



President, students debate tuition fee increase

By GAVIN WILSON

About 90 students turned out to an open forum with President David Strangway Jan. 30 to air their concerns about proposed tuition fee increases.

Strangway and the students debated such topics as how UBC's fees rank against other Canadian universities, the meaning of accessibility to post-secondary education and the pros and cons of student financial aid.

The university's Board of Governors votes on Strangway's proposed tuition fee increase guidelines at a meeting today.

The proposal calls for tuition increases for the next three years to be set at the annual Vancouver Consumer Price Index, plus 4.5 per cent.

Under the proposal, portions of the fee increase would be used to bolster financial aid for students in need and enhance UBC's teaching and learning environment.

Kurt Preinsperg, president of the Alma Mater Society, which organized the forum, said he was "quite disappointed" at the turnout. He blamed it on students' preoccupation with the Gulf war, the format of the event and a lack of strong feeling on the issue.

Some students at the forum questioned why



UBC President David Strangway (left) and Jason Brett, president-elect of the Alma Mater Society, debate the issues at a recent forum on proposed tuition fee guidelines.

the university's fund raising campaign, A World of Opportunity, was collecting donations for capital projects but not for keeping tuition fees low.

"We don't need new buildings," said student Jorj McWhinnie.



Photo by Media Services

Strangway said the university deliberately keeps campaign donations out of the operating budget. Some donations are, however, being used to fund endowments that will support new scholarships and bursaries in perpetuity.

"In the very near future I hope we'll be able to say that no one who is otherwise qualified to attend UBC can't afford to study here," Strangway said.

Jason Brett, Alma Mater Society president-elect, asked the president if the university was willing to work with students to protest the level of provincial government funding for post-secondary education. The University of Alberta's senate recently has, he said.

"The situation in Alberta is nothing like it is here," Strangway told him, pointing out that the B.C. government has introduced several new programs in recent years to boost student aid and post-secondary education in general. In Alberta, education funding has been "severely curtailed," he said.

The government's Access for All program is funding 15,000 new positions in post-secondary education in B.C., giving many young people throughout the province the opportunity to attend university for the first time, Strangway said.

To a student, accessibility means whether an individual can afford to attend UBC. But to a university president, he said, it means: is there a funded place in which a student can enrol and receive a quality education?

University wins six awards of excellence

UBC has been honored with six awards of excellence, for 1990, from the Council for the Advancement and Support of Education (CASE).

The university won three gold CASE awards for its "75th Anniversary Public Service Announcements" in the District VIII Recognition Awards competition.

Written and produced by Ron Woodall and the UBC Community Relations Office, the entry took top honors in the category of video communications produced off-campus, radio programming and a grand gold award covering the entire category of electronic use of media.

In addition, UBC won a gold award for individual special program publications for the "President's Report on the Creative and Performing Arts." The

report also took a bronze award for visual design in print.

The university also captured a silver award for the Community Report "It's Yours" in the periodicals and publications category for tabloid publishing.

The President's Report and Community Report were written and produced by the Community Relations Office.

There were more than 500 entries in the overall competition, the largest in the history of CASE District VIII. The district includes provinces and states in the Pacific Northwest covering B.C., Alberta, Saskatchewan, Western Manitoba, Washington, Idaho, Montana, Oregon, and Alaska.

The awards will be presented during a CASE conference on Tuesday, Feb. 26 in Seattle.

Scientific approach urged in forest management debate

By ABE HEFTER

It's time to get past the rhetoric in the ongoing battle to conserve Canada's forests, said Hamish Kimmins, professor of Forest Ecology at UBC.

"Now is the time to leave behind scientifically unfounded and socially naive claims and statements," said Kimmins. "The scientific understanding of environmental problems must be established in order to develop laws that encourage conservation."

However, Kimmins admitted that the sensationalistic approach that has

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UN designation sought for new international law centre at UBC

By CHARLES KER

Developing a global approach to criminal law will be the focus of a new centre to be established jointly at the University of British Columbia and Simon Fraser University.

The universities recently signed an agreement to launch an International Centre for Criminal Law Reform and Criminal Justice Policy.

The centre will be a joint venture among UBC's Faculty of Law, the Institute for Studies in Criminal Justice Policy at SFU, the Society for the Reform of Criminal Law, and Rutgers University in New Jersey. Negotiations are also underway to have it designated as United Nations Inter-regional Institute for Criminal Law and Criminal Justice Policy.

Peter Burns, dean of UBC's Faculty of Law, said the initiative gives UBC the chance to assist nations in developing those parts of their legal system that deal with criminal law.

"It's an enormous opportunity for our faculty members to be engaged in all aspects of the field," said Burns. "They will be part of a network providing expertise leading towards criminal law reform at an international as well as domestic level."

Burns added that the centre will not only attract international figures to UBC's graduate program, but conferences at the centre would also draw world leaders in the field of criminal

law to Vancouver.

UBC President David Strangway commented that the centre will provide an intellectual resource for scholars around the world.

"It will be a place where people from other countries can come and understand the best way to revise their laws to accommodate both cultural and multinational issues."

Strangway pointed out that UBC's Asian Law Program is well-placed to develop a further program of activities dealing with the Asia Pacific region.

"Geographically, it's very exciting," said Strangway. "We on the west coast will be able to look at the Asian side of issues while Rutgers looks at European concerns. It makes for global coverage."

Burns said UBC's law program, together with the criminology program at SFU, made Vancouver a logical choice for the centre's location.

UBC's law library, with some 180,000 volumes, has a comprehensive criminal law collection. The university's legal clinic, in its provision of legal services to the needy, is actively involved in criminal law.

The Institute for Studies in Criminal Justice Policy at SFU will provide administrative and research support for the new initiative. It is one of only six criminal justice policy institutes in North America.

Burns said another reason Vancou-

ver was chosen for the centre was because of the enormous support the project received from both the legal and university communities.

The Law Foundation of British Columbia has committed \$640,000 to the joint project, conditional upon matching funds from the provincial and federal governments. UBC is providing 2,000 square feet of furnished space to be shared by the Society for the Reform of Criminal Law and the U.N. Inter-regional Institute for Criminal Law.

Burns said the society will likely be operating on campus in May, followed by the U.N. institute in February, 1992.

Organized in 1988, the society is a non-governmental association of about 300 judges, legislators, lawyers, government officials and academics from 80 cities worldwide. Rutgers University is publisher of the society's journal.

The society has so far held five conferences focusing on problems in the development of criminal law.

Its conference in 1988 dealt with the state of sentencing and parole in Canada and influenced major changes made subsequently in the parole systems of England and Scotland. Other conference topics included Police Powers and Citizen Rights and the treatment of women in the criminal justice system.

Inside

LEFT-HANDED HAZARD: A UBC study indicates that right-handed people are likely to live longer than left-handed people. Page 3

WAVES OF DESTRUCTION: UBC scientists foresee tsunami waves if severe quake occurs off B.C. coast. Page 6

POSTAL CODES CHANGING: Campus postal codes are being changed over the next several months. Page 8

Northrop Frye's Vision of Culture

by ALEXANDER GLOBE

When Northrop Frye died on January 22 at 78 years, he left a legacy that changed many lives through his writing and teaching of English literature at the University of Toronto.

The introduction to Robert Denham's 450-page bibliography of works by and about Frye cites a study of 980 humanities journals that found him eighth on the list of most frequently cited authors, after only Marx, Aristotle, Shakespeare, Lenin, Plato, Freud and the contemporary French critic, Roland Barthes.

Canada's most significant man of letters, Frye was showered with honors, including Companion of the Order of Canada (1972), the Royal Bank Award (1978), the Governor General's Prize (1987) and 36 honorary degrees around the world. UBC's D. Litt. came early, in 1963.

After receiving a BA in English at Toronto, he studied theology and was ordained a United Church minister in 1936. Further study in Oxford ended with a teaching post back in Toronto, but the religious background remained prominent. In a recent documentary on CBC Radio's Ideas, Frye said he turned down prestigious American professorships because there was nothing comparable in the U.S. to the United Church or the CCF/NDP. For Frye, these institutions embodied democratic ideals for human fulfillment. As the years passed, he wrote for an increasingly wider non-academic audience, always battling what he termed mental tyranny in a typically Canadian way, mild mannered but firm.

His first book, *Fearful Symmetry: A Study of William Blake* (1947), established that poet as a force who could no longer be limited to a few lyric verses on university courses. Blake intrigued Frye because of his engagement with metaphor, the tool a poet uses "to show you a world completely absorbed and possessed by the human

mind" (*The Educated Imagination*, 1963, p. 11). Written through the dark years of World War II, *Fearful Symmetry* champions a vision of freedom that has attracted many since the Romantic movement of the early nineteenth century laid the foundation for modern literature and art. After 44 years, the book still sells 800 copies a year.

Anatomy of Criticism (1957) established Frye's international reputation. Translated into eight languages, it has sold over 120,000 copies (3,000 last year). When he started writing in



Photo courtesy Penguin Publishing Corp.
Northrop Frye is widely regarded as Canada's most distinguished man of letters.

the late 1940s, historical surveys dominated English courses. Frye was in the vanguard that implanted critical theory everywhere. He started from the premise that literary criticism was "badly in need of a coordinating principle, a central hypotheses which, like the theory of evolution in biology, will see the phenomena it deals with as parts of a whole" (p. 16). His range of reference makes serious demands, but his suggestive metaphors open up possibilities to virtually all readers as he examines the structure of literary genres (the novel, drama, etc.), modes (comedy, tragedy, etc.) and myths (rep-

resentations of human desire and repulsion). When I first read the *Anatomy* as an undergraduate, literature was suddenly transformed from a series of individual (if brilliant) works to a populous city of communicating voices.

