UBC Archives Serial

Proposed MDs' billing plan redistributes health budget

By DEBORA SWEENEY

A UBC economist is proposing a new billing system for B.C. doctors that would help redistribute the province's tight health-care budget.

"This system says to each physician, 'You and your colleagues are responsible for the overall funds in your region - you can come together as a self-governing profession and say what is best to do,'" said Robert Evans.

The proposed billing scheme reflects a growing trend in Canada toward the capping of health-care budgets. Evans said it attempts to establish a system that would work under those constraints.

Evans suggests dividing the province into regions. The amount of funding would be determined by the demographics of each region: An overall estimate of health-care needs compiled from data on the age and sex of the population.

Doctors practicing in those regions would bill for the medical services they provided, but their total earnings would be determined by the fixed budget. If the region went over

See ENCOURAGE on Page 2

UBC Reports

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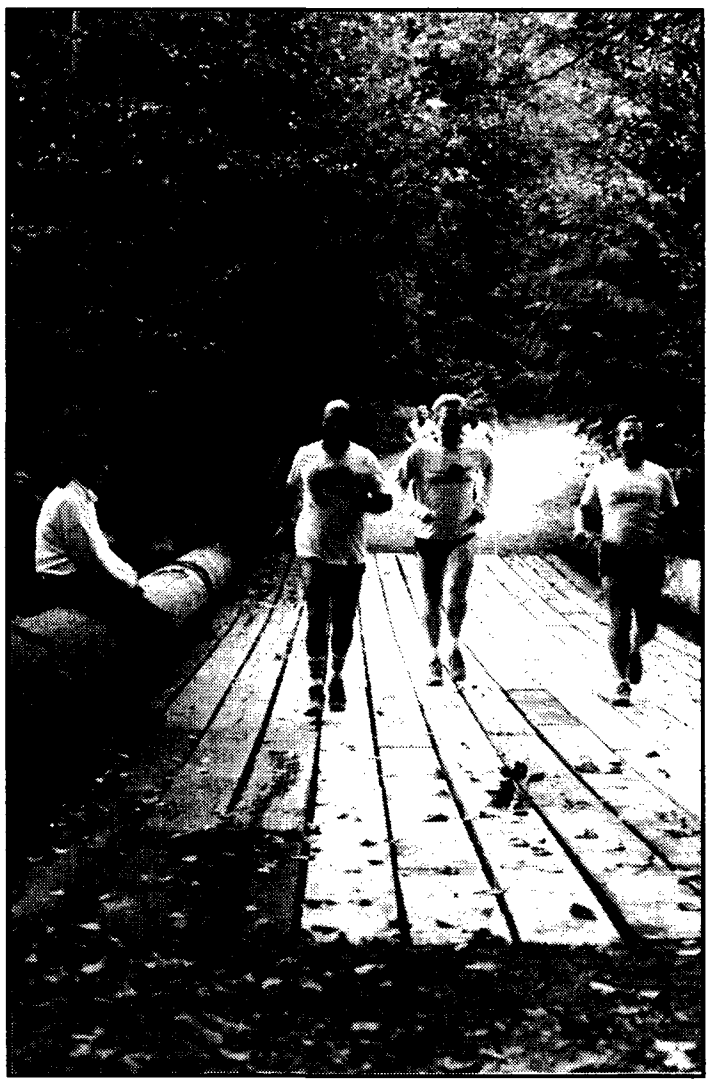


Participants in the recent Terry Fox Run enjoy their jog through Malcolm Knapp Research Forest. Recent improvements to the trails allow visitors to wander at their own pace. Visitors can select from three main routes in the demonstration area at the southern tip of the forest.

Strangway on science

Policies shortsighted

By GAVIN WILSON

CALGARY — UBC President David Strangway told a gathering of scientists and journalists here that some major decisions currently being made by Canadian science policymakers are shortsighted.

Speaking to delegates at a conference on Science and the Media held at the University of Calgary Sept. 22-24, the UBC president cited plans to purchase nuclear submarines and to build the service module of the American space station as examples of poor choices.

Canada should be looking instead to tackle projects that, in addition to economic spinoffs, would generate scientific spinoffs in the form of basic research opportunities, he said.

"I have asked myself what national vision does this support? What will be the benefits to the nation? What scientific spinoffs are there?" he said.

Strangway, who served as chief of the geophysics branch of NASA during the Apollo program, said the manned mission to the moon was an example of a national project which produced enormous opportunities for scientific research, even if science was not the primary goal.

Canada should scrap plans to buy nuclear submarines and instead build a series of automated, unmanned submersibles to monitor Arctic waters, he said. This would meet the goal of maintaining sovereignty and also expand existing technologies, create new ones and allow unique opportunities for basic research.

Similarly, Canada would benefit more in the long term from the space station project if our scientists were more involved in basic research such as astronomy and zero-gravity experiments rather than in servicing the craft.

"Have we become victims of straight technological feats?" he asked. "Should we not use this opportunity to reinforce Canada as a scientific nation, competing on a global basis?"

The Science and Media conference, presented by the University of Calgary's graduate program in Communications Studies was held to discuss ways of raising public awareness of science.

Co-sponsors of the conference were Sigma Xi, the Canadian Science Writers Association and the Centre for Investigative Journalism.

UBC turns down 1990 Gay Games

The University of British Columbia has turned down a request by the organizers of Celebration '90: Gay Games III and Cultural Festival for the use of UBC facilities and housing in August of 1990.

UBC President David Strangway said the university does not want to be involved in "what is largely an event designed to promote a particular cause.

"It's a question of principle," Strangway explained. "Any conference held at this university, by the very fact that it is held here has the implied endorsement of UBC. This (gay rights) is an extremely sensitive and divisive issue in every segment of the community, and the university cannot allow itself to be used politically."

"Giving access is political. Denying access is political. The least political decision the university can make is not to get involved at all."

The Gay Games are scheduled to be held in Vancouver in 1990. It's the first time they have been held outside of San Francisco where they attracted 3,500 competitors in 1986.

Games organizers formally asked UBC last June for campus accommodation and facilities. After a careful review of promotional material supplied by games organizers, UBC's Board of Governors voted at a July 26 meeting to turn down the application.

"After reviewing the promotional material, our conclusion was that the event had little, if anything, to do with athletics or culture. It simply celebrates homosexuality as a significant difference," Strangway said.

