basis.

Cam Webster, first vice-president of UBC's Interfraternity Council, said although rush parties are common, activities in fraternities are regulated by a policy which bans hazing of new students.

"We follow a by-law passed a few years ago by the National Interfraternity Council that sets out specific activities which are banned," he said. "A fraternity suspected of violating the code can be investigated by the advisor or chief of their district."

Peter Gawlick, a member of the Engineering Undergraduate Society executive, claims that engineers also have their own code of honour.

"About the only thing we do to initiate our first-years is tanking and water bombing. We don't harass our own kind. We just harass everyone else."

# "Hollywood North" invades UBC campus

by Jo Moss

In despair after losing an important competition, and strung out on drugs, a student barricades himself in the physics lab and threatens to blow the place apart. That sounds like a scene from a TV thriller—and indeed it is. An episode from the hit TV series "MacGyver", "Hell Week" was filmed last month right here on campus.

It was one of six major movies or TV shows filmed on campus this year, and represents the university's share of Vancouver's growing status as "Hollywood North".

Show biz brought more than \$30,000 into UBC in the last two years as the university's panoramic location gained acceptance and popularity.

And as Vancouver increasingly becomes the Hollywood producer's choice of location, UBC stands to gain in more ways than one. "It raises the profile of the university as well as generating revenue," said UBC Community Relations Business Manager Sharon Rowse, the initial contact for any film company considering a campus shoot.

Gangsters converged on Cecil Green Park for a gun battle earlier this year in an episode of the TV series "Wiseguy". And students gave up several hours of their favorite past time so the production crew of "Beans Baxter" could use the video games room in the Student Union Building.

Forestry, Botany, Social Work, and Music are some of the departments which have accommodated the disruptions of film crews and cameras for other productions.

According to Rowse, a film company wanting to use a campus site often doesn't give the university much advance notice.

"The production shooting schedule for most companies is so tight that locations may be decided on only days before filming begins," Rowse said. "We now ask for at least three days notice so that approval can be obtained from the departments involved before filming goes ahead."

With the growing number of filming requests, the Community Relations Office has implemented strict controls on the film company's use of the campus, and increased the location fee to \$2,500 a day to cover incurred costs.

"This new policy has proven very effective in allowing requests for commercial filming to be handled smoothly and efficiently," Rowse said.

The Community Relations office vets the script before approving any filming. Media Services liaises with the film company on-site and handles any problems.

That can mean long days for UBC staff involved.

"The film company's trucks parked at 7 a.m. to begin the production of "Wiseguy", Bob Jamison, Media Services Photography and Graphics manager recalled. "They worked right through, without a break, until 3 a.m. the next day."

When all the shooting is completed, Media Services makes a final check to ensure the company has restored the location to its original condition. In the case of "Hell Week", the lab was put back together.



A film crew prepares to begin shooting an episode of the TV series "MacGyver" outside of the Main Library.

## Women's athletic group challenges task force

The Women's Athletic Committee charges recent task force recommendations don't ensure adequate student input in the running of university athletic and sports programs.

The WAC is submitting a proposal to the University Athletic Committee outlining what has to be done to maintain full student participation.

"It's a proposal for a structure that will make student input work," said Linda Diano, WAC member and Big Block president.

Diano said some students fear the UAC will disband the WAC and its counterpart the Men's Athletic Committee. She said those groups ensure fair student representation.

Task force chairman and Vice-president Student and Academic Services K.D. Srivastava said student fears are unfounded. "It was student concern that precipitated the review in the first place," he said. "There's no question of abolishing student input."

Srivastava said it's up to the UAC to decide how it will be accomplished, but said the MAC

and WAC may continue to exist as subcommittees.

Head of the MAC and UAC member, Charles Slonecker, said he doesn't see student representation as a major problem.

"The people on the men's side aren't so worried about what's going to happen," he said.

The task force review of athletic and sports services recommends five student representatives be nominated by the AMS to sit on the revitalized UAC.

Diano said AMS nominated representatives aren't always close to the interests of students involved in athletic and sports programs.

"That kind of rankles," said Jody Woodland, AMS Vice-president and UAC member. "I've rowed for two years, played rugby for three, and had massive participation in intramurals. I feel I know what students want."

Woodland said most students probably aren't even aware of the proposed changes.

## Politicians tour campus

UBC gave a two-day exhibition of some of its best research to MLAs from both the Social Credit and New Democratic Parties.

"It was a great PR job," said Stan Hagen, Minister of Advanced Education and Job Training.

NDP leader Mike Harcourt described the show as "exciting" and "a great learning experience".

Seventeen members of the Socred caucus, including John Savage, Minister of Agriculture and Fisheries, Bruce Strachan, Minister of Environment and Parks, and Clifford Michael, Minister of Transportation and Highways, arrived on campus October 22. Their day included individual faculty presentations featuring: superconductivity, materials research, nuclear magnetic resonance, telerobotics, prominent arts publications, and computers in law.