Frye's final achievement was the two-volume work on the ways the Bible underlies the structure of western literature. *The Great Code* (1982—now available in 22 languages) and *Words with Power* (1990) continue the debt to Blake, who supplies four chapter headings for the discussion of English literature ("Mountain", "Garden", "Cave" and "Furnace"). In these books Frye achieves something unattempted by the historical biblical criticism of the last two centuries. He grapples seriously with the treacherous interface between biblical and modern notions of language. Then, taking up the Bible's penchant for quoting itself, he shows how, despite historical discontinuities, one phase of the Bible absorbs its predecessor as another develops out of it. The last few sentences of *Words with Power* (concluding a discussion of the book of Job) stand as a fitting epitaph for someone so committed to literature, who fused a compassion for humanity with an apocalyptic desire for ideal order:

"When we become intolerably oppressed by the mystery of human existence and by what seems the utter impotence of God to do or even care anything about human suffering, we enter the stage of Eliot's 'word in the desert,' and hear all the rhetoric of ideologies, expurgating, revising, setting straight, rationalizing, proclaiming the time of renovation. After that, perhaps, the terrifying and welcome voice may begin, annihilating everything we thought we knew, and restoring everything we have never lost."

(Alexander Globe is a UBC English professor.)

Book will provide environmental facts in everyday language

Continued from Page 1

been used by some conservationists has been effective in alerting the public to the environmental problems facing the forest industry.

"In order to wake up the public, some conservation groups have made statements that are often scientifically inaccurate and violently rhetorical. But perhaps this has been necessary because, if you're logical, and have all the ifs, ands or buts, nobody listens to you. You're boring."

Kimmins said a scientific understanding of the facts must now be established before we can ask what does society want and how can we achieve it."

Kimmins has launched two initia-

tives in an effort to get science into the environmental debate. The UBC professor has nearly completed a book titled *Only Diamonds are Forever*. Kimmins said the book is his attempt to provide the public with access to a science-based understanding of the major environmental issues affecting forestry.

"The book is being written for the everyday person. Hopefully, it will help people as they make decisions on environmental factors which affect the forest industry."

In addition, Kimmins is taking his book on the road as part of the university's goal to alert the public as well as the campus population to the

issues surrounding responsible forest management. He is currently in the midst of a tour of 15 interior B.C. communities which will end in mid-March.

"The forest industry deserves much credit for inviting me to take part in this series of lectures," said Kimmins. It has given me the opportunity to study local issues which affect B.C. communities, answer questions, and present the science of the situation."

"The public must be given the chance to learn the scientific facts so they can channel their efforts in the right direction to achieve society's conservation goals," he added.

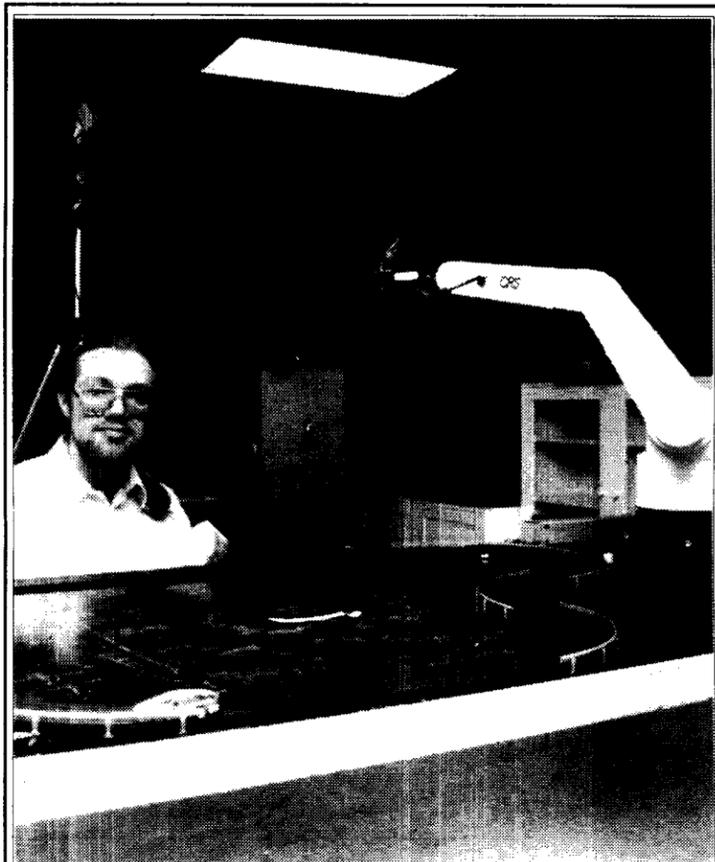


Photo by Media Services

The new Laboratory for Computational Intelligence in the department of Computer Science opened Jan. 31 with live demonstrations including the one shown here. Technician Stewart Kingdon watches as a robotic arm, right, controls and electric car on a track using information relayed to it by a video camera, rear. The new lab incorporates the existing Laboratory for Computational Vision with research in other areas of artificial intelligence. The lab received funding from several sources, including the Institute for Robotics and Intelligent Systems, one of the 15 federal Networks of Centres of Excellence, and B.C.'s Ministry of Advanced Education and Job Training.

Dr. Tom Perry, M.L.A. (NDP candidate, Vancouver-Little Mountain) and Little Mountain New Democrats present:

JOHN BREWIN, M.P. (Victoria)

NEW DEMOCRAT CRITIC FOR DEFENCE AND DISARMAMENT

"DOES CANADA HAVE AN INDEPENDENT FOREIGN POLICY?"

Sunday, February 17, 1991 at 1:30p.m.
Heritage Hall, 3102 Main Street.
Free admission

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UBC therapy investigates alternatives to alcohol

By CHARLES KER

At a glance, the sketch shows a happy family: mother, father and daughter walking hand in hand with son perched comfortably on dad's shoulders. Happiness and comfort, however, are not part of this picture.

The illustration is being used to promote a treatment project developed at UBC for alcoholic fathers and their families. In the sketch, the father's figure is outlined, but left blank, alienating him from the others.

"The notion of an alcoholic family and alcoholic marriage have almost become catchwords in our culture," said John Friesen, director of The Alcohol Recovery Project. "The illustration raises questions about how a family organizes itself in relation to alcohol."

In 1987, the B.C. Task Force on Drug and Alcohol Abuse in the workplace indicated 10 per cent of the province's adult population suffered from alcoholism. The report also noted that drinking habits put another 17 per cent of the workforce at risk of developing a dependency.

Since September, Friesen and 16 researchers have been using the Alcohol Recovery Project to explore the effectiveness of a treatment called Experiential Systemic Therapy (ExST).

Developed over the last four years, the 15-week treatment is being offered to 150 families who have one or more children age four or older, an alcohol-dependent father and non-alcohol dependent mother.

When the therapy is completed in December, another nine months will be spent analyzing data gathered from

questionnaires and 2,000 videotaped therapy sessions with participants. The data will eventually be compiled into a report and used to improve treatment in a variety of government and private counselling agencies.

Friesen, a professor with UBC's Department of Counselling Psychology, indicated that the core of the treatment is the therapy sessions.

"Our treatment recognizes that al-

coholics don't need an explanation, they need an experience," said Friesen. "Therapy is an interpersonal process, the success of which is dependent upon a client's experience."



According to Friesen, most significant experiences are symbolic in nature. For the alcoholic, the symbol of the bottle conjures up mixed feelings of both despair and friendship.

During therapy, clients are sometimes encouraged to use an empty bottle as a symbol of their ambivalent feelings. Friesen said some clients hug it, others smash it and a few swear at it, but at the end of therapy they leave the bottle alone.

"By viewing this dependency in-

relation to his family and surroundings, the alcoholic fathers may want to consider giving up this friendship with alcohol and replace it with something more constructive," said Friesen. Unlike many other therapeutic models, Friesen said ExST therapy is seen as something created with clients, as opposed to something imposed upon them. The treatment uses a non-dogmatic, empirical approach that builds on clinical experience and research evidence.

Participants are randomly split into three groups: one group monitors itself and receives regular feedback from a therapist; a second group, involving just the father, receives ExST individual therapy and the third group uses ExST couples therapy with the mother and father.

All participants receive treatment from trained professionals for one hour each week. In addition to

filling out questionnaires before, during and after the project, participants are also asked to complete a "weekly situation diary" outlining their reactions.

Fifteen weeks after the therapy is finished, clients are again asked to complete a questionnaire to see if changes have been maintained. An honorarium of up to \$200 is paid to each family for their involvement in the research.

Funded largely by the Ministry of Labor and Consumer Services, the treatment is being offered at the Surrey Alcohol and Drug Programs Clinic and at Summit Clinical and Consulting Services in Duncan. For more information call 228-3499.