In view of the sensitive nature of this particular application, he added, the Board has invited Games organizers and Member of Parliament Svend Robinson, to appear before them at the next Board meeting scheduled for Oct. 11. Robinson had requested in a letter to Strangway an opportunity to present his views to the Board.

"The university is committed to the notion that men's and women's athletic competitions should be open to all regardless of sexual preference," Strangway said.

"I believe gays are an integral part of our society, free to participate in all facets of life and all activities."

Strangway emphasized that at no time will an individual requesting housing at the university be denied accommodations, space providing.

"It may be that individuals attending this event have already made individual bookings and the university clearly supports that right."

Strangway said that in making these kinds of decisions, the university is fulfilling its obligations to the community it serves.

Registrar to review successful Telereg

By GAVIN WILSON

The university's new Telereg system has successfully completed its first full term of operation. Now university administrators are looking for feedback and ideas for fine-tuning the system.

The Registrar's Office is considering ways to improve service, especially at peak times, which include the first three weeks of July and the first week of the course change period in September, said Associate Registrar Alan McMillan.

One option the Registrar's Office is considering is a revised eligibility release schedule which would "flatten out some of the peaks," he said. More effort would be made to inform students that access to the system is available on weeknights and weekends.

The office is looking at a reduction in the maximum allowable length of a call on Telereg. Although most calls were in the three to six minute range, some students stayed on the system for inordinate amounts of time, said McMillan. During the summer, restrictions on the length of calls were imposed.

Other recommendations include an extension of the Telereg hours and more Telereg lines.

Meanwhile, a full review of Telereg will be conducted during the fall term, said K.D. Srivastava, Vice-President, Student and Academic Services.

The review will include: a report from the Student Information Advisory committee; meetings between personnel from the Registrar's office, Information Systems management and timetable representatives; meetings between personnel from the Registrar's Office, Information Systems Management and Faculty Advisors; and a student survey conducted by the Registrar's Office.

Telereg registered 26,449 students as of Sept. 23, its last day of operation for the fall term. Of the students who registered, 27 per cent completed the procedure in one call, 59 per cent did it in three calls or less.

During the recent course-change period the system processed 33,739 adds and 22,368 drops and registered late 1,710 students.

Between June 15 and Sept. 23, Telereg handled a total of 164,596 calls.

No date set for arbitration of faculty pact

Representatives of the university and Faculty Association involved in stalemated contract talks have agreed on who they will approach to sit as members of a three-person arbitration panel.

But as UBC Reports went to press on Sept. 29, no date had been set for arbitration hearings.

Under the framework agreement which governs the talks, an arbitration panel must be brought in if an initial round of negotiations fails to result in a new contract. The association represents about 2,000 faculty members, librarians and continuing education program directors.

Both sides say they would prefer to bring in a mediator for informal discussions, but they are unable to reach agreement on the terms of mediation.

See MEDIATOR on Page 2

More than 60 women ran throught the University Endowment Lands Sept. 27, during UBC's first Women's Day Run. Intramural organizers are hoping the run will encourage women to be more active in intramural athletics.

Coastal forest threatened

Growth worries scientists

By JO MOSS

Scientists are worried that 100,000 hectares of B.C.'s coastal forests aren't growing as fast as expected.

Some cedar, hemlock and spruce plantations on B.C.'s west coast and Queen Charlotte Islands are turning yellow and stagnating because the trees can't take up the nutrients they need from the soil.

Unless scientists can reverse the trend on those areas, B.C.'s next generation of forests may not be there in 40 years, as predicted.

Scientists believe salal, a common shrub which dominates logged areas, may be inhibiting tree growth and they are trying to reverse the process.

They are looking at a parallel situation in Scotland where Sitka spruce plantations are inhibited by heather. Unchecked, the result seems to be infertile heathland.

"We don't want heathland in B.C.," said Gordon Weetman, UBC forestry professor and coordinator of the Salal/Cedar Hemlock Interagency Research Project (SCHIRP). "Heathland is a rundown ecosystem and the evidence suggests it's hard to reverse that degeneration. It amounts to a permanent reduction in fertility."

SCHIRP is an nine-member team working with a major B.C. forest company, Western Forest Products, to find a permanent and economical solution to the problem.

It's estimated that between one third to one half of Western Forest Products' tree farm license areas alone — about 1000 hectares — are affected. The areas were replanted with Sitka spruce after logging in the 1950s and 1960s.

"Initially the trees grew well, but after four to five years the growth rates were not maintained. It became obvious something was wrong," said John Barker, manager of Western Forest Products Technical Forestry Services division.

But what was more disturbing was cedar and hemlock, which occurs naturally on the plantations, was displaying the same symptoms.

Not only do cedar and hemlock make up 75 per cent of all B.C.'s forests, but B.C.'s cedar forests are unmatched anywhere in the world and supply a large share of the world's market.

In 1983, the company joined with UBC in a cooperative effort that brought together experts from different fields to investigate the many ecological factors involved in the complex problem.

"There's all sorts of different things interacting in this situation," Barker explained. "We know that salal is somehow involved, but we don't know precisely how or why."

Scientists considered mechanically stripping the salal, but it wasn't feasible because of the many stumps in logged areas. There's no licensed pesticide to remove the shrub.

They then found that while two important tree nutrients—nitrogen and phosphorus—were present in abundant quantities in the soil, the trees were prevented from getting them.

Information from Scottish heath studies led them to believe that the salal might be causing a chemical inhibition.

The temporary solution seemed to be to develop a fertilization technique to encourage consistent growth. Controlled fertilization of test plots with soluble phosphorus and nitrogen intially produced dramatic results.

"The cedar and hemlock changed color and grew like mad. They responded even more dramatically than the spruce did," Barker said.

But after a three- or four-year growth spurt, the trees, by then eight to 10 feet tall, slowed down. Scientists are now trying to develop a method of fertilization that will sustain tree growth.

"We want to find out how much, how often, for how long," Weetman explained.

The group is also anxious to find a better answer, one that's a permanent solution.

A major field experiment was established earlier this year at Port McNeill, on the north end of Vancouver Island, complete with lab facilities and accommodation.

While scientists investigate the problem more closely, they are also waiting to see what happens when trees on test plots grow large enough to block sunshine from reaching salal through the forest canopy.

"We think the first five to 10 years will provide some answers," Weetman said.