Coordinated by UBC's Community Relations Office, the program was repeated on November 2 for members of the NDP caucus. Darlene Marzari (Vancouver-Point Grey) and Gordon Hanson (Victoria) were two of nine MLAs who came out to the campus.

MLAs were greeted at the start of the day by UBC president David Strangway and Vice-president of Research Peter Larkin. Their mini-tour included stops at the Physics building, Electrical Engineering building, Museum of Anthropology, and Law building.

A final reception featured an acappella group from the School of Music.

Hagen said he was impressed that the university included arts research as part of the day's program and didn't restrict the focus to science and technology.

"The arts are extremely important and we can't lose sight of that," he said.

Hagen also said it was important that MLAs have the opportunity to see what kind of research goes on at a university the size of UBC.

"Not all of them had a university experience," he said.

"I was very impressed by the enthusiasm shown by all faculty members," said Mike Harcourt. A former UBC law student, he said he was especially interested to see new developments in that faculty.

Socred MLA Kim Campbell, (Vancouver-Point Grey) described the day as "excellent" and said she knew many MLAs would return to further investigate areas of personal interest.

Overall, the two-day event seemed to be warmly received by the faculty involved as well as the MLAs. Dean of Applied Science Axel Meisen said he was very pleased at the interest shown by the visitors.

"They were very responsive and showed a strong interest in our presentation. I think it went extremely well," said Associate Dean of Arts Jonathan Wisenthal.

## Chemical-free sewage treatment developed at UBC

by Jo Moss

Two UBC scientists have developed North America's first chemical-free advanced wastewater treatment process for municipal sewage.

Using techniques pioneered in South Africa, Civil Engineering Head Bill Oldham and research associate Fred Koch have successfully adapted the process to Canada's colder climate.

After ten years of research, a pilot plant on the UBC campus is now using natural bacteria to remove more than 90 percent of nitrogen and phosphorus found in sewage.

The process could be the new line of defence against pollution in B.C.'s lakes if communities adopt the system.

With conventional sewage treatment processes, phosphorus and nitrogen escape into lakes and rivers to feed burgeoning algae populations. The algae are consumed by bacteria in a cycle that eventually uses up oxygen in the lake killing the natural lifeforms.

"If that ever happens to Okanagan Lake it would take about 60 years to restore the balance," Oldham said.

Nitrogen and phosphorus levels in the Okanagan lakes system was identified as a potential problem as early as 1969. Since then the provincial government has encouraged surrounding communities to clean up their act. But the only treatment process available uses chemical additives.

Oldham says that process has a major drawback. Although it produces a "clean" liquid end product that can be disposed of safely, the left-over sludge requires special, and expensive, disposal methods.

He has worked out the bugs—or worked in the bugs—in a treatment process that is entirely bacteria-based. It can service any community from a few hundred to a few million people.

Oldham's research started ten years ago

when a consulting firm asked him to find out whether a biological system used in South Africa could be used in a colder North American climate.

His preliminary work proved that it was feasible. In 1979, Kelowna collaborated with

Oldham to design and build a new treatment plant for the yet-untested process.

"They dared to take a chance," Oldham said. The plant has run continuously since 1982, and the operation is upgraded as more information comes to light.

"In the last eight months we've been getting a 90 per cent removal rate," Oldham said.

One of the major problems Oldham initially encountered was the concentration of B.C. sewage.

"We're great water users in B.C. and our sewage is very diluted. So it comes to the treatment plant containing a lot of oxygen," he said.

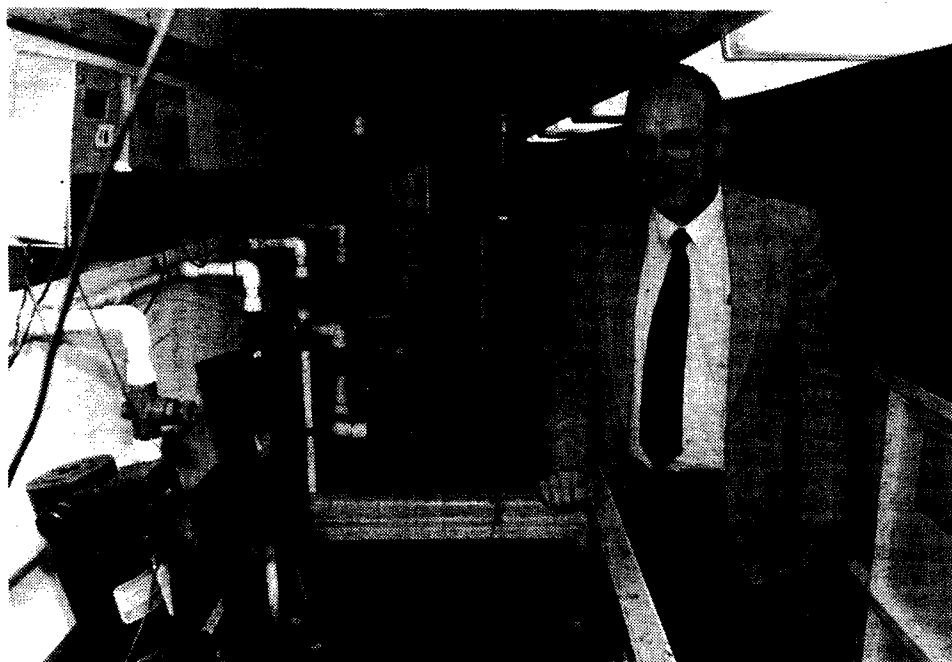
The first stage of biological treatment must be oxygen-free—it's the critical factor that causes the right kind of bacteria to multiply. Oldham and Koch recently developed a fermentation process that solved the problem.