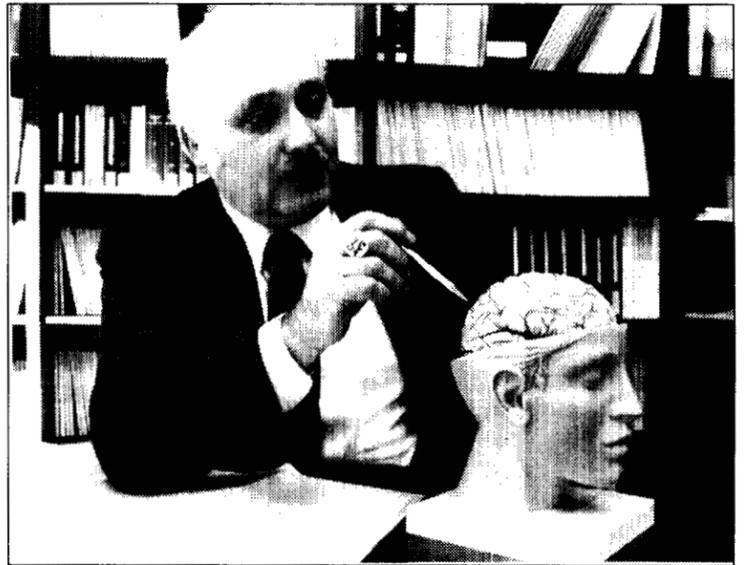


Photo by Media Services

Professor Stanley Coren with model of brain: not safe to be a southpaw.

Records reveal longer life for right-handers

By CHARLES KER

Right-handed people live about eight years longer than left-handers, a University of British Columbia study indicates.

"It's just not safe to be a southpaw," said UBC Psychology Professor Stanley Coren. "Lefties seem to be physically more frail and accident prone."

The study, published in the January issue of Psychological Bulletin, is the latest in a series on handedness which Coren has been conducting for the last 20 years.

Working with University of California Professor Diane Halpern, Coren based his research on 987 randomly selected death records in two southern California counties.

Data showed the mean age of death for lefties was 66, while right-handers generally lived to 75. Between right- and left-handed males, right-handers lived to 72 compared to left-handed males, whose life expectancy was 63.

There was a five-year difference in life spans among left- and right-handed females with right-handers living to 77

and lefties to 72.

In an earlier study of 1,900 UBC students, Coren found left-handers were 89 per cent more likely to sustain accident-related injuries and six times more likely to die of an accident-related injury than were right-handed people. Left-handers were also four times more likely to die in traffic injuries sustained when they were driving.

According to Coren, left-handers are generally more frail than right-handers because they are more likely to have been born from stressful births. This makes them more susceptible to conditions such as diabetes, insomnia and allergies.

Coren estimates that 2,500 left-handed Canadians are dying needlessly in accidents each year because the world is designed for right-handers.

To make life safer for lefties, Coren would like to see handedness included in government accident report forms.

"We could then locate the accident hotspots where southpaws get into trouble," said Coren.

Coren's book on left-handers will be published in the fall.

Working, and working out, at UBC

By RON BURKE

We've all seen them: they're always heading out at lunchtime for a run, or they bike to work, or they head off to the pool at the end of the day for a swim.

They're cranks, weirdos, fitness freaks, right?

Actually, they're the guy who works down the hall or the woman in the next office.

People play tennis, do aerobics, train with weights and take part in a hundred other fitness and recreational activities on campus every day. And everyone seems to have such a good time doing it. The War Memorial Gym continually spews clusters of chirpy, neon-clad runners, all looking like schoolkids making a fast break for the start of summer vacation.

The fact is, UBC offers a great opportunity to combine work with an

"Exercise is a great stress reducer."

active, fit lifestyle. After all, how

many people have a world-class aquatic centre within walking distance of their workplace? Where else could you use your lunch hour to go for a run through the woods or along the beach?

Kim Gordon, Assistant Director of Athletics, says it's the scenery that gets people going.

"There aren't too many places downtown where you can walk out the door and find miles of running trails," she said.

Gordon is a former Canadian national team rower, but now works out for the health benefits and for simple enjoyment.

"Getting out of the office during the day to exercise is a great stress reducer."

Gordon joins other staff and faculty for noon-hour drop-in volleyball games in the Osborne Gym. The calibre is good, but the accent is on fun and participation.

"It's a chance to combine a good workout with getting to know other people on campus," she said.

Dr. Jack Taunton, co-director of the

Allan McGavin Sports Medicine Centre on campus, lauds the variety of terrains available.

"UBC is a great place to combine work and athletic training," he said. "The cycling and running paths are well integrated on the University Endowment Lands and there are all kinds

AROUND & ABOUT

of surfaces to choose from: grass fields, a track, hills, roads, trails and the beach."

Dr. Taunton points out that easy access to the various terrains and facilities also encourages group training.

"People motivate and learn from each other through training groups,"

he said. Learning about techniques and training methods is important; many recreational athletes encounter

"It's more fun to train together."

overuse injuries by trying to do too much too soon, particularly if they concentrate on one activity.

"As for group training," Dr. Taunton added, "there's a social aspect that ties in with the motivation. Often it's more fun to train together, especially during dreary weather."

There's also safety in numbers. Scenic, wooded trails can be dangerous places to run alone, but who's going to mess with half-a-dozen runners, arms pumping, teeth flashing and all clad in bright outfits. Group members can also spot for each other during weight training sessions, and three or four cyclists together are more visible to motorists than a single rider.

Physiotherapist Ron Mattison of the Sports Medicine Centre summed it up this way: "It's a treat," Mattison said of being able to combine fitness and recreational activities with working at UBC. "You'd never admit it, but there are probably people willing to work on campus for less money than elsewhere, just for that benefit."

Many of the people you see swimming, cycling and running on campus are training for the UBC Triathlon, which takes place on Saturday, Mar. 9. This short-course triathlon (800 metre swim, 23 kilometre cycle and 7 kilometre run) is part of Intra-mural Sports' Partners in Participation series, which encourages community involvement in UBC recreational activities.

This is the ninth year for the event, which, due to its shorter-than-Ironman distances, is a popular first-time race for novice triathletes. Organizers expect all 940 entry spots to fill. For more information, call 228-6000.



February 9 –
February 23

SATURDAY, FEB. 9

Vancouver Institute Lecture

 Miletus To Waxahatchee: A Tale Of Two Cities. Leon Max Lederman, Director, Fermi National Accelerator Lab, Batavia, Ill. Woodward IRC #2 at 8:15pm. Call 228-5675.

SUNDAY, FEB. 10

A Samuel Beckett Repertory

Happy Days. Tickets \$5. Saint Mark's College, 5935 Iona Dr. at 8:15pm. For reservations call 224-3311.

Sundays At MOA

African Rhythms: Marang African Music And Dance Theatre. Includes dances of the Mandinka and Zulu; percussion and masquerade of the Yoruba and drum poems of the Ashante. Free with admission. Museum of Anthropology Great Hall at 2:30pm.

MONDAY, FEB. 11

Computer Services Hands-On

Intro To EMACS-A UNIX Editor. John Hogg. Computer Sciences Annex Micro2 from 9am-12noon. Call 228-3941.

Paediatrics 1990/91 Research Seminar

Controversies In Infant Fat Requirements: Defining Requirements For The Developing Brain And Retina. Dr. Sheila M. Innis, Paediatrics, UBC. University Hospital, Shaughnessy Site D308 at 12noon. Call Dr. Josef Skala at 875-2492.

UBC Student Composers Concert

Free Admission. Old Auditorium at 12:30pm. Call 228-3113.

Mechanical Engineering Seminars

Multiple Jet Flows In Recovery Boiler. Daniel Tse. Dynamics And Control Of The Proposed Space Station. Afzal Suleman. Both speakers, Ph.D. candidates, Mech. Engineering, UBC. Civil and Mech. Eng. 1202 from 3:30-4:30pm. Call 228-6200.

Astronomy Seminar

 Mixture Models For Studying Stellar Populations. Dr. Jim Nemeec, Geophysics/Astronomy, UBC. Geophysics/Astronomy 260 at 4pm. Call H. Richer at 228-4134/2267.

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Please recycle

CALENDAR DEADLINES

For events in the period Feb. 24 to Mar. 9, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Tuesday, Feb. 12 to the Community Relations Office, 6328 Memorial Rd., Room 207, Old Administration Building. For more information call 228-3131. The next edition of UBC Reports will be published Feb. 21. Notices exceeding 35 words may be edited.

President's Lecture

Homage To John Locke: Mechanisms For Learning The Meaning Of Words. Prof. Lila Gleitman, Psychology, U. of Pennsylvania. Sponsored by the Committee On Lectures, Audiology/Speech Sciences, Philosophy and Psychology. Kenny 2510 at 4pm. Call 228-5798.

Grad Centre Video Nights

 When Harry Met Sally; Something Wild. Graduate Student Centre Fireside Lounge at 6:30pm. Call 228-3203.

TUESDAY, FEB. 12

Medical Genetics Seminar

Modulation Of Bovine Papillomavirus DNA Induced Transformation By Retinoids And Tumour Promoters. Dr. Siu Sing Tsang, Cancer Epidemiology Unit, BC Cancer Research Centre. IRC #1 at 8:30am. Coffee at 8:15am. Call 228-5311.

Computer Services Hands-On

MS-Windows-Level 1. John Martell. Computer Sciences Annex Micro2 from 9am-12noon. Call 228-3941.

Botany Seminar

Populational Variation Patterns In North American Menziesia (Encaceae). Tom Wells, Ph.D. candidate, Botany, UBC. BioSciences 2000 at 12:30pm. Call 228-2133.