SCHIRP members are: Barker, also adjunct professor at UBC; Weetman; Morag McDonald, Forest Sciences; Hamish Kimmins, Forest Sciences; Shannon Berch, Soil Science; Laurence Lowe, Soil Science; Bruce Bohm, Botany; Val Marshall, Forest Resource Management; and Caroline Preston, Canadian Forest Service.

Deadline for Rhodes is set for Oct.21

UBC students have until Oct. 21 to apply for the prestigious Rhodes Scholarship.

The scholarships, valued at more than $22,000 annually, entitle the winners to study at Oxford University for two or three years beginning in September, 1989. Eleven scholarships will be awarded to Canadians this year.

To be eligible, students should be in their third or fourth year of study, unmarried and 18 to 24 years of age. Applicants are judged on scholastic ability, character, leadership qualities and interest in outdoor sports.

Application forms and further details are available from the Awards and Financial Aid office or Peter Fairy, Secretary of the Selection Committee, Shrum, Liddle and Hebenton, 1300-999 W. Hastings, Vancouver B.C. Tel 643-7928.

Drug use at the Olympics slated for discussion

By DEBORA SWEENEY

The use and misuse of drugs by athletes at the Olympics and here at home will be discussed during UBC's Alcohol and Drug Education Week, Oct. 17 - 21.

The Sport and Drug Hotline on campus hears from many local athletes and their families who want to know about performance-enhancing drugs and their side-effects, said Dr. Jim Macintyre of UBC's Sports Medicine Clinic.

Dr. Macintyre's colleagues, Dr. Doug Clement and Dr. Jack Taunton are scheduled to arrive home from the Seoul Olympics this week and organizers of the noon-hour lecture are hoping they will share their first-hand experiences.

The purpose of the week is to increase awareness of the effects of alcohol and drug use.

Displays will be set-up on the main concourse at SUB, 10 a.m. - 3 p.m., by the RCMP, Alcoholics Anonymous, the provincial government, Counterattack, ICBC and the B.C. Lung Association.

Lectures will take place at 12:30 p.m. each day in the conversation area, main concourse, SUB. They include:

Sally Gribble, MADD (Mothers Against Drinking and Driving). Mon., Oct. 17.

Don Jarvis, Minimal Risk Program, B.C. Ministry of Labour and Consumer Affairs. Jarvis will discuss at what stage social drinking is no longer sociable. Tue., Oct. 18.

RCMP Drug Division. A representative from the RCMP will discuss street drugs and their effects. Wed., Oct. 19.

Alcoholics Anonymous and Narcotics Anonymous. Representatives from each group will discuss the signs of alcoholism and drug abuse and relate personal experiences about addiction. Thurs., Oct. 20.

Drugs and the Athlete. A physician from the UBC Sports Medicine Clinic will discuss the use of performance-enhancing drugs — their side effects and federal laws concerning their use. Fri., Oct. 21.

Killam winners honored

Winners of this year's Izaak Walton Killam Memorial Fellowships were honored at a dinner on Oct. 3 given by President David Strangway and the UBC Killam Committee.

Nine faculty members were made senior fellows, while another 18 were named faculty research fellows. The fellowships, which have been granted for more than 20 years, are awarded annually to faculty on sabbatical. They provide them with enough funds to bring them up to or near full salary.

Another 56 fellowships, worth $26,250 for post-doctoral researchers and $14,500 for pre-doctoral researchers, were also awarded.

The Killam Senior Fellows for 1988-89 and their departments are:

Michael Batts, Germanic Studies; Michael Chandler, Psychology; Stanley Coren, Psychology; Michael Gerry, Chemistry; Judith Hall, Medical Genetics; James Hogg, Pathology; John McPhail, zoology; Paul Watkinson, Chemical Engineering; Jonathan Wisenthal, English.

Winners of the Killam Faculty Research Fellows for 1988-89 are:

Uri Ascher, Computer Science; Izak Benbasat, Commerce and Business Administration; Donald Blake, Political Science; Robert Blake, Zoology; Stefania Ciccone, Hispanic and Italian Studies; Anthony Dorcey, Community and Regional Planning/Westwater Research Centre; Serge Guilbaut, Fine Arts; Neil Guppy, Sociology.

Paul J. Harrison, Oceanography; Robert Jackson, Political Science; Tae Hoon Oum, Commerce and Business Administration; Gary Quamme, Medicine; James Russell, Psychology; Anthony Sinclair, Zoology; Douw Steyn, Geography; Hung-Sia Teh, Microbiology; Nadine Wilson, Physiology; Graeme Wynn, Geography.

Encourage MDs to move

Continued from Page 1

budget, they would receive less than the full fee for their services. If it came in under budget, they would get a bonus.

"A doctor will want to say, 'Do I want to refer a patient for a consultation or a lab test because it's going to cost me?'" said Evans. "That doctor should also say 'I want to take an interest in what my colleagues in the local area are doing and work with them.' The intention is to draw physicians' attention to how their own behavior effects the total fee structure."

The proposal suggests that doctors might be encouraged to move from highly populated areas to more remote regions which face a critical shortage of health-care professionals. In smaller communities, there would not be as many physicians competing for their share of the budget.

"The incentive is to move up to, say, the Interior because then you could be assured that all your patients carry a premium," said Evans. "Yet, if you insist on going to Victoria as a general practitioner and servicing an already heavily serviced population, there's not much incentive.

"A physician might look at this and say 'This is building a conflict of interest because what one guy gains another guy loses.' My reaction is that it isn't my proposal that does that, any budget capping system does that," he added.

Dean William Webber, Faculty of Medicine, said the proposal contains several interesting concepts which are worth evaluation by the medical profession, the provincial government and the public.

Evans prepared the proposal as a discussion paper for the Health Policy Research Unit at UBC.

Mediator

Continued from Page 1

"Discussions are ongoing about bringing a mediator in — that door is still open," said John Cragg, an economics professor who head the association negotiating team.

Pay scales are the major issue.

People

Botanical Garden wins award

MacDonald

UBC's Botanical Garden has garnered its first international award for its innovative plant introduction scheme.

The International Society of Arboriculture recently bestowed the Gold Leaf Award on the garden for "outstanding landscape beautification activities," recognizing the work the garden has done in developing new landscape plants for the gardening public and nursery industry.

Under the plant introduction scheme, nine new or improved species of plants have been released in the eight years since the program's inception.

"The program allows different and unusual species of plants to become available to the public," said **Bruce MacDonald**, the garden's director who was instrumental in setting up the program. "We also want to encourage the use of new plants by landscape architects, city planners and others."