On the basis of this work, two more Okanagan communities, Westbank and Penticton, are designing plants to use the bacteria-based process.

In Kelowna, the sludge that used to require special handling is now carted off to a sanitary landfill site. It's mixed with waste sawdust from a local mill and composts for eighteen months.

The initial capital cost of a biologically-based plant is about a third higher than a chemically-based one. But the operating costs are much lower—about half.

The proposed Penticton plant will cost about \$10 million as opposed to \$8 million it would have cost for a chemical treatment plant. Oldham said the extra costs can be recouped in three to seven years.



Bill Oldham's sewage treatment pilot plant is housed in a 50-foot trailer behind B.C. Research.

UBC Photo Warren Schmidt

# Hormone deficiency tied to bone disease

by Debora Sweeney

A UBC endocrinologist believes she has found the key to preventing osteoporosis, a degenerative bone disease.

Dr. Jerilyn Prior has studied the effects of exercise on women's fertility and bone strength for nearly a decade. She said her research indicates the absence of the hormone, progesterone, which is produced only during ovulation, causes the disease that causes bones to become brittle, porous and easily broken.

Post-menopausal women are the most frequent sufferers of osteoporosis, which affects one in four women over the age of 65. But Prior's research also shows that young women also suffer losses of bone density. In a recent clinical trial, Prior reported that 14 post-menopausal and 3 pre-menopausal women had significant gains in bone density on progesterone therapy alone.

She is looking for 100 women between the ages of 20 and 40 to put her progesterone theory further to the test. The candidates must be in condition, running 15 or more miles a week, and not taking oral contraceptives.

First, the participants will be screened for one to two months to document menstrual cycle change.

Then, the women will be assigned to one of four therapy groups to use a combination of calcium or calcium placebo and Provera (a synthetic oral progesterone) or Provera placebo.

Before and after the study, each participant will have a bone density scan of her spine and shin, have her percentage of body fat measured, her blood sampled to determine hormone levels and provide urine samples to test bone metabolites.

She said her most recent research, which focussed on normally active women through to

marathon runners, has revealed startling preliminary results — results which contradict the popular theory that only extremely active women have problems with their menstrual cycle.

"I would estimate, based on the population of intelligent, active, interested in their health, hard working women we studied in Vancouver, that the percentage is 15 per cent," she said. "The studies that have been done before have not accurately indicated what's happening."

Prior said statistics available before her study indicate only five per cent of the women tested had short luteal phases — that is, the premenstrual time between the release of the egg and the start of menstrual bleeding, which is normally about 10 to 16 days. Prior calls the statistics poor.

"I think it's important for women to know that a fight with a partner or worry about a job or the job at home may be affecting their menstrual cycle," she said. "Not only that, but a lot of women feel that if they're menstruating, they're ovulating — and you definitely can't make that assumption."

## Honest image can sell goods

by Jo Moss

Canadians could profit handsomely in overseas markets if they capitalized on their "nice-guy" image, says Commerce professor David Tse.

He said Canadians are perceived worldwide as being friendly, honest people. And that could open a lot of doors to prospective buyers of Canadian products.

With an aggressive marketing program, products carrying a 'Made in Canada' tag could even beat out other countries' products in consumer preference, Tse said.

"We can definitely capitalize on our positive image which makes us well-received in Asian countries. We haven't yet begun to explore the possibilities," he added.

Tse recently completed a study of consumer behavior in Southeast Asia. The results showed a country's image is as important in marketing its products as the quality of the product sold.

"People in other countries perceive Canada as part of North America, the place where new ideas generate. But they don't see us as carrying any political bags, like the U.S.," he

## People

# Drance, Helliwell get Order of Canada



Dr. Stephen Drance

Two UBC faculty members have joined the illustrious list of Officers appointed to the Order of Canada.

Dr. Stephen Drance and John Helliwell were honored for their contributions to Canadian society at a ceremony last week in Ottawa.