Law Lecture/Discussion

Native Law In Seventeenth Century Canada: Evidence And Substance. Dr. LeLloyd Guth. Curtis 101 at 12:30pm. Call 228-6882.

Lectures In Modern Chemistry

Nitride-Bridged Transitional-Metal Compounds And Reactions At Metal-Bound Nitrogen Atoms. Dr. Nancy Doherty, Chemistry, U. of California, Irvine. Chemistry B250 at 1pm. Refreshments from 12:40pm. Call 228-3266.

Neuroscience Discussion Group

Basic Fibroblast Growth Factor Induces Retinal Regeneration In Vivo. Dr. Martin Hollenberg, Dean, Medicine, UBC. University Hospital, UBC Site G279 at 4pm. Call 228-2330.

Interfaith Symposium

 Theological Dilemma: The Jewishness Of Jesus And The Anti-Jewishness Of The Church. William Nicholls. St. Mark's College from 7:30-9pm. Call 224-3311.

WEDNESDAY, FEB. 13

Forestry Seminar

Role Of Ecological Research In Implementing Reforestation In British Columbia. Ms. Caroline Caza and Mr. John Karakatsoulis, both Forest Sciences, UBC. MacMillan 166 from 12:30-1:30pm. Free admission. Call 228-2507.

Microbiology Seminar

 BrefeldinA Arrests The Maturation And Egress Of HSV-1. Peter Cheung, Microbiology, UBC. Westbrook 201 from 12:30-1:30pm. Call 228-6648.

Computer Services Micro Lunch

The MacIntosh Way (video presentation). Computer Sciences 460 from 12:30-1:30pm. Free admission. Call 228-3941.

Wednesday Noon-Hour Series

 Festival Players. Arthur Polson, violin; Gene Ramsbottom, clarinet; Ian Hampton, violoncello; Bernard Duerksen, piano. Admission: \$2 at the door. Music Recital Hall at 12:30pm. Call 228-3113.

President's Lecture In Fine Arts

Public Slide Lecture: The Prints Of J.C. Heywood-Prominent Canadian Print Artist. Professor Carl Heywood, Art, Queens U. From the Committee On Lectures. Lasserre 104 from 2:30-5:30pm. Call 228-5753/3462.

Geography Colloquium

Intentional Actions, Unintentional Geographies: Examples From Montreal And Quebec City. Dr. Paul Villeneuve, Geog., Laval U., Quebec City. Geography 201 at 3:30pm. Call 228-3268.

Institute Of Health Promotion Research Seminar

 Setting Priorities For Health Promotion Research. Dr. Lawrence Green, Director, Health Promotion Program, Kaiser Family Foundation, CA. Faculty Club Salon B at 3:30pm. Call 228-2258.

Applied Mathematics Seminar

The Wigner-Poisson Problem. Dr. Peter Markowich, Mathematics, Purdue U., West Lafayette, Indiana. Math 229 at 3:45pm. Call 228-4584.

Resource Ecology Seminar

The Ecological Meaning Of Sustainable Development. Bill Rees, Community Planning, UBC. BioSciences 2449 at 4:30pm. Call 228-4329.

THURSDAY, FEB. 14

President's Seminar In Fine Arts

Viewing And Discussion Of A Portfolio Of Heywoods' Prints. Professor Carl Heywood, Art, Queen's U. From the Committee On Lectures. 1987 West Mall Hut M-22 from 9:30-11am. Call 228-5753/3462.

Pharmacology Seminar

Role Of Protein Phosphorylation In Insulin Action. Dr. Roger W. Brownsey, Biochemistry, UBC. IRC #1 from 11:30am-12:30pm. Call 228-2575.

Computer Services Quickstart

Producing A Paper With Word Perfect. Eldon Wong. Fee: \$7.50. Computer Sciences Annex Micro2 from 12:30-1:30pm. Call 228-3941.

Biomedical Research Seminar

 Orphan Steroid Hormone Receptors. Dr. Greg Bondy, Pulmonary Research Lab, St. Paul's Hospital. Biomedical Research Centre Seminar Room at 12:30pm. Call 228-7810.

UBC Contemporary Players

Stephen Chatman And Geoffrey Michaels, directors. Music Recital Hall at 12:30pm. Free admission. Call 228-3113.

Students For Forestry Awareness Seminar

Environmental And Professional Ethics. Dr. Michael Macdonald And Dr. Earl Winkler, Applied Ethics, UBC. MacMillan 166 at 12:30pm. Call 228-5724.

Physics Colloquium

The MIAMI Model Of AIDS Pathogenesis. Geoff Hoffmann, Physics, UBC. Hennings 201 at 4pm. Call 228-3853.

Biotechnology Laboratory Seminar

 Foreign Gene Expression In The Yeasts Saccharomyces And Pichia: Production Of Subunit Vaccines. Dr. Michael A. Romanos, Wellcome Research Labs, Langley Court, Beckenham, Kent, UK. IRC #3 at 4pm. Call Dr. Michael Smith at 228-4838.

FRIDAY, FEB. 15

Obstetrics/Gynecology Grand Rounds

Immunological Benefits Of Breast Feeding. Janet Joneja, Ph.D. and Carolyn Iker, R.N. University Hospital, Shaughnessy Site D308 at 8am. Call 875-2171.

Computer Services Hands-On

MS-Windows-Level 1. John Martell. Computer Sciences Annex Micro2 from 9am-12noon. Call 228-3941.

Paediatrics Grand Rounds

Celiac Disease-Report From The National Survey. A.G.F. Davidson, Professor (Paediatric Gastroenterologist), Biochemical Diseases Clinic, Paeds., UBC. G.F. Strong Rehab. Centre Auditorium at 9am. Call 875-2118.

UBC Percussion Ensemble

John Rudolph, director. Music Recital Hall at 12:30pm. Call 228-3113.

Fisheries/Aquatic Science Seminar

Response Of Juvenile Sockeye Salmon To Changes In Production And Community Structure Of British Columbia Coastal Lakes. Kim Hyatt, Pacific Biological Station. BioSciences 2361. Call 228-4329.

Chemical Engineering Weekly Seminar

Dual Control Of Chip Refiner Motor Load. Mr. B. Allison, Chem. Eng., UBC. ChemEngineering 206 at 3:30pm. Call 228-3238.

Economics Departmental Seminar

Topic To Be Announced. Michael Jerison, State U. of New York, Albany. Host: Prof. C. Blackorby. Brock 351 from 4:5-5:30pm. Call 228-2876.

Samuel Beckett Repertory

Company and Breath. Saint Mark's College at 8:15pm. Tickets \$5. For reservations call 224-3311.

SATURDAY, FEB. 16

Vancouver Institute Lecture

 Mozart's Genius: A Pianist's Perspective. Jane Coop, Professor of Piano/Chamber Music, UBC. Woodward IRC #2 at 8:15pm. Call 228-5675.

UBC Child Study Centre Lectures/Workshops

From the Series. Multicultural Education: Beginnings And Beyond. Ruth Fahlman, Vancouver Education. UBC Child Study Centre Activity Room, 2881 Acadia Rd., from 9:30am-12noon. Registration \$20 at the door. For reservations call Tara Fisher at 228-2013.

Samuel Beckett Repertory

 Happy Days. Saint Mark's College at 2pm. Tickets \$5. For reservations call 224-3311.

Children's Story Hour at MOA

 African Stories To Tell And Objects To See for children ages 3-6: Sengalese Stories with David Thiaw, drummer and story-teller. Children must be accompanied by an adult. Museum of Anthropology Gallery 9 from 11 am-noon. Call 228-5087.

SUNDAY, FEB. 17

Samuel Beckett Repertory

Company and Breath. Saint Mark's College at 8:15pm. Tickets \$5. For reservations call 224-3311.

MONDAY, FEB. 18

Paediatrics Research Seminar

Series 1990/91. The Value Of Telling Parents That Their Smoke Will Aggravate Their Child's Asthma. Dr. Andrew Murray, Paediatrics Allergy Clinic, Children's Hospital. University Hospital, Shaughnessy Site D308 at 12noon. Call Dr. Josef Skala at 875-2492.

Biochemistry Seminar

Expression And Characterization Of Apolipoprotein (a) In Mammalian Cells. Dr. M. Koschinsky, Genentech Inc., San Francisco. IRC #4 at 3:45. Call 228-3027.

Applied Mathematics Seminar

Discrete-Time Growth-Dispersion Models. Dr. Mark Kot, Applied Mathematics, U. of Washington, Seattle. Math 229 at 3:45pm. Call 228-4584.

Mechanical Engineering Masters' Seminars

The Mechanics Of Grasping And Handling. Michael Sliba. Unsteady Boundary Layers. Robert Holland. Both speakers, M.A.Sc. students, Mech. Eng., UBC. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Call 228-6200.

Astronomy Seminar

Darkness Revisited. Dr. George Lake, Astronomy, U. of Washington. Geophysics/Astronomy 260 at 4:00pm. Coffee at 3:30pm. Call H. Richer at 228-4134/2267.

Asian Studies Lecture

 Buddhist Narrative Literature. Prof. Michael Hahn, Philipps U., Marburg, Germany. Free admission. Asian Centre 604 at 4:30pm. Call 228-3881.

Grad Centre Video Nights

Two videos: Men (Germany) and Moscow Does Not Believe In Tears (Russian). Graduate Student Centre Fireside Lounge at 6:30pm. Call 228-3203.