The Canadian Society for Chemical Engineering, a branch of the Chemical Institute of Canada, has recognized **Kenneth Pinder**, head of UBC's Department of Chemical Engineering, as author of the best paper published in the Canadian Journal of Chemical Engineering in 1987.

Titled "Flow Through Porous Media of a Shear-Thinning Liquid with Yield Stress," the paper was published in the June, 1987, issue. The journal is the only one of its kind in Canada.

Pinder's research examines how oil flows through underground rock formations to a wellhead and provides valuable information to oil companies and secondary recovery industries.

Mining and Mineral Process Engineering professor **Chuck Brawner** has been appointed to the federal Minister's National Advisory Council of the Canadian Centre for Mineral and Energy Technology (CANMET).

Brawner is a rock mechanics expert with an international reputation who specializes in areas such as rock stability in underground and surface mining.

The federal research organization, based in Ottawa, undertakes research in both mining and mineral processing and finances independent research projects.

It is also encouraging increased exploration in Canada for minerals like titanium and platinum which are used to fabricate space-age metals and are much in demand on the international metals market. Ninety per cent of the world's supply of these strategic minerals is currently mined in South Africa and the Soviet Union.

The 15 advisory council members represent a wide range of mining and engineering expertise from the public and private sectors. Appointees sit for a three-year term.

Catherine Bell, an Edmonton lawyer, has won a $13,500 Duff-Rinfret Scholarship to undertake graduate work in law at UBC.

The scholarship, one of five announced by Justice Minister **Ray Hnatyshyn** earlier this month, is among the largest available in Canada to graduate students in law. While at UBC, Bell will conduct a detailed study of Metis aboriginal rights and land claims.

Berry

Wallace Berry, a professor in the School of Music, has been chosen an American Society of Composers, Authors and Publishers (ASCAP) Award winner for 1988-89. The awards, issued to assist and encourage writers of serious music, are based on each writer's catalog and the performance of his compositions.

Retired UBC chemistry professor **Douglas Hayward** has taken to the airwaves with his campaign to popularize chemistry for youngsters. His Home Chemistry program can be heard on radio station CFMI 101 FM at 8 a.m. Saturday and Sunday on alternating weekends. Hayward has toured dozens of Lower Mainland elementary schools with his message that chemistry is safe, fun and interesting.

Keith Brimacombe, director of UBC's Centre for Metallurgical Process Engineering and one of the most distinguished metallurgists in North America, received the 1988 Alcan Award at the 27th Annual Conference of Metallurgists held recently in Montreal.

Brimacombe was recognized for his contributions to promoting process metallurgy research and education internationally, and for his pioneering efforts to apply fundamental engineering principles and mathematical modelling to industrial processes.

Brimacombe and **Ernest Peters**, a Metals and Materials Engineering professor, have been elected fellows of the Canadian Institute of Mining and Metallurgy.

The newly established fellowships recognize institute members who have distinguished themselves through outstanding contributions to the mining and metallurgical industry, to the institute and to Canada.

Daubeny

Hugh Daubeny, an adjunct professor of Plant Science and Principal Research Scientist with the Agriculture Canada Research Station on campus, has been named a fellow of the American Society for Horticultural Science. The honor was awarded for contribution to horticulture in the development and introduction of improved strawberry and raspberry varieties. The Totem strawberry, which he introduced in 1971, now accounts for 80 per cent of the B.C. crop.

UBC's Dean of Applied Science, **Axel Meisen**, has been appointed Vice-Chairman of the Canadian Engineering Accreditation Board for a one-year term.

Established by the Canadian Council of Professional Engineers in 1965, the board evaluates Canadian undergraduate engineering degree programs to determine if they meet the educational requirements for registration in the profession.

Thursday, Oct. 20

GSS - Video Night
American Werewolf in London. Free popcorn; free admission. For information call 228-3203. Fireside Lounge, Grad Centre Bldg. 7:30 p.m.

Faculty Recital
Michael Strutt, guitar. Free admission. For information call 228-3113. Recital Hall, Music Bldg. 12:30 p.m.

Alcohol and Drug Education Week
Alcoholics Anonymous. Representative from Alcoholics Anonymous. For information call 228-7011. Conversation Pit, Sub Bldg. 12:30-12:55 p.m.

Alcohol and Drug Education Week
Narcotics Anonymous. Representative from Narcotics Anonymous. For information call 228-7011. Conversation Pit, Sub Bldg. 12:55-1:20 p.m.

Music - Lecture
On the Poem as Non-Vocal Text in the Music of Elliott Carter. Dr. Jonathan Bernard, Prof. of Theory, U. of Washington. For information call 228-3113. Room 113, Music Bldg. 12:30 p.m.

Faculty Concert
Rena Sharon, Piano. Tickets: Adults $8.00, Students/Seniors $4.00. For information call 228-3113. Recital Hall, Music Bldg. 8:00 p.m.

Information Meeting
For students of Engineering, the Sciences and some related fields who are interested in working overseas with the Int'l Assoc. for the Exchange of Students for Technical Experience (IAESTE). Janet Land, Acting Director, Cooperative Education Programs, Speaker. For information call 228-3022. Room 1204, Civil/Mechanical Building. 12:30-1:30 p.m.

Marion Woodward Lecture
Women as Deliverers of Health Care: Implications for Change in Canada's Health Care & Educational Systems. Eva Ryton, Dir. of Office Research & Info Services, Assoc. of Canadian Medical Colleges. For information call 228-7417. Lecture Hall 2, IRC Building. 8:00-10:00 p.m.

Geophysics Seminar
Seismic Determination of the Fate of Subducting Slbs. Dr. Don Anderson, California Institute of Technology, Amoco Canada Visiting Scientist. For information call 228-506. Room 260, Geophysics and Astronomy Building. 4:00 p.m.

Physics Colloquium
Repercussions of Chernobyl: Penetration of Radionuclides into the Food Chain. P. Assimakopoulous, U. of Ioanna, Greece. For information call 228-3853. Room 201, Hennings Building. 4:00 p.m.

Friday, Oct. 21

Pediatric Grand Grounds
The Evaluation and Management of Psychosomatic Conditions in Adolescents. Dr. M. Smith, Chief of Asolescent Services, Children's Hospital & Medical Centre, U. of Washington. For information call 875-2117. G.F. Strong Auditorium. 9.00 a.m.