Drance, who is head of the Department of Ophthalmology at UBC and VGH, has spent most of his career researching glaucoma, a common eye disease which can lead to blindness. He gained an international reputation for his discovery of some of the causes of low-tension glaucoma.

Helliwell, an economics professor at UBC, has held a wide variety of academic and professional appointments.

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Prof. Gail Bellward, assistant dean of the Faculty of Pharmaceutical Sciences, has been elected president of the Pharmacological Society of Canada. She is the first woman to be named to the position in the society's 30-year history. Dr. Bellward, a UBC faculty member since 1964, served as secretary and vice-president of the society before becoming president.

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The Canadian Economics Association has awarded UBC financial economist **Espen Eckbo** the Harry G. Johnson prize for the best paper published in the Canadian Journal of Economics, the association's quarterly publication.

Eckbo's paper, titled "Mergers and the Market for Corporate Control: the Canadian Evidence", describes how mergers and takeovers affect the market value of Canadian companies.

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Commerce professor **Shoshana Anily** has won top prize in the annual dissertation competition sponsored by the Transportation Science Section of the Operations Research Society of America.

Anily's paper investigated the methods of shipping goods from storage to retailers. Titled "Integrating Inventory Control and Transportation Planning", it looked at the optimal strategy for goods transportation including when they should travel, how they should travel, and the costs involved.

## United Way

More than 10 per cent of all UBC faculty and staff have pledged donations to UBC's United Way campaign.

"It's fantastic," said campaign chairman Cy Finnegan. "We're half way through the campaign and it means we're well on our way to meeting this year's goal of 15 per cent participation."

Donations to date amount to almost \$90,000.

## UBC Calendar from page 4

**UBC Film Society - Classic Subfilms Film Presentation**  
Dr. Strangelove. Tickets: \$2 each. Hotline: 228-3697. SUB Theatre, Student Union Bldg. 7 and 9:30 p.m.

### TUESDAY, NOV. 17

**Botany Seminar**  
Natural Insecticides and Antifeedants from Desert Sunflowers. Murray Isman, Plant Sciences, UBC. Room 2000, Biological Sciences Building. 12:30 p.m.

**Chemistry Seminar**  
Completely Controlled Ring Opening Polymerization of Cyclic Olefins Using Well Characterized Alkylidene Complexes. Prof. Richard R. Schrock, Chemistry, Massachusetts Institute of Technology. Room 250, Chemistry Building. 1 p.m.

**Oceanography Seminar**  
NOGAP B.8 - The Oceanography of Arctic Shelf. Dr. R.W. MacDonald, Institute of Ocean Sciences, Sidney, B.C. For information call 228-5210. Room 1465, Biological Sciences Building. 3:30 p.m.

**Environmental Interest Group Lecture**  
The Role of Global Events in Local Environmental Change. Dr. C.S. Holling, Resource Ecology Group, UBC. First of a series of lectures on the Brundtland Report. For information call 228-0960. Lecture Hall #1, IRC. 7:30 p.m.

### WEDNESDAY, NOV. 18

**Pharmacology & Therapeutics Seminar**  
Bay K 8644-induced S-T Segment Alterations and Their Reversal by Anti-anginal drugs. Dr. S. Abraham, Pharmacology & Therapeutics, UBC. Room 317, Basic Medical Sciences Building, Block "C". 12 noon.

**Forestry Seminar**  
Forests Forever. Ms. Linda Coady, Senior Manager, Public Affairs, COFI, Vancouver. Free. For more information call 228-2507. Room 166, MacMillan Building. 12:30 p.m.

**History Seminar**  
The Intellectual Sources of Robert Boyle's Philosophy of Nature. Professor Margaret J. Osler, History, University of Calgary. Penthouse, Buchanan Building. 3:30 p.m.

**Human Nutrition Seminar**  
Brown Fat, Energy Balance and Obesity. Dr. Josef Skala, Paediatrics, The Research Centre, UBC. For information call 228-6253. Room 120, Family & Nutritional Sciences Bldg. 4 p.m.

**1987 Ecology-Resource Ecology Seminar**  
Cascading Trophic Interactions and Lake Productivity. Dr. Stephen Carpenter, Biology, University of Notre Dame. Room 2000, Biological Sciences Building. 4:30 p.m.

### THURSDAY, NOV. 19

**1987 Hoffmann Lecture**  
Vitamin A Absorption, Metabolism and Function: Involvement of Specific Carrier Proteins. Dr. David Ong, Assoc. Professor, Biochemistry, Vanderbilt University. For more information call Dr. Sheila Innis, 875-2492. Lecture Hall #4, IRC. 11:30 a.m.

**Botany Seminar**  
Demography and Conservation of a Rare Orchid - Ophrys Sphegodes - in Chalk Grassland. Dr. Mike Hutchings, University of Sussex. Room 2000, Biological Sciences Building. 12:30 p.m.