UBC At The Orpheum

UBC Symphony Orchestra and Vancouver Youth Symphony Orchestra Gala Concert features performances of Tchaikovsky's Manfred Symphony and Mozart's Piano Concerto No. 27 in B-flat major. Fawzia Pirbhai, soloist. Tickets from Ticketmaster: Adults, \$8; students and seniors, \$4. The Orpheum Theatre at 8:00pm. Call 228-3113.

February 10 – February 23

TUESDAY, FEB. 19

Financial Planning Noon-Hour Series

Planning For Financial Independence: Understanding The Process And Benefits. Doug Hodgins, Hodgins, Leard, Proteau & Associates Ltd. A joint presentation of the UBC Faculty Association and the Centre for Continuing Education. Henry Angus 104 from 12:30-1:20pm. Call 222-5270.

Medical Genetics Seminar

HLRP-A Receptor Like Protein Tyrosin Phosphatase. Dr. Frank Jirik, Biomedical Research Centre, UBC. IRC #1 at 8:30am. Coffee at 8:15am. Call 228-5311.

Lectures In Modern Chemistry

Atoms In Molecules-A Quantum Theory. Dr. Richard Bader, Chem., McMaster U. Chemistry B250 at 1:00pm. Refreshments at 12:40pm. Call 228-3266.

Botany Seminar

Enzymes Involved In Cell Wall Polysaccharide Synthesis. Dr. Peter Ray, Biology, Stanford U. BioSciences 2000 at 12:30pm. Call 228-2133.

Geography Colloquium

Taking Los Angeles Seriously: Time And Space In A Postmodern City. Dr. Michael Dear, Geog., U. of Southern California. Geography 200 at 3:30pm. Call 228-3268.

Interfaith Symposium

The Change In Jewish-Christian Relations Since 1945. Dr. John Conway, History, UBC. St. Mark's College from 7:30-9pm. Call 224-3311.

WEDNESDAY, FEB. 20

Computer Services Micro Lunch

Electronic Mail At UBC. Dennis O'Reilly. Free admission. Computer Sciences 460 from 12:30-1:30pm. Call 228-3941.

Language Education Seminar

The Development And Validation Of A Holistic Marking Scale For Use With Province-Wide Grade-Twelve Essay Examination In Literature. Dr. Joe Belanger, Language Ed., UBC. Ponderosa Annex E-105 from 12:30-1:30pm. Call 228-5234/5479 or for messages, 228-5788.

Wednesday Noon-Hour Series

Wesley Foster, clarinet; Karen Haley Foster, viola; Linda Lee Thomas, piano. Admission, \$2 at the door. Music Recital Hall at 12:30pm. Call 228-3113.

Asian Studies Lecture

Form And Function Of Buddhist Epistles. Prof. Michael Hahn, Philipps U., Marburg, Germany. Free admission. Buchanan B334 at 4:30pm. Call 228-3881.

Forestry Seminar

Some Coniferous Seeding Physiology Research At UBC And Implications For Reforestation. Prof. Denis P. Lavender, Head, Forest Sciences, UBC. MacMillan 166 from 12:30-1:30pm. Call 228-2507.

Resource Ecology Seminar

Parasites And Female Choice In Red Jungle Fowl. Marlene Zuk, U. of California, Riverside. BioSciences 2449 at 4:30pm. Call 228-4329.

Geophysics Seminar

Acoustical Scintillation Analysis: Oceanographic Applications Of A Technique From Radio Astronomy. Dr. David M. Farmer, Institute of Ocean Sciences, Sidney, B.C. Geophysics/Astronomy 260 at 4pm. Coffee from 3:45pm. Call 228-3100.

Microbiology Seminar Series

Xenopus Transcription Factor IIIA: A Protein That Gives Nucleic Acids The Finger. Dr. Paul Romaniuk, Biochemistry/Microbiol., U. of Victoria. Wesbrook 201 from 12:30-1:30pm. Call 228-6648.

Nursing Public Lecture

The Web Of Long Term Care: Can We Dissect It? Visiting Scholar: Margaret Dimond, Asst. Dean for Research, U. of Washington College of Nursing. IRC #6 at 8pm. Call 228-7463.

THURSDAY, FEB. 21

MAGIC Educational Opportunity

By satellite, second in the The 1991 Apple Educational TV Series: Macintosh Solutions For The Administrator. Detwiller Pavilion Theatre from 1-2pm. Call Ed Froese at 228-4275.

Computer Services Quickstart

SAS For Students (Statistical Software). Frank Ho. Fee: \$7.50. Computer Sciences Annex Micro2 from 12:30-1:30pm. Call 228-3941.

Physics Colloquium

Mid-Term Break. No Colloquium. Call 228-3853.

Pharmacology Seminar

Are Sites Other Than C2+ Channels Important For Dihydropyridine-Mediated Vasodilatation. Dr. Christopher Trigg, Pharmacology/Therapeutics, U. of Calgary. IRC #1 from 11:30am-12:30pm. Call 228-2575.

Obstetrics/Gynecology Grand Rounds

Brain Injury In The Premature Infant. Dr. Alan Hill, Pediatrics, Children's Hospital. University Hospital, Shaughnessy Site D308 at 8am. Call 875-2171.

Paediatrics Grand Rounds

Medical Informatics. Dr. J.R. Mohr, School of Health Information Science, U. of Victoria. G.F. Strong Rehab. Center Auditorium at 9am. Call 875-2118.

Chemical Engineering Weekly Seminar

Electrochemical Opportunities In Bleaching And Brightening Wood. Prof. Colin Oloman, Chem. Eng., UBC. ChemEngineering 206 at 3:30pm. Call 228-3238.

Economics Departmental Seminar

To Be Announced. Frank Fisher, MIT. Host: Prof. William Schworm. Brock 351 from 4-5:30pm. Call 228-2876.

SATURDAY, FEB. 23

Vancouver Institute Lecture

Architecture And The Spirit Of The City. Prof. Josef Paul Kleihues, Dip-Ing. Kleihues Architect, Berlin. IRC #2 at 8:15pm. Call 228-5675.

Children's Story Hour At MOA

African Stories To Tell And Objects To See, for children aged 3-6: Stories from Kenya with performer and storyteller Gabriella Klein. Children must be accompanied by an adult. Museum of Anthropology Gallery 9 from 11am-12noon. Call 228-5087.

NOTICES

Graduation Application

All students who expect to graduate this May (spring), should complete Graduation Application cards, to be returned to the Registrar's Office by Feb. 15. Students who do not apply will not be considered for graduation.

Fulbright Scholarships Available

Fulbright Awards' application packages for Canadian scholars seeking visiting appointments to the U.S. for the 1991/92 academic year are now available from the UBC Research Services/Industry Liaison Office. Submissions must be received by the Foundation for Educational Exchange in Ottawa by Feb. 28. Call 228-8595.

Office For Women Students' Workshops

Daughters Of Immigrants. Do you feel as if you have roots in two different cultures? Does it seem as if a part of you is left out or not understood no matter what group you're in? Four sessions ongoing, free admission, pre-registration required. Feb. 12, 19, 26 and March 5. Brock 223 from 12:30-2:20pm. Call 228-2415.

Basic Assertiveness. An introduction to basic communication skills. Participants will be given the opportunity to learn more effective methods of expressing themselves and their needs in a wide range of social settings-from classrooms to relationships. Three sessions, free admission, pre-registration required. Feb. 12, 19, 26. Brock 204D from 12:30-2:20pm. Call 228-2415.

Carpool Matching

Send both your home and work addresses and both telephone numbers; your working hours; whether you have a car and if you smoke while driving, to Karen Pope, Dean's Office, Applied Science. When a carpool match is found, the information will be sent to you. Call 228-0870.

UBC Speakers Bureau

Would your group like to know more about topics ranging from Endangered Species to Small Boat Safety? More than 500 topics to choose from; most speakers are available free of charge. Call 228-6167, Mon., Tue., Fri., 8:30am-12noon.

Museum of Anthropology

Exhibition extended: Portraits of BC Native leaders, chiefs, chief counsellors and elders by Kwaguitl photographer David Neel. Now open in the new West Wing: The Koerner Ceramics Gallery. Closed Monday. Call 228-5087.

Executive Programmes

One/two day business seminars. Feb. 10-22 series includes: Maintenance Management, \$825. Pricing for Profit, \$475. Inventory Management, \$595. Implementing Organizational Change, \$875. Financial Statement Analysis, \$550. Competitive Strategies for Hard Times, \$875. Call 224-8400.

English Language Institute

Professional Development Series For Language Teachers. February workshops: Generating Student Talk in the Language Class, Computer-Assisted Language Learning, and Teaching English in Japan. Tuesday evenings from 7-9pm. Call 222-5208.

Psychology Step-Families Study

Married couples who have at least one child from a previous union living with them, are invited to participate in a study of stress and coping in step-families. Call Jennifer Campbell at 228-3805.

Adult Child Separation/Divorce Study

Volunteers needed. The study will explore how mothers cope with their adult child's separation/divorce. Participants will be required to anonymously complete a mailed questionnaire. Call Allison Krause, Counselling Psychology, at 946-7803.

Sports Medicine Study

Volunteers, female, age 18-35 needed to participate in study on Exercise and the Menstrual Cycle. Fit, healthy, having normal menstrual cycles and not currently on oral contraceptives. Physiological testing provided. Allan McGavin Sports Med. Centre, John Owen Pavilion, UBC. Call Dr. Connie Lebrun 228-4045 or 980-6355.