Health Care & Epidemiology Rounds
A Problem with Reductionism and Epidemiology. Dr. Clyde Hertzman, Chairman Division of Occupational Health, Dept. of HC/E. For information call 228-2772. Room 253, James Mather Bldg. 9:00-10:00 a.m.

Alcohol and Drug Education Week.
Drugs and the Athlete. An MD from UBC Sports Medicine, Speaker. For information call 228-7011. Conversation Pit, SUB Bldg. 12:30-1:20 p.m.

Geography Colloquium
The Trouble with Valleys, Barbara Kennedy, Geography, Fellow of St. Hugh's College, Oxford U. For information call 228-2663. Room 229, Geography Bldg. 12:30 p.m.

Genetics Seminar
Report from American Society of Human Genetics Meeting. For information call 228-5311. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St. 1:00 p.m

NOTICES

Native Expressions
Starting Oct. 18 - every Tues. night at the Extra Extra Bistro, 3347 West Broadway, from 8:00-10:30 p.m. $3.00 at the door. Native performers & creative artists on stage. For information call Kathy at 222-8940. Proceeds to First Nations' Student Fund. Opening night performance features David Campbell and Len George.

Film
Oct. 10-11 - Blade Runner starring Harrison Ford and Rutger Hauer. Tickets $2.50 each at the door. For information call the hotline at 228-3697. Sub Theatre, SUB Bldg. 7:00 & 9:30 p.m.

Management Seminar
Oct. 13-14 - Creative Committees: Getting Fast, Wise and Committed Decisions. Graham Murchie, Dir. of Planning, Surrey; Ieva Woold, Principal, Ieva Woold & Assoc., Group Process Consultants, Speakers. Cost $185.00. A course on how to manage a group of people in the challenging task of decision-making & problem-solving. Carr Hall Conference Room, UBC Centre for Cont. Ed. 9:00 a.m.-5:00 p.m.

Asian Centre Exhibition
Through the Heart of China and Tibet, Photographs by Brian Harris. Oct. 7-16. 12:00-5:00 p.m., daily. Free admission. The Asian Centre.

UBC Fine Arts Gallery
Oct. 4-Nov. 10. Recent Portraits: Fred Rosenberg (33 b/w photographs). Hours: Tues.-Fri. 1:00 p.m.-5:00 p.m. Sat. 12 (noon) - 5 p.m.

Alcohol and Drug Education Week
Displays will be in the main concourse of SUB. Displays will include Ed. Program, MADD, AA, NA. Al-Anon, RCMP breathalizer and drug display case, Student Counselling, UBC & the B.C. Lung Assoc. There will also be guest lectures daily in the conversation pit, SUB from 12:30-1:30 p.m. on the topic of alcohol & drug use and abuse. for information call 228-7011. Concourse, SUB Bldg. 10:00 a.m.-3:00 p.m.

Keep Fit Classes
Int'l House is looking for volunteers, certified Keep Fit instructors. Please call Vivian for further information at 228-5021.

Special Issue on Africa and the French Caribbean
Contemporary French Civilization is preparing a special issue on Francophone Africa and the Caribbean for 1989. Articles in English or French, 15-20 typed pages, on any contemporary culture/civilization topic in Africa or the Caribbean, must be submitted by March 1, 1989. For more information call Dr. Claude Bouygues, 228-2879.

Teaching Kids to Share
Mothers with 2 children between 2 1/2 and 6 years of age are invited to participate in a free parent-education programme being evaluated in the Dept. of Psychology at UBC. The 5-session programme offers child development info and positive parenting strategies designed to help parents guide their children in the development of sharing and cooperative play skills. For further information call Georgia Tiedemann at the Sharing Project 228-6771.

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, students $25, all others $30. For information call 228-4356.

UBC Old Birds Hockey
Non-contact hockey is available for faculty and staff over 50 years of age with the UBC Old Birds. Mondays 5:15-6:15 p.m. on Rink 2, Thunderbird Arena. Come directly to the Arena or contact Lew Robinson at 224-4785.

Evening English Language Courses
Evening English language courses. Conversation Skills: Beginner - Advanced. Speech: Fluency and Pronunciation - Advanced. $175 per course. For information call 222-5285. Room 109, 2062 West Mall, Hut M-18. Oct.3 - Nov. 28. Mon & Wed. 7:00-9:00 p.m.

Evening English Language Courses
Writing and Grammar - Intermediate/Advanced. TOEFL preparation. $175 per course. For information call 222-5285. Room 109, 2062 West Mall, Hut M-18. Oct. 4 - Nov. 24. Tues & Thurs. 7:00-9:00 p.m.

Surplus Equipment Recycling Facility
Sales begin Sept. 7 - All surplus items. For information call 228-2813. Every Wednesday 12 noon - 3 p.m. Task Force Bldg, 2352 Health Science Mall.

Neville Scarfe Children's Garden
Visit the Neville Scarfe Children's Garden located west of the Education Building. Open all year - free. Families interested in planting, weeding and watering in the garden contact Jo-Anne Naslund at 434-1081 or 228-3767.

Badminton Club
Faculty, Staff and Graduate Student Badminton Club meets Thursdays 8:30-10:30 p.m. and Fridays 6:30-8:30 p.m. in Gym A of the Robert Osborne Sports Centre. Cost is $15 plus REC UBC card. For more information call Bernie 228-4025 or 731-9966.

Faculty Club Art Exhibition
Oil Paintings by Paula Seaton until. Oct. 14th, then Photographs by Bill Keay. For information call the Faculty Club at 228-2708.

Language Exchange Program
Exchanging Languages on a One-to-One Basis. For information call 228-5021. International House. Office Hours 9:30 a.m.-4:30 p.m.

Department of Psychology
Individuals 18 and older are needed for a research project on changes in memory across the adult life span. For information call Jo Ann Miller at 228-4772.

Nitobe Memorial Garden
Open 10:00 a.m.-3:00 p.m., Oct. 12 - Mar. 16, 1989. Monday - Friday Free.

Botanical Garden
Open Daily 10:00 a.m.-3:00 p.m., Oct. 12 -Mar 16, 1989. Free.

Theatre
Antigone by Jean Anouilh. Tickets $6. For information and reservations call 228-2678. Room 207, Theatre Bldg. 8 p.m. Matinee 2 p.m.

THE VANCOUVER INSTITUTE

Sat., Oct. 8
Plants That Follow the Sun. Prof. Winslow Briggs, Director of Plant Biology, Carnegie Institution of Washington, Stanford U.