**Visual & Performing Arts Lecture**  
Technology and its Effect on Teacher Education in the 21st Century. Dr. John Burley, Member of the Commission on Community Music, International Society for Music Education. For information call 228-5367. Room 1317, Scarfe Building. 12:30 p.m.

**English Dept. Live Debate**  
Capitalism versus Socialism: Which is The Moral System? Dr. F. Stockholder, English Dept., UBC, Dr. J. Ridpath, Economics, York University. Free. For information call 224-4285. Ballroom, SUB. 12:30 - 2 p.m.

**English Colloquium**  
Rasselas and The Anatomy of Melancholy: A Continuity of Menippean Satire. Mr. Alex Forbes. Penthouse, Buchanan Building. 3:30 p.m.

### FRIDAY, NOV. 20

**Pharmaceutical Sciences Lecture**  
Pharmacology of New Selective Reversible Type A M.A.O. Inhibitors. Dr. Larry Gontovnick, Assoc. Clinical Sponsor (CIBA - Geigy Canada Ltd.) Room 3, IRC. 12:30 p.m.

**Committee on Lectures**  
Reading from his Work. Mr. Michael Ondaatje, Canadian Writer. Talking about the Theatre and accepting questions. Freddie Wood Theatre. 12:30 p.m.

**Fine Arts Lecture**  
Encounters with Nature: Prints and Drawings. Prof. Lyndal Osborne, Art and Design, University of Alberta. Room 107, Lasserre Building. 12:30 p.m.

**Medical Genetics Seminar**  
Differential Parental Disomy. Dr. Jan Friedman, Medical Genetics, UBC. For information call 228-5311. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St., Vancouver. 1 p.m.

**Fine Arts Seminar**  
Image Development in the Prints of Lyndal Osborne. Prof. Lyndal Osborne, Art and Design, University of Alberta. Printmaking Studio, Hut M-22. 2:15 p.m.

**Chemical Engineering Seminar**  
Simultaneous Electrosynthesis of Alkaline Peroxide and Sodium Chlorate - A New Method of Generating Bleaching Chemicals. Mr. Eric Kalu, Graduate Student. Coffee at 3:15 p.m. Room 206, Chemical Engineering Building. 3:30 p.m.

## NOTICES

### THE VANCOUVER INSTITUTE



Lecture Hall 2, Woodward Instructional Resources Centre. Free. 8:15 p.m.

**Saturday, Nov. 21**  
Frank Scott: "The Politics of The Imagination". Dr. Sandra Djwa, Chairman, Department of English, Simon Fraser University.

**Saturday, Nov. 28**  
The Kaon Factory. Dr. Erich Vogt, Director, TRIUMF, University of B.C.

**Annual Workshop for Medieval Studies**  
Dynasty in the Middle Ages. Sponsored by The Committee for Medieval Studies. Nov. 13-14. For information and registration call J.M. Bak, Dept. of History at 228-5181.

**Mature Students Support Group**  
Sponsored by Office for Women Students. For information call 228-2415. Tuesdays, Nov. 10 - Dec. 15. Room 223, Brock Hall. 12:30 p.m.

**Frederic Wood Theatre**  
The Collected Works of Billy The Kid by Michael Ondaatje under the direction of Arne Zaslove. For information and reservations call 228-2678. Nov. 18-28 (except Sunday). 8 p.m.

**Nitobe Memorial Garden**  
Open Monday to Friday 10 a.m. - 3 p.m. No charge. Closed weekends.

**Botanical Garden**  
Open daily 10 a.m. - 3 p.m. No charge.

**Language Exchange Program**  
This program is for those interested in learning foreign languages or in exchanging a foreign language for English. Call International House between 9 a.m. and 5 p.m. Monday - Friday at 228-5021.

**Thea Koerner House Graduate Student Centre**  
Fireside Lounge lunch service 11:30 a.m. - 2 p.m. (M-F); Lounge open 11:30 a.m. - 11:30 p.m. (M-Th), Friday 'til 1 a.m.; Monday: Video Nights - 8 p.m.; Wednesday: Music Nights - 8 p.m.; Friday: Dance Parties - 8 p.m. Everyone welcome!

**Badminton Club**  
Faculty, Staff and Graduate Student Badminton Club meets Tuesdays 8:30-10:30 p.m. and Fridays 7:30-9:30 p.m. (except Nov. 13) in Gym A of the Robert Osborne Sports Centre. For information call Bernie 228-4025 or 731-9966.

**Fitness Appraisal**  
Physical Education & Recreation, through the John M. Buchanan Fitness and Research Centre, is administering a physical fitness assessment program to students, faculty, staff and the general public. Approx. 1 hour. \$25, students \$20. For information call 228-3996.