School of Nursing Study

Volunteers needed for study of couples/family adjustment to a breast cancer diagnosis. Women and partners. Involves interviews/response to questionnaire. Call Dr. Ann Hilton at 228-7498.

School of Nursing Study

Couples are needed who are both in paid employment (over 20 hrs/wk.) and have at least one child under eighteen months of age. Involves filling out a questionnaire twice (10 minutes each time). Call Wendy Hall at 228-7447.

Psychiatry Depression Study

Participants needed for research study using new antidepressant medication. Depression sufferers, 18-65 years. Call Doug Keller at 228-7318.

Psychiatry Personality Questionnaire Study

Volunteers needed to complete two 90-minute sessions. Stipend, \$20. Call Janice at 228-7895/7057.

Counselling Psychology Retirement Preparation

Volunteers interested in planning their retirement needed for research project. Discussion on related issues included. Call Sara Comish at 228-5345.

Diabetic Clinical Study

Diabetics who have painful neuropathy affecting the legs needed to volunteer for 14-week trial of an investigational new drug. Call Dr. Donald Studney, Medicine, University Hospital, UBC Site at 228-7142.

Daily Rhythms Study

Volunteers needed to keep a daily journal (average 5 min. daily) for 4 months, noting patterns in physical/social experiences. Call Jessica McFarlane at 228-5121.

Psychiatry PMS Study

University Hospital, Shaughnessy site. Volunteers needed for a study of an investigational medication to treat Pre Menstrual Syndrome. Call Dr. D. Carter at 228-7318.

Hypertension in Pregnancy Study

Pregnant women, concerned about their blood pressure, are invited to participate. The study compares relaxation training with standard medical treatment (own physician). Call Dr. Wolfgang Linden at 228-4156.

Post Polio Study

Persons with polio needed for functional assessment and possible training programs. Call Elizabeth Dean, Ph.D., School of Rehabilitation Medicine, 228-7392.

Multiple Sclerosis Study

Persons with mild to moderately severe MS needed for study on exercise responses. Call Elizabeth Dean, Ph.D., School of Rehab. Medicine, 228-7392.

Exercise In Asthma Study
Volunteers with exercise-induced asthma needed for 2-part study (30 min. each). No medications or injections. Call Dr. Phil Robinson at Pulmonary Research Laboratory, St. Paul's Hospital at 682-2344, extension 2259.

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. Forms for appointments available in 210. Ponderosa Annex C-210. Call 228-4037.

Surplus Equipment Recycling Facility

All surplus items. Every Wednesday, 12-3pm. Task Force Bldg., 2352 Health Sciences Mall. Call 228-2813.

Sexual Harassment Office

Two advisors are available to discuss questions and concerns on the subject. They are prepared to help any member of the UBC community who is being sexually harassed to find a satisfactory resolution. Call Margaretha Hoek or Jon Shapiro at 228-6353.

Volunteering

To find an interesting and challenging volunteer job, get in touch with Volunteer Connections, Student Counselling and Resources Centre, Brock 200. Call 228-3811.

Narcotics Anonymous Meetings

Every Tuesday (including holidays) from 12:30-2pm, University Hospital, UBC Site, Room 311 (through Lab Medicine from Main Entrance). Call 873-1018 (24-hour Help Line).

Duplicate Bridge

Informal game. All welcome. Admission \$2 per person (includes coffee/snacks). Faculty Club every Wednesday at 7pm. Call 228-4865.

Fitness Appraisal

Physical Education and Recreation through the John M. Buchanan Fitness and Research Centre, administers a physical fitness assessment program. Students \$25, others \$30. Call 228-4356.

Neville Scarfe Children's Garden

Located west of the Education Building. Free admission. Open year round. Families interested in planting, weeding or watering the garden, call Gary Pennington at 228-6386 or Jo-Anne Naslund at 434-1081.

Botanical Garden

Open every day from 10am-3pm until Mar. 15/91. Free admission. Call 228-3928.

Nitobe Garden

Open Monday to Friday, 10am-3pm until Mar. 15/91. Free admission. Call 228-3928.

Advertise in UBC Reports

Deadline for paid advertisements for the Feb. 21 issue is 4 p.m. Feb. 12.

For information, phone 228-3131

To place an ad, phone 228-4775

Publication emphasizes clinical practice

Sport medicine journal breaks new ground

By ABE HEFTER

A UBC professor of sport medicine and rehabilitation has helped move Canada into the forefront of sport medicine.

The Canadian Academy of Sport Medicine has launched a unique journal that addresses clinical issues pertinent to sport medicine. It is spearheaded by Dr. Gord Matheson, the journal's Editor-in-Chief.

"The Clinical Journal of Sport Medicine was born out of the desire by the Canadian Academy of Sport Medi-

cine to supplement the growing academic foundation for the clinical practice of sport medicine," said Matheson.

"Many existing sport medicine journals are science or performance oriented. Our journal reflects the growing need for the publication of research articles relevant to the clinical practice of sport medicine."

That need is also based on an awareness that the discipline has progressed from the stereotypical "jock mentality" that used to pervade sport medi-

cine.

"Those days have given way to the realization that large segments of the population are physically active and are in need of top-notch care: They need care not only for injuries, but also for the diagnosis and treatment of medical conditions resulting from physical exercise."

Matheson said in medicine, it's the quality of work you do and the service you deliver that's important — not who you're providing it to.

Matheson should know. He's the

Vancouver Canucks' team doctor and spends up to seven hours a week keeping team players happy — and healthy. He's proud to be associated with the N.H.L. team, but realizes the Canucks are no more or no less important than any of the other physically active people that need treatment.

Matheson has assembled a who's who of international sport medicine experts on the journal's editorial board, including Dr. Doug Clement and Dr. Jack Taunton, co-directors of UBC's Allan McGavin Sports Medicine

Clinic.

"Our first issue, which has just been published, includes articles by Dr. Robert Jackson, who introduced arthroscopic surgery to North America, and Dr. Karl Wasserman, who helped pioneer clinical exercise testing in heart and lung patients," said Matheson.

"We believe we have come up with a sport medicine journal that is unique in North America," he added.

The Clinical Journal of Sport Medicine is published by Raven Press.



Dr. Doug Clement and Dr. Gordon Matheson review a patient's x-rays during a diagnosis at the Allan McGavin Sports Medicine Centre.

Earthquake would lead to tsunami waves: UBC study

A severe earthquake off the B.C. coast would produce tsunami waves ranging in height from one to 15 metres, a study by UBC researchers has found.

In an article in a recent issue of

Science magazine, the researchers use mathematical models to predict the hazards posed by a tsunami generated by a hypothetical earthquake of 8.5 on the Richter Scale.

Seismologists predict the region is overdue for such a quake. Last year's San Francisco quake, in comparison, measured magnitude 6.9 and caused widespread damage, killing nearly 100 people

"Geophysicists say there is evidence earthquakes of magnitude 8.5 have occurred in the past in this region, with intervals of maybe 200 to 500 years between them," said Paul Leblond, head of oceanography and co-author of the ocean.

Leblond and his colleagues found that waves generated by such a quake would be one-metre high in the protected waters of Georgia Strait and Puget Sound, five metres on the outer coast of Vancouver Island, and up to 15 metres in some areas, such as the Alberni inlet.

A tsunami is not the tall, breaking wave of popular imagination, Leblond said, but is more like a flood, with water levels rising to their peak over a period of 1 1/2 hours. They are caused by earthquakes, volcanic eruptions and landslides beneath the ocean's surface.

The study is the first detailed assessment of the tsunami risk off the B.C. coast. It originated as a master's thesis by Max Ng, who co-authored the Science article with Leblond and Tad Murty, a honorary research associate at UBC who is based at the Institute of Ocean Sciences in Sidney, B.C.

Based on the advice of seismologists, the tsunami researchers assumed a quake of 8.5 would trigger the wave by heaving the ocean floor up five

metres in an area where the vast oceanic plates rub against each other, about 200 kilometres off the coast of Vancouver Island.

The protected waters of heavily populated Georgia Strait and Puget Sound would be spared the brunt of the tsunami, but even a wave of one metre could pose a hazard to low-lying areas.

"If a one-metre tsunami occurred on top of a high spring tide, then the situation begins to get very interesting," said Leblond. "It could cause a lot of damage."

In some areas of the coast, such as the long, narrow Alberni Inlet on Vancouver Island, a resonance effect would push the wave as high as 15 metres, the study warns.

Local residents are well acquainted with the destructive power of tsunamis. One generated by the Alaska earthquake in 1964 caused widespread flooding and several millions of dollars of property damage in the Port Alberni area.

But Leblond pointed out that more study would be needed to estimate the exact levels of flooding in different areas.

"This is not the end of the story. Any model such as this is limited," he said. "We don't know what local, small-scale effects may be. We can't say exactly what's going to happen in Bamfield, for example."

The actual level of flooding at specific sites may be well below predicted wave heights, depending on factors such as topography. The wave's size would also be influenced by details of the shape of the ocean bottom and coastline that were unresolved in the study, Leblond said.

Milroy at helm of UBC Press

By GAVIN WILSON

UBC Press Director Peter Milroy is charting a new course for the university's academic publishers.

"It's like trying to turn a ship, you can't make a sharp turn, you have to do it gradually," he said.

Before Milroy took the helm five months ago, UBC Press was sailing off-course.