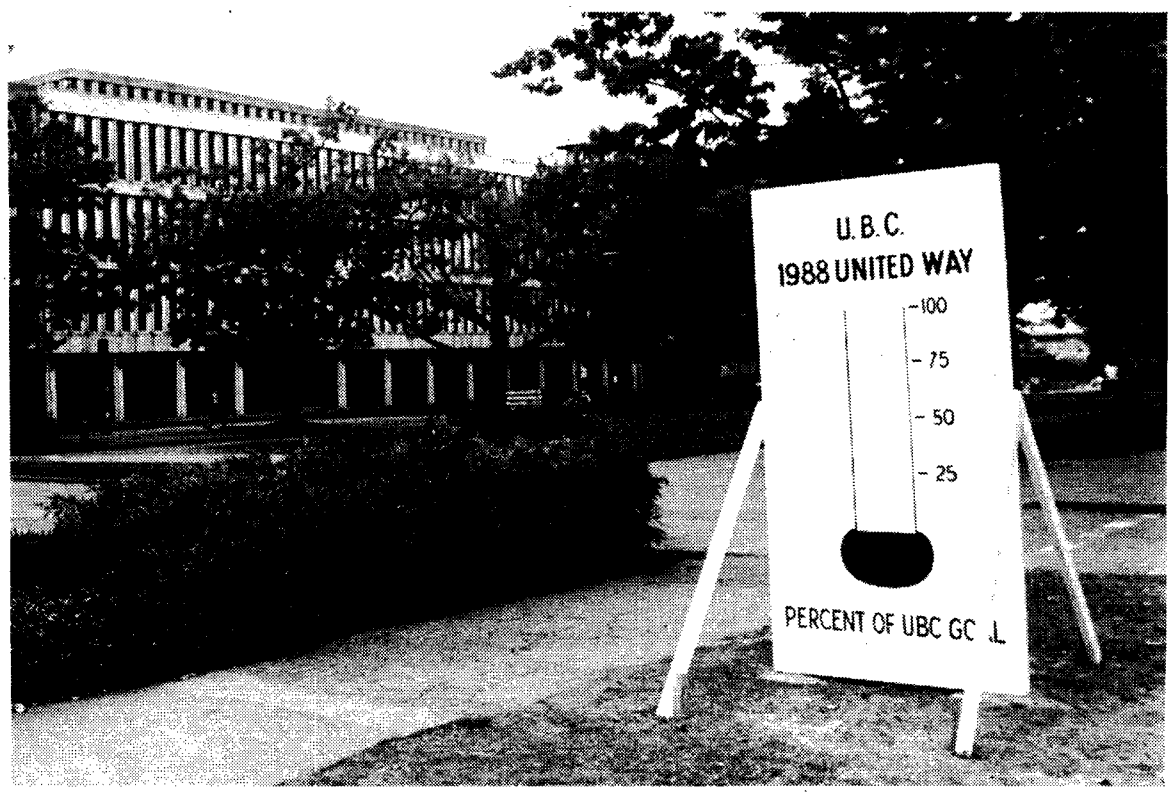
Sat., Oct. 15
Thomas Mann and His Political Engagement. Dr. Kurt Sontheimer, Prof. of Political Science, Geschwister-Scholl-Institut fur Politische Wissenschaft, U. of Munich.

Sat., Oct. 22
A New Approach to Cancer Therapy. Prof. Julia Levy, Dept. of Microbiology, UBC.

All lectures are in Lecture Hall 2, Woodward Instructional Resources Centre at 8:15 p.m.

calendar

Oct.7 – Oct.22



The United Way thermometer, shown at its new location near the corner of Main Mall and University Boulevard, is set to record campus donations to the annual fundraising campaign which began Oct. 1. United Way organizers hope to boost UBC's contribution by 10 per cent this year to $134,000.

CALENDAR DEADLINES

For events in the period Oct. 23 to Nov. 5 notices must be submitted on proper Calendar forms no later than noon on Thursday, Oct.13 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information call 228-3131.

Friday, Oct. 7

Pharmaceutical Sciences Seminar
The Role of Endoplasmic Reticulum (CA2++Mg2+) ATPase in Intracellular Calcium Regulation in Rat Pancreatic Acinar Cells. Graham Brown, Post-Doctoral Fellow, Pharmaceutical Science, UBC, Speaker. For information call 228-3183. Room IRC 3, Woodward IRC Bldg. 12:30 p.m.

Asian Studies Colloquium
"Recent (Since 1985) Developments in Chinese Poetry". Michael Day, M.A. Candidate, Asian Studies, UBC, Speaker. All are welcome. For information call 228-3881. Room 604, Asian Centre. 12:30 p.m.

Chemistry Departmental Seminar
"Mechanisms of Catalysis and Inhibition of Penicillinase". Dr. Tony Fink, Dept. of Chemistry, UCLA, Speaker. For information call 228-3402. Room 225, Chemistry Bldg. 11:30 a.m.

Int'l Economics/Policy Seminar
Rivalry, Int'l Plan Configurations & Global Market Power. Ruth S. Raubitschek (Purdue) (with M. Therese Flaherty). For information call 224-8475. Penthouse, Henry Angus Bldg. 3:30-5:00 p.m.

Medical Genetics Seminar
Chorionic Villi Sampling Update. Dr. R.D. Wilson, Clinical Genetics Unit, Grace Hospital, Speaker. For information call 228-5311. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St. 1:00 p.m.

Committee on Lectures - English Lecture
"Gender in Victorian Social Realist Painting: Must Men Work & Women Weep?".. Prof. Joseph A. Kestner, Dept. of English, Univ. of Tulsa. For information call 228-54254. Room B-212, Buchanan Bldg. 12:30 p.m.

Pediatric Grand Rounds
The True North and South: Aspects of Current Esophageal and Colorectal Surgery in Infants and Children. Drs. G. Fraser & G. Blair, G.F. Strong. For information call 875-2117. G.F. Strong Auditorium. 9:00 a.m.

Tuesday, Oct. 11

Mathematics Seminar
A New Algorithm for Minimum Deficiency Subgraphs. Dr. Richard Anstee, Dept. of Mathematics, UBC Speaker. Room 229, Mathematics Bldg. 3:45 p.m.

Oceanography Seminar
Two Years in the Life of a Mediterranean Salt Lens. Dr. David Herbert, College of Oceanography, Oregon State U. For information call 228-4210. Room 1465, Biological Sciences Bldg. 3:30 p.m.