**African/Caribbean/Malagasy/Vietnamese Informants Needed**  
Visiting students and faculty invited as speakers (French or English) to African literature class about their countries (arts, literature, culture, socio-political issues, etc.). Please contact Dr. Claude Bouygués at 228-4039.

**Statistical Consulting and Research Laboratory**  
SCARL is operated by the Department of Statistics to provide statistical advice to Faculty and graduate students working on research problems. For information call 228-4037. Forms for appointment available at Room 210, Ponderosa Annex C.

**Student Counselling and Resources Centre**  
'Students Helping Students' is a service that provides disabled students with assistance in disability-related tasks affecting school. For information call 228-4840.

# UBC Calendar

## MONDAY, NOV. 9

**Counselling Psychology Presentation**  
Research in Contemporary Approaches to the Study of Motivation and Learning, Including an Adlerian Perspective. Dr. Eva Dreikurs Ferguson, Southern Illinois University. Room 202, Scarfe Building. 9 a.m.

**UBC Chaplains' Association**  
Aids Forum: The Meaning. Presented by UBC chaplains. SUB 207. 12 Noon.

**Plant Science Seminar**  
Gene Expression in Transgenic Plants. Dr. Joan McPherson, Plant Science, UBC. For information call 228-2329. Room 342, MacMillan Building. 12:30 p.m.

**Cy Keyes Lecture-Seminar**  
Micro-Bubble Flotation. Dr. Roe Hoan Yoon, Mining & Minerals Engineering - Virginia Tech., Blacksburg, Virginia, USA. Sponsored by Mining & Mineral Process Engineering. For information call 228-2540. Room 317, Frank Forward Building. 12:30 p.m.

**Science for Peace Lectures**  
Understanding Strategic Doctrine. Prof. Michael Wallace, Political Science, UBC. Sponsored by Science, Technology & Society Studies. Room 218, Hennings Building. 12:30 p.m.

**Institute of Asian Research Film Showing**  
The people of Asia and Asian Immigrants to Canada. Sri Lanka: 1977 - 24 mins; Thailand: 1975 - 28 mins. For information call 228-2746. Auditorium, Asian Centre. 12:30 p.m.

**UBC Chaplains' Association**  
Aids Forum: The Meaning. Presented by UBC chaplains. SUB 209. 3 p.m.

**Mechanical Engineering Seminar**  
Numerical Calculations for Film Cooling of Turbine Blades. D. Sinitin, Graduate Student. For information call 228-2781. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

**Astronomy Seminar**  
Active Galactic Nuclei. Martin Ward, University of Washington, Seattle. Coffee at 3:45 p.m. Room 260, Geophysics & Astronomy Building. 4 p.m.

**Cecil H. and Ida Green Visiting Professor**  
Translating Japanese. Prof. Edward G. Seidensticker, Japanese Studies, Columbia & University of Hawaii. Room D-225, Buchanan Building. 4 p.m.

**UBC Film Society--Classic Subfilms Film Presentation**  
Some Like It Hot. Tickets: \$2 each. Hotline: 228-3697. SUB Theatre, Student Union Bldg. 7 and 9:30 p.m.

## TUESDAY, NOV. 10

**Faculty Development Seminar**  
Questions Without Answers. Ms. Jocelyn Foster, Head, Social Sciences & Humanities Div., Main Library; Ms. Joan Sandilands, Head, Sedgewick Undergraduate Library, UBC. For information call 222-5272. Room 2449, Biological Sciences Building. 12:30 p.m.

**Botany Seminar**  
Organization, Structure and Information Properties of DNA in Chloroplasts and in General. Peter Sibbald, Botany, UBC. Room 2000, Biological Sciences Building. 12:30 p.m.

**UBC Film Society--Classic Subfilms Film Presentation**  
The Great Gatsby (1949 version). Tickets: \$2 each. Hotline: 228-3697. SUB Theatre, Student Union Bldg. 12:40, 7 and 9:30 p.m.

**Chemistry Seminar**  
Characterization of Transient Intermediates in the Photochemistry of Cyclic Enones. Prof. David I. Schuster, Chemistry, New York University. Room 250, Chemistry Building. 1 p.m.

**Cecil H. & Ida Green Visiting Professor**  
Differing Concepts of Fiction in Japan and the West. Prof. Edward G. Seidensticker, Japanese Studies, Columbia & University of Hawaii. Asian Centre Auditorium. 3 p.m.

**Oceanography Seminar**  
Recent Paleomagnetic Studies of Sediment Diagenesis. Dr. Robert Karlin, School of Oceanography, University of Washington, Seattle. For information call 228-5210. Room 1465, Biological Sciences Building. 3:30 p.m.

**Research Centre Seminar**  
Monoclonal Antibodies Against Rubella Virus Proteins. Mr. Brad Brush, Pathology, UBC. Refreshments at 3:45 p.m. Room 202, Research Centre, 950 W. 28th Avenue, Vancouver. 4 p.m.

