

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 allows 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



The University of British Columbia, Vancouver, B.C.

Volume 34, Number 17, Oct. 6, 1988

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.



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.

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 through 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 Inter-agency 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 a 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 initially produced dramatic results.

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

"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.

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 Heberton, 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 Dorsey, 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

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 well-head 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 Rytton, 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 Slabs. 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. Assimakopoulos, U. of Ioanna, Greece. For information call 228-3853. Room 201, Hennings Building. 4:00 p.m.

Friday, Oct. 21

Pediatric Grand Rounds

The Evaluation and Management of Psychosomatic Conditions in Adolescents. Dr. M. Smith, Chief of Adolescent 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 Wood, Principal, Ieva Wood & 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 breathalyzer 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

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 für 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.