Rutherford Lecture of the Royal Society
New Studies on the Vaccine Control of the Epstein-Barr Virus Associated with Cancer. Michael A. Epstein, FRS, Foreign Secretary & Vice-President, The Royal Society (London) For information call 228-2636. Room #5, IRC Building. 4:00-5:30 p.m.

Statistics Seminar
Tail Area Approximation. Prof. Christopher A. Field, Dept. of Mathematics, Statistics & Computing Science, Stanford U. For information call 228-3319. Room 102, Ponderosa Annex C. 4:00 p.m.

Botany Seminar
Signal Compound Specificity in Agrobacterium. Paul Spencer, Botany Dept., UBC. For information call 228-2133. Room 2000, Biological Sciences Building. 12:30 p.m.

Chemistry Seminar
Molecular Spectroscopy from a Modern Dynamical Viewpoint. Prof. Eric Heller, Dept. of Chemistry, U. of Washington. Refreshments served in Room 250 from 12:30 p.m. For information call 228-3299. Room 250, Chemistry Building. 1:00 p.m.

Wednesday, Oct. 12

Comparative Literature Lecture
Performance and Sacred Texts. Dr. Roger Seamon, Dept. of English, UBC, Speaker. For information call 228-5157. Penthouse, Buchanan Building. 12:30 p.m.

Jazz and Blues D.J.
John Fossum, Political Science Graduate. If you would like to hear something we haven't got in our collection, bring your own along. For information call 228-3203. Fireside Lounge, Grad Centre. 7:00-12:00 p.m.

Noon-Hour Recital
1988 Gina Bachauer International Competition Winner, piano. Admission $2.00 at the door. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

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Murrin Lecture
Dialogue Between Faiths. Dr. Pauline Webb, Murrin Scholar in Residence. For information call 224-3722. Room A106, Buchanan A Building. 12:30 p.m.

Pharmacology & Therapeutics Seminar
Vasopressin as an Antipyretic Neurotransmitter. Dr. N. Kasting, Dept. of Physiology, UBC. For information call 228-2575. Room 317, Basic Medical Sciences Building, Block "C". 12:00 (noon)

Forestry Seminar
The Development of Parallam (This presentation was given in Sweden this summer on the occasion of the presentation of the M. Wallenberg Award to the authors.) Dr. M. Churchland and Dr. Derek Barnes, Parallam Division, MacMillan Bloedel, Vancouver. For information call 228-4166 or 228-2507. Room 166, MacMillan Bldg. 12:30-1:30 p.m.

Thursday Oct. 13

Working Breakfasts for Working Women
A series of four working breakfasts is again being sponsored this fall by Women in Management Programs, UBC Cont. Ed.

The series starts with Karen Harrison, training and developing consultant, speaking on how to increase personal and professional power. 7:30 to 8:45 a.m., Thurs., Oct. 13, in Le Meridien Hotel, 845 Burrard St.

Cost for the Early Riser Breakfast Series is $64 or $17.75 each. For information call 222-5272.

Oceanography Seminar
A flaw in the quasi-geostrophic approximation - a loss of fluid mass in the reflection of Rossby waves from a coast. Dr. Vitaly Larichev, Institute of Oceanology, USSR Academy of Sciences. For information call 228-5210. Room 1465, Biological Sciences Bldg. 1:30 p.m.

Special Applied Math. & Management Science Seminar
Plant Location Problem. Dr. Gerard Cornuejols, Carnegie-Mellon U. For information call 228-4584. Room & Bldg to be announced. 1:00 p.m.

Hillel House Faculty/Staff Lunch
For further information call 224-4748. Hillel House. 12:30 p.m.

CICSR Distinguished Lecture
Computational Geometry and Graphics. Dr. David Dobkin, Dept. of Computer Science, Princeton U. Title: Computational Geometry and Computer Graphics Life on the Interface. For information call 228-4894. Room 104, Henry Angus Building. 11:30 a.m.

GSS - Video Night
The Fly (1959). Free popcorn. Free Admission. For information call 228-3203. Fireside Lounge, Grad Centre. 7:30 p.m.

Software Protection Seminar
The use of copyright, patents or trade secrets to protect a software product in the Canadian or int'l market. David Wedge, John Knox, Bull, House & Tupper, Barristers & Solicitors. Admission Free. Lecture Theatre No. 1, Instructional Resources Centre Bldg. 7:00-10:00 p.m.

UBC Symphony Orchestra
Gerald Stanick, Director. Free admission. For information call 228-31123. Old Auditorium. 12:30 p.m.

Physics Colloquium
"WIMPS and Dark Matter". G. West, Los Alamos National Lab. For information call 228-3853. Room 201, Hennings Building. 4:00 p.m.

Occupational Therapy Lecture
Heart Disease, Lifestyle Practices and Behavioural Characteristics. Dr. Jerry Johnson, MBA, Ed.D., O.T.R. Findings from interviews of 300 patients with heart disease and their implications for treatment programs which are wellness oriented will be discussed. For information call 228-7399. Woodward #3, IRC. 12:30-1:30 p.m.

Childhoods Revisited Series
Missionary Childhoods. Recollections by David Strangway, President, UBC, and Dan Birch, Academic Vice-President. For information call 228-5286 and 228-5331. Room 209, Scarfe Building. 12:30 p.m.

Friday, Oct. 14

Pediatric Grand Rounds
Development Pediatrics (Topic to be announced.) For information call 875-2117. G.F. Strong Auditorium. 9:00 a.m.

Graduate Student Society - G.S.S Dance
Terminal City. Admission $1.00. For information call 228-3203. Banquet Room, Grad Centre. 9:00 p.m.-1:00 a.m.

UBC Symphony Orchestra.
Gerald Stanick, Director. Free admission. For information call 228-3113. Old Auditorium. 8:00 p.m.

Health Care & Epidemiology Rounds
Managing Health Care Costs at VGH. Fran Caruth, Efficiency Enhancement Coordinator, VGH. For information call 228-2772. Room 253, James Mather Bldg. 9:00-10:00 a.m.

Monday, Oct. 17

Applied Mathematics Seminar
Control Theory and Foraging Decisions. Dr. Don Ludwig, Dept. of Math. & Zoology, UBC. For information call 228-4584. Room 229, Mathematics Building. 3:45 p.m.