**Statistics Seminar**  
Two Unrelated Problems in Biostatistics. Dr. Martin L. Puterman, Faculty of Commerce and Children's Biostatistical Consulting Service, UBC. Refreshments at 3:45 p.m. For information call 228-3410. Room 102, Ponderosa Annex C. 4 p.m.

**Psychology Colloquium**  
A Distributed Memory Model for Serial Order Information. Dr. Stephan Lewandowsky, University of Western Australia. For information call 228-8771. Room 2510, Kenny Building. 4 p.m.

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Editor: Don Whiteley  
Layout: Jo Moss and Linda Coe  
Contributors: Jo Moss, Lorie Chortyk, Debora Sweeney.



*Engineering/physics students Malcolm Smith and Andrew Brown fill their computer screen with images of individual atoms, after building Canada's second scanning-tunneling microscope from a design by UBC Physics professors Tom Tiedge and Richard Cline. The microscope has been described as an instrument that goes 'beyond Einstein's wildest dreams'—examining the internal structure of a surface at the atomic level. The development of the scanning-tunneling microscope won two Swiss physicists the Nobel Prize for Physics last year.*

**Canadian Assoc. for Information Science Seminar**  
CD-ROM: The Arrival of a Storage Medium. Peter Simmons and Jim Henderson, S.L.A.I.S. Discussion and demonstration. Room 835, Main Library. 4:30 p.m.

**School of Rehabilitation Medicine**  
Orientation Evening. Admissions, Q & A Period & Career Presentations (PABC & BCSOT). For information call 228-7771. Lecture Hall #8, IRC. 7 p.m.

## WEDNESDAY, NOV. 11

**Remembrance Day Service**  
Rev. Raymond Schultz, Campus Pastor, will conduct the Service. Address by Dr. May Brown, Scripture read by Chancellor Leslie R. Peterson. All are welcome. For information call 228-2484. Room 210, Old Administration Building. Inspection of Troops 9:50 a.m.; Ceremony 10:45 a.m.

## THURSDAY, NOV. 12

**Psychiatry Academic Lecture**  
Informed Consent: The Psychiatric Patient. Dr. Roy O'Shaughnessy, Head, Div. of Forensic Psychiatry, Psychiatry, HSCH. For information call 228-7341. Room 2NA/B, Psychiatric Pavilion, HSCH. 9 a.m.

**Medical Grand Rounds**  
No Code Blue. Dr. Tweedale, Director, ICU, VGH; Mr. Johnston, Chaplain, CCABC. Room G-279, Lecture Theatre, Acute Care Unit, Health Sciences Centre Hospital. 12 noon.

**Arts One Lecture**  
Did Homer Have a Map? New Observations on The Geography of The Odyssey. Prof. Armin Wolf. For information call 228-3430. Blue Room, Arts One Building. 6358 University Blvd. 12:30 p.m.

**Information Meeting for Engineering Students**  
For 1st year Engineering or 2nd year Electrical Engineering students interested in Co-operative Education. Janet Land, Acting Director, Co-operative Education Programs. For information call 228-3022. Room 200, Computer Science Building. 12:30 p.m.

**Asian Studies Lectures**  
Sexual Metaphors in the Songs of the Bauls of Bengal. Dr. Rahul Peter Das, University of Hamburg, Seminar für Kultur und Geschichte Indiens. Free, all are welcome. Room 804, Asian Centre. 12:30 p.m.

**Meeting of Women's Groups**  
Sexual Harassment and Women's Athletics: Proposed Policies. Sponsored by Status of Women. For information call 228-5165. Penthouse, Buchanan Building. 12:30 p.m.

**Pharmacology and Toxicology Seminar**  
Defective Myocardial Energy Metabolism and Its Role in Heart Dysfunction During Experimental Diabetes Mellitus. Mr. Brian Rodrigues, Graduate Student, Pharmaceutical Sciences. Room 1, IRC. 12:30 p.m.

**Classics Lecture**  
Characterization in Plautus' Comedies of Love Intrigue. Peter Smith, Professor, Classics, University of Victoria. For information call 228-2889. Room A204, Buchanan Building. 12:30 p.m.

## Calendar Deadlines

*For events in the period November 22 to December 5, notices must be submitted on proper calendar forms no later than 4 p.m. on Tuesday, November 10 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.*

**Medical Genetics Seminar**  
The RC Gene - A Useful Model for Research for Retinal Abnormalities. Dr. K.M. Cheng, Animal Science, UBC. For information call 228-5311. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St., Vancouver. 1 p.m.

**Chemical Engineering Seminar**  
Pitch Control at Prince George Pulp and Paper. Mr. J.B. Ball, Graduate Student. Coffee at 3:15. Room 206, Chemical Engineering Building. 3:30 p.m.

**Science and Education Dance**  
Lip sync contest with 900 dollars in prizes. Band: 'Wired', plays after contest. \$5. Profits to Children's Hospital. SUB Ballroom. 7:30 p.m.