In 1989, a president's review committee concluded that the publisher was "in crisis." They recommended two options: shut down UBC Press within a year or bring in new management to revive it.

Milroy, hired last September, has 20 years of experience in Canadian publishing with companies such as Heinemann, McClelland and Stewart and Methuen in positions that cover the spectrum of marketing, editorial and senior administration.

Many of the problems UBC Press faces, he said, are common to other academic presses: high overhead in relation to sales, poor economies of scale, expensive marketing, distribution and, a commitment to scholarly works which, by their nature, sell modestly.

But it had other problems as well. Too few books were published each year to recoup the press's overhead, the list of titles was too diverse to market effectively, and management information and graphic systems had fallen behind. Worst of all, despite heavy subsidies the press was losing money rapidly.

Milroy said one of his most important goals is to bring some focus to the UBC Press book list, which he believes was too eclectic in the past. A list of books in print show titles rang-

ing from the early Greek poets to land tenure in Vanuatu and a retrospective of the Royal Canadian Navy.

"My feeling is that we should pare ourselves back to our natural strengths," he said. "A strong regional focus is one of the main elements of that."

This means Canadian history, poli-

a greater marketing strategy that Milroy is putting into place. He believes this is essential to the continued success of the campus publisher. However, he also recognizes the unique role UBC Press plays.

"Our mandate is to publish scholarship. It does the university community very little good if we publish worthy

books that sit in a warehouse. Our purpose is to communicate the results of academic research to scholars, but also to a wider community of students and readers outside academia."

Milroy said UBC Press cannot

publish every worthwhile book written by a UBC academic, nor is it in the interest of either party to attempt to do so, something he feels was not made clear in the past. Neither is it their role to publish the proceedings of every conference held on campus.

"We can't be all things to all people. This is not just a convenient place on campus to go if you want a book published," he said.

Milroy explained that in order to be of value to the authors that they publish, UBC Press must be able to reach markets that other publishers can't, selecting what they take on based on their strengths as well as the worth of the work.

Milroy and his colleague Jean Wilson, UBC Press's executive editor, encourage scholars to bring their publication plans to the press. They can help authors select an appropriate publisher and present their work in an effective manner. For departments that have developed their own publications for sale, the press can provide services such as billing, shipping and warehousing.



UBC Press Director Peter Milroy

Photo by Media Services

tics, society and women's studies, with a central focus on the west and, above all, B.C. They will also emphasize the environment of the region in field guides and books on geography, ecology, forestry and fisheries.

Perhaps the press's greatest success has come from books on Canada's native peoples. Two such books, Aboriginal Peoples and Politics, by UBC political scientist Paul Tennant, and Native Writers and Canadian Writing, edited by English professor Bill New, were published last fall and have already been reprinted.

UBC Press will also focus its Pacific Rim titles, looking for titles in fields such as modern history, sociology and politics of China, Japan and Australia, particularly where there is special relevance to Canada.

The new focus means a move away from titles in literary criticism and the humanities. Sales of such books are not large, and given the press's financial situation, Milroy says, they can't publish them. Not yet.

This streamlined book list is part of

Friends of Chamber Music

present

MUIR QUARTET

Winners of the Gramophone's 1987
"Chamber Music Record of the Year Award"

playing

Schubert Op168; Bartok #3:
Mendelssohn Op44/2

Vancouver Playhouse • 8:00 p.m., Tuesday, February 19th, 1991
Tickets \$20 • Students \$10. Available from TicketMaster or at the door.

People

Dr. Patricia Baird appointed vice-president of CIAR

Dr. Patricia Baird, professor of Medical Genetics, has been appointed a vice-president of the Canadian Institute for Advanced Research (CIAR) for a five-year term.



Baird

Incorporated in 1981, CIAR is a private, non-profit corporation established to focus intellectual and financial resources on leading-edge research, emerging technologies and societies' adaptation to change.

Research areas of the Institute include artificial intelligence and robotics, molecular evolution, cosmology, population health, superconductivity and economic growth.

The Institute's programs in these areas involve more than 100 researchers based at 45 institutions worldwide.

Currently, Dr. Baird is chairing the Royal Commission on New Reproductive Technologies. She is also co-chair of the 1991 National Forum of Science and Technology Councils.

Dr. Paul Robertson, Dean of the Faculty of Dentistry and Coordinator of Health Sciences, has been appointed a member of the Food and Drug Administration (FDA) of the United States Department of Health and Human Services.

With his expertise in clinical trials of treatment methods for oral disease, Dr. Robertson will be involved in reviews of drugs and implements for the FDA's Center for Devices and Radiological Health.

The FDA is responsible for reviewing the safety and efficacy of all drugs and medical products used in the U.S. Dr. Robertson's four-year appointment is effective immediately.

An exhibit by the UBC Botanical Garden and the B.C. Nursery Trades Association recently received the top prize at Canada's major nursery and landscape trade show in Hamilton, Ont.

Botanical Garden director **Bruce Macdonald** designed the award-winning landscape exhibit in cooperation with Geoff Schwyn and Gordon Papke of the B.C. Nursery Trades Association. It featured a native plant landscape with plants the Botanical Garden has introduced to the commercial

market.

Macdonald said the annual trade show, which draws buyers from across North America, provides a unique opportunity for the garden to promote its new plants.

Local nurseries have sold more than four million plants of species originally introduced by the Botanical Garden.



Macdonald

The Vancouver Junior Board of Trade/Jaycees has named **Bob Wyman** as one of two winners of their 1990 Award of Excellence.

Wyman was named for his work as chairman of UBC's World of Opportunity Campaign. The award honors excellence in the business and public service communities.

The vice chairman and director of RBC Dominion Securities Inc., Wyman has served as a vital link to the downtown business community

during the campaign, UBC's first major fundraising drive in 20 years.

The campaign has exceeded all expectations, meeting its original goal of \$132 million more than a year ago. Currently, the campaign total is close to \$180 million in new endowment and building funds. It includes gifts from individuals, foundations and corporate donors along with matching gifts from the government of B.C.

Wyman has a long record of service with the university. He was Chancellor from 1984-87 and formerly sat on the Board of Governors. A 1956 commerce graduate, he received an honorary degree from the university in 1987.

The other Jaycees award winner is Jim Cleave, president and C.E.O. of the Hongkong Bank of Canada and also a UBC graduate. The awards presentation will be made Mar. 2 at the Hotel Vancouver.



Wyman

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Students gain real life business experience

By ABE HEFTER

UBC is successfully attracting the attention of the Canadian business world thanks to hands-on programs like the Portfolio Management Society.

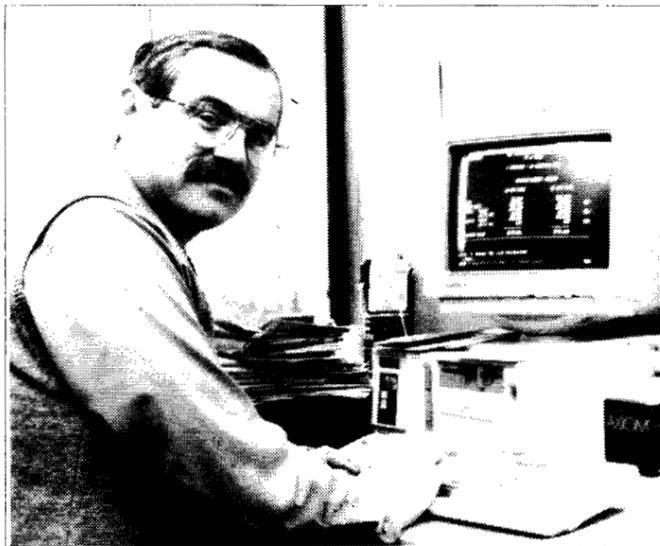
"We are now getting word out that UBC can offer the business community top-flight students thanks to first-class programs," said Robert Heinkel of the Finance Division of the Faculty of Commerce and Business Administration.

Since 1985, the Portfolio Management Society has offered UBC Commerce students a chance to apply their finance education to real investment problems.

The two-year program is offered to a small group of UBC finance students during years three and four of their Commerce program. These students are responsible for managing an endowment which is donated by the financial community. The endowment is currently valued at \$700,000 — double its 1985 value. And just like the real business world, the bottom line counts. The earnings from the endowment support the program's activities.

"The key is not to lose money," said Heinkel. "Most of the earnings go right back into the program and are spent on educational activities. The money can't be accumulated."

Heinkel said the university wants the students of today to apply the insights and observations of modern fi-



Robert Heinkel is getting the word out to the business community that UBC has top-flight students thanks to first-class programs.

ancial economics to real investment management and to become leaders in the investment practices of the future.

"This program works because the investment community puts so much into it and wants it to work," said Heinkel.

"In year one of the program, students are sent to Toronto for a four-month summer period to work in the investment community. In year two, their summers are spent working in the Vancouver business community, where they have access to 17 mentors to advise them along the way," he added.

Commerce Dean Peter Lusztig said these investment professionals have offered to meet with the students at any time to discuss investment strategies, current trends and other matters of interest to the students.

"Members of the financial community put a tremendous amount of time and energy into the program by offering workshops and seminars for stu-

dents both in Vancouver and Toronto," said Lusztig. They also sit on boards to which the students report."

"The strong demand for our graduates by the investment community is evidence of the success of our program," added the Dean.