Film Showing
"The Badlands". Tickets $2.50 each at the door. For information call the hotline at 228-3697. Sub Theatre, Sub Bldg. 7:00 and 9:30 p.m.

Drug and Alcohol Education Week
Guest Talk by a representative from MADD (Mothers against Drinking Drivers). Sally Gribble, MADD. For information call Margaret Johnston, 228-7011. Conversation Pit, Sub Bldg. 12:30-1:20 p.m.

Biochemical Discussion Group Seminar
Total Chemical Synthesis and Substrate Specificity of the AIDS Virus Protease. Dr. Stephen Kent, California Institute of Technology. For information call Dr. I. Clark-Lewis at 228-7810. Lecture Hall #4, IRC Building. 3:45 p.m.

Cancer Foundation Seminar
Factors Associated with Local Recurrence in Breast Cancer. Dr. Vivian Basco, CCABC. For information call 877-6010. Lecture Theatre, B.C. Cancer Foundation, 601 W. 10th Avenue. 12:00-1:00

Geophysics and Astronomy Seminar
Early History of the Earth. Dr. Don Anderson, California Institute of Technology (Amoco Canada Visiting Scientist). For information call 228-5406. Room 260, Geophysics and Astronomy Building. 4:00 p.m.

Noon Lecture
New Social Movements and Ideas in West German Politics. Prof. Kurt Sontheimer from the Institute for Political Science of the U. of Munich, West Germany. Buchanan Building, Room A104. 12:30 p.m.

Chemistry Seminar
Low Temperature Approaches to New Metal Oxide, Sulfide and Nitride Compounds. Prof. Robert E. McCarly, Energy and Mineral Resources Institute, Iowa State U. For information call 228-3299. Room 225, Chemistry Building. 2:30 p.m.

Tuesday, Oct. 18

Drug and Alcohol Education Week
Minimal Risk Program, Prov. of B.C. Dr. Don Jarvis, Minimal Risk Program, Alcohol and Drug Ministry of Labour and Consumer Affairs. For information call 228-7011. Conversation Pit, Sub Bldg. 12:30-1:20 p.m.

Film Showing
"The Great Gatsby" (for English 100). Tickets $2.50 each at the door. For information call the hotline at 224-3697. Sub Theatre, Sub Bldg. 12:40, 7:00 and 9:45 p.m.

Patent Seminar
Patent Update 88: Latest Changes and Trends in the world of Patents, Particularly the New Canadian Patent Act. Gerald Oyen of Barrigar & Oyen, Barristers & Solicitors and Ted Ring, Canadian Patent Office. Admission Free. Lecture Theatre No. 1, Instructional Resources Centre Bldg. 7:00-10:00 p.m.

Botany Seminar
Effects of Ca2 Modulation on the Germination of Vaucheria Longicaulis Aplanospores. Dr. Luis Oliveira, Botany Dept., UBC. For information call 228-2133. Room 2000, Biological Sciences Building. 12:30 p.m.

Microbiology Seminar
Purification, Cloning and "Exploitation" of Cephamycin Synthesizing Enzymes of Streptomyces Clavuligerus. Dr. Don Westlake, Prof. and Head, Dept. of Microbiology, U. of Alberta, Speaker. For information call 228-6648. Room 300, Wesbrook Building. 12:30 p.m.

Chemistry Seminar
Structural Relationships in Metal-Metal Bonded Ternary Metal Oxide Systems. Prof. Robert E. McCarly, Energy and Mineral Resources Institute, Iowa State U. Refreshments served in Room 250 from 12:30 p.m. Room 250, Chemistry Building. 1:00 p.m.

Wednesday, Oct. 19

Noon-Hour Recital
Lesley Roberts, viola. Winner of 1988 Eckhardt-Gramatte Competition. Admission $2. For information call 228-3113. Recital Hall, Music Bldg. 12:30 p.m.

GSS - Live Music
Celtic Folk. Peter Huron & Tony Wilson. Free Admission. For information call 228-3203. Fireside Lounge. Grad Centre. 7:30-10:00 p.m.

Lectures Committee - English Lecture
Postmodernizing History: The Use & Abuse of Literary History. Prof. Christopher Norris, Institute of Science & Tech., U. of Wales. For information call 228-4254. Room A-202, Buchanan Bldg. 12:30 p.m.

Lectures Committee - English Seminar
Paul De Man and Kierkegaard. Prof. Christopher Norris, Institute of Science & Tech., U. of Wales. For information call 4254. Penthouse, Buchanan Building. 3:30 p.m.

Alcohol and Drug Education Week
Use and Abuse of Street Drugs. RCMP. For information call Margaret Johnston at 228-7011. Conversation Pit, Sub Bldg. 12:30-1:20 p.m.

Telereg Update
Canadian Association for Information Science Telereg, New Technology for Student Registration. Allan McMillan, Associate Registrar, UBC. For information call 228-4363. Sedgewick Library, Conference Room. 4:00 p.m.

Committee on Lectures - French Lecture
Les Modes D'Approche du "Dialogue de Theatre". Prof. Anne Ubersfeld, Univ. of Paris III, Sorbonne Nouvelle, France, Speaker. For information call 228-4036. Penthouse, Buchanan Bldg. 12:30 p.m.

Psychiatry Lecture
Marital Therapy - Some Observations. Dr. James E. Miles, Prof. & Head, Dept. of Psychiatry, UBC Hospital. For information call 875-2025. Room D308, Acute Care Building, Shaughnessy Hospital. 8:30-9:30 a.m.

Murrin Lecture
Making a World of Difference. Dr. Pauline Webb, Murrin Scholar in Residence. For information call 224-3722. Room A106, Buchanan A. Building. 12:30 p.m.

Geophysics & Geology Seminar
Chemical Composition/Stratification of the Mantle. Dr. Don Anderson, California Institute of Technology (Amoco Canada Visiting Scientist). For information call 228-5406. Room 260, Geophysics and Astronomy Building. 4:00 p.m.

Pharmacology & Therapeutics Seminar
Facilitation at the Neuromuscular Junction. A. Bain, Dept. of Pharmacology & Therapeutics, UBC. For information call 228-2575. Room 317, Basic Medical Sciences Building, Block "C". 12:00 (noon)

Forestry Seminar
The Research Program at the Ministry of Forests. Dr. Ted Baker, Director, Research Division, Ministry of Forests. For information call 228-2507 or 228-4166. Room 166, MacMillan Building. 12:30-1:30 p.m.

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