**Economic Workshop**  
Ex Ante Regulation and Ex Post Liability: Substitutes or Complements? Charles Kolstad, Illinois. Room 351, Brock Hall. 4 p.m.

**B.C. Skeptics Annual General Meeting**  
Election of Officers. Cold Reading. Bob Farrell, Magician and Metalist. New members and public welcome. For more information call 228-4658. Penthouse, Buchanan Building. 7:30 p.m.

**Continuing Education Lecture Evening**  
Reflections on Margaret Atwood's Handmaid's Tale. Alberto Manguel, writer, translator and critic. \$8, students \$5. For information call 222-5261. Room 80, School of Family and Nutritional Sciences. 8 p.m.

**SATURDAY, NOV. 14**  
**Continuing Education Seminar**  
Beginning a Business and Beyond -- Women Entrepreneurs. Pam Williams, owner, Au Chocolat. To pre-register call 222-5272. Room 50, School of Family & Nutritional Sciences Building. 9 a.m. - 4 p.m.

**Continuing Education Seminar**  
Stock Market Self-Confidence for Women. Nicole Faucher, Account Executive, Wood Gundy Inc. to pre-register call 222-5272. Room 30, School of Family & Nutritional Sciences. 9 a.m. - 4 p.m.

**Continuing Education Lecture/Presentation**  
The People of the Buffalo. Ray McKeown, Plains Indians Interpreter. A re-creation of history through stories, songs and dance. To pre-register call 222-5237. Upper Lounge, Museum of Anthropology. 9:30 a.m. - 2:30 p.m.

**Continuing Education/Museum of Anthropology Lecture**  
People of the Buffalo: The Plains Indians of Canada, Ray McKeown, Sioux Ancestry, Plains Indian Interpreter. \$30, MOA members \$25. Bring lunch, coffee supplied. For information call 222-5237. Upper Lounge, Museum of Anthropology. 9:30 a.m. - 2:30 p.m.

**Continuing Education Workshop**  
Ibsen and Strindberg: A Rediscovery. Errol Durbach, Claire Brown, Catherine Caines and Juliane Gaitanakis. \$60, students \$35. For information call 222-5254. Psychiatric Pavilion Theatre, 2255 Wesbrook Mall. 10 a.m. - 3:30 p.m.

**Critics' Choice**  
A day devoted to the personal delights of fiction with Dr. Ira Nadel, Professor, English Dept., UBC; Alberto Manguel, writer and Eleanor Wachtel, writer/broadcaster. \$38, students \$25 (includes lunch). Sponsored by Continuing Education. For information call 222-5261. Dining Room, Graduate Student Centre. 10 a.m. - 4 p.m.

**SUN, NOV. 15**  
**Continuing Education Workshop**  
Ibsen and Strindberg: A Rediscovery. Errol Durbach, Claire Brown, Catherine Caines and Juliane Gaitanakis. \$60, students \$35. For information call 222-5254. Psychiatric Pavilion Theatre, 2255 Wesbrook Mall. 10 a.m. - 3:30 p.m.

**MONDAY, NOV. 16**  
**Plant Science Seminar**  
Selling Your Soul For Biological Control. Dr. Judy Myers, Plant Science, UBC. For information call 228-2329. Room 342, MacMillan Building. 12:30 p.m.

**Institute of Asian Research Film Showing**  
The People of Asia and Immigrants to Canada. Bamboo Lions and Dragons: 1979 - 29 mins; Bridges: 1982 - 24 mins. For information call 228-2746. Auditorium, Asian Centre. 12:30 p.m.

**Statistics Seminar**  
Statistical inference for Spatial Moving Average Processes. Prof. Marc Moore, Ecole Polytechnique, Montreal, Quebec. Refreshments at 3:15. For information call 228-3410. Room 102, Ponderosa Annex C. 3:30 p.m.

**Mechanical Engineering Seminar**  
Cyclic Variations in Spark Ignition Engines. A. Kapil, Graduate Student. For information call 228-2781. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

**Biochemical Discussion Group/Biochemistry Seminar**  
Hydrocarbon-induced Toxicity in Steroidogenic Organs. Dr. Jan Rydstrom, Biochemistry, University of Stockholm, Sweden. Lecture Hall #4, IRC. 3:45 p.m.

**Preventive Medicine & Health Promotion Seminar**  
Facilitating the Development of Workplace Health Promotion Programs. Mr. John Kirby, Manager, Workplace Programs, Ministry of Health. Free. For information call 228-2258. Room 253, James Mather Building, 5804 Fairview Crescent. 4 p.m.

**Astronomy Seminar**  
Active Galactic Nuclei. Martin Ward, University of Washington, Seattle. Coffee at 3:45 p.m. Room 260, Geophysics & Astronomy Building. 4 p.m.

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