Commerce student Kenneth Costa of Vancouver has been one of the portfolio's fund managers since February of 1989. He said the experience gained as the result of his financial responsibilities

helped him land a job with the Toronto-Dominion Bank. However, Costa, who will assume his new duties in Toronto upon graduation this year, warned the program is no free ride to the big time.

"It's been great for me, but there's a lot of hard work involved," said Costa. "Managing someone else's money is much more difficult than managing your own. When you lose someone else's money, they want to know about it."

The Portfolio Management Society is just one way UBC has been able to improve communication with the business community, according to Heinkel.

"We have other initiatives, like the Bureau of Asset Management Research, which is an attempt to get the business community and the finance and the real estate divisions at the university to work together."

"There's a lot more we can do for business leaders," added Heinkel, "if we can get their attention."



Photo by Media Services
Christopher Lee (left) and Diana Prosser, Outreach volunteers trained in sex-education counselling, were on hand for the safer sex program.

Campus safer sex program promotes responsible attitudes among students

By CONNIE FILLETTI

A Canada-wide survey of highschool and post-secondary education students has concluded that despite their knowledge about AIDS, young Canadians continue to act in ways that may put them at risk for becoming HIV infected.

The report entitled Canada, Youth and AIDS Study, further determined that education about AIDS and other sexually transmitted diseases (STDs) has been largely ineffective.

It's a problem UBC Student Health Outreach Nurse Margaret Johnston has been aware of since joining the university in 1987. That's why she has coordinated a safer sex education program for UBC students each year for the past three years.

"We drew large numbers of students that first year because AIDS was

prominent in the media," said Johnston.

Dividing her time between the Student Health Services Clinic and the Student Counselling and Resources Centre gives Johnston direct insight into students' knowledge attitudes and behavior regarding AIDS and STDs.

She decided to focus on relationship skills, gender relations and responsibility as the themes for this year's safer sex program, which ran Jan. 28 to Jan. 30 in the SUB concourse.

"We are trying to promote a responsible attitude among students who are having sex," Johnston said.

"Sex involves a relationship and if sex is a new aspect between two people, so is the relationship. By stressing relationship skills, students may develop a more responsible attitude toward their sexual behavior."

Johnston added that the safer sex program also provides students with much needed access to information in a non-threatening, relaxed and familiar environment.

Several groups including Women and AIDS, the Student Counselling Resources Centre, the Office for Women

Students, the Sexual Harrassment Office and Planned Parenthood were on-site for this year's safer sex program.

"Students had the opportunity to watch AIDS videos, ask about our confidential HIV testing and STD checks, pick-up free condoms and listen to a former UBC medical graduate living with AIDS give his personal perspective on the disease as a physician and a patient," Johnston said.

A new feature of this year's safer sex program was sexploration, a board game designed to promote thoughtful discussion, factual learning and responsible decision making about sex, drugs and alcohol.

Johnston said the game is a fun way for students to learn important information they can draw upon to make knowledgeable and healthy decisions.

Although the safer sex program is coordinated as a special event, Johnston urged students to drop-in at the Student Health Services Clinic for information about AIDS and other STDs or birth control. The clinic is open Monday to Friday, and is located on the main floor of University Hospital, UBC site.

Campus postal codes revised

By CONNIE FILLETTI

UBC has completed two years of negotiations with Canada Post for a revised postal code and delivery system for the university.

Five new postal codes will be applied to a matching number of zones created from existing areas of campus. To help the affected units remember their zone, the last digit in the postal code will correspond to the zone number.

Units which fall into these zones will receive a new postal code. Although all affiliated and other associ-

ated units fall within the various zones, they are exempt and will retain their old postal codes.

"These units should continue to use their old postal code," said Keith Bowler, Director of Purchasing. "By using their old postal code, Canada Post will continue to sort and bag their mail, which will speed-up the delivery service. Otherwise, their mail gets added to the campus mail system."

Implementation of the new codes will begin immediately, and will continue through to Dec. 31, 1991 at which time the new codes should also be

applied to all new printing requests.

Bowler explained that a new system was necessary because the postal codes originally established for UBC were designed to enable sortation by code, a process which never materialized.

"In 1988, Canada Post suggested a single code for the university campus which we vigorously resisted," Bowler said. "Canada Post also wanted us to take over outside mail delivery to various affiliated areas to which we currently deliver campus mail."

Under the resulting agreement, Canada Post will sort by the five new zone codes and continue to sort and bag separately the affiliated units' mail. The Campus Mail Room will deliver both Canada Post and campus mail to affiliated units commencing May 1, 1991.

Currently UBC receives an average of 16,000 pieces of unsorted Canada Post mail in addition to approximately 8,000 pieces of campus mail daily.

John Howe, supervisor of the Campus Mail Room, said Canada Post has agreed to accept the old codes for at least 12 months.

He advised people on campus to notify their contacts of the change to their postal code as soon as possible, but foresees no problem for anyone receiving mail addressed to the old postal code until Dec. 31, 1991.

Louise Young, a Canada Post customer service representative, advised everyone to learn and use their new postal codes.

"The postal code is the key to total mechanized processing," explained Young. "If there is no code, the letter must be hand-sorted and postage paid at a higher, non-standard letter rate."

Howe said a new campus mail facility currently being constructed and scheduled for completion by early 1992 will also assist with the implementation of the five new postal codes.

"The new facility is being designed for sorting by zone and this should create a faster, more efficient mail service," Howe said.

Randy Howland of Media Services suggested that people hand-change the old postal code on any existing stationery stock used to the end of 1991. He added that using a small rubber stamp with the new code may save time.

Anyone requiring additional information about the revised postal code system may contact the Campus Mail Room at 228-2579.

The new codes apply as follows:

ZONE 1 V6T 1Z1

Area bounded by Main Mall, University Boulevard, Wesbrook Mall, Chancellor/NW Marine Drive including Cecil Green Park Road area.

ZONE 2 V6T 1Z2

Main Mall, University Boulevard, NW Marine Drive including Museum of Anthropology.

ZONE 3 V6T 1Z3

University Boulevard, East Mall, West 16th Avenue, Wesbrook Mall.

ZONE 4 V6T 1Z4

University Boulevard, East Mall, West 16th Avenue, Marine Drive including Botanical Garden Centre.

ZONE 5 V6T 1W5

Areas south of West 16th Avenue.

Affiliated and other associated units listed below will retain their existing codes.

1935 Lower Mall (Place Vanier) V6T 1X1
 2211 Wesbrook (University Hospital, UBC Site, Acute Care) V6T 2B5
 2211 Wesbrook (University Hospital, UBC Site - Extended Care) V6T 1Z9
 2211 Wesbrook (University Hospital, UBC Site - Psychiatric) V6T 2A1
 2525 West Mall (Totem) V6T 1W9
 2990 Wesbrook (RCMP) V6T 2B7
 2992 Wesbrook (Firehall) V6T 2B7
 3650 Wesbrook (BC Research) V6S 2L2
 3800 Wesbrook (Paprican) V6S 2A3
 4004 Wesbrook (Triumph) V6T 2A3
 5920 Iona (Carey Hall) V6T 1J6
 5935 Iona (St. Mark's College) V6T 1J7
 5959 Student Union Mall (Gage) V6T 1K2
 5961 Student Union Mall (UBC Conference Centre) V6T 2C9
 6000 Ion (Vancouver School of Theology) V6T 1L4
 6040 Iona (St. Andrew's College) V6T 1J6
 6050 Chancellor (Anglican College) V6T 1X3
 6565 NW Marine Drive (Norman Mackenzie House) V6T 1A7
 6640 NW Marine Drive (Fisheries) V6T 1X2
 6660 NW Marine Drive (Agriculture) V6T 1X2

Astronaut to speak at space workshop

By GAVIN WILSON

Researchers and business people interested in opportunities in the Canadian space program are invited to attend an upcoming UBC workshop called Engineering in Space.

"Our objective is to increase awareness of the Canadian space program and point out the advantages of becoming involved in it," said Karl Erdman, acting director of the Engineering Physics program.

"We'll provide a forum where students, researchers and industrialists can meet to examine what is happening locally on space-related activities."

The fair is hosted by Engineering Physics, a program within the Department of Physics, the Office of Research Services and Industry Liaison and the National Research Council's Industrial Research Assistance program.

Five keynote speakers will present papers on important issues in space research at the project fair, to be held at the Graduate Centre Ballroom March 7.

Canadian astronaut Bjarni Tryggvason will speak on space science and the astronaut program. As a member of the Canadian Space Agency, he is currently involved in developing and testing projects for the international space station which is scheduled for launch in 1995. He is a

1972 graduate of UBC's Engineering Physics program.

Donald Brooks is a joint Professor of Pathology and Chemistry at UBC whose experiments have flown on past space shuttle missions. He is a specialist in rheology of biological fluids.

Fred Weinberg is Professor of Metals and Materials Engineering at UBC with research interests in the solidification of metals. He is currently conducting experiments on the generation of metal foams in low gravity.

David Zimcik is a research scientist with the Canadian Space Agency who is interested in spacecraft materials and the effects of the space environment on structures and materials.

Peter Charlton is a SPAR Aerospace consultant advising on space policy and regional considerations.

The project fair will also feature displays of students' projects and seminars dealing with current technological subjects.

The Roy Nodwell prize to the winners of the 1990-91 competition for the best design project in the Engineering Physics Project Laboratory will also be presented.

The project fair is held each year to strengthen links between the university and industry in B.C. Past topics have included ocean engineering and new developments at TRIUMF.

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