



Two professors win Steacies

By GAVIN WILSON

UBC professors have won two of Canada's most prestigious awards for young researchers in science and engineering, the E.W.R. Steacie Memorial Fellowships for 1991.

The UBC winners are Indira Samarasekera, a professor in the Department of Metals and Materials Engineering, and Leslie Smith, a professor in the Department of Geological Sciences. It is the second year in a row that UBC professors have won two of the four annual Steacie awards.

The announcement was made Jan. 15 in Ottawa by Peter Morand, president of the Natural Sciences and Engi-

neering Research Council of Canada (NSERC).

UBC researchers have won 10 Steacies since the awards' inception in 1964, more than any other university in Canada except the University of Toronto, which has 13.

The award of salary, plus benefits, gives winners the opportunity to focus on research full time, free from undergraduate teaching and administrative duties, for up to two years. A Steacie also helps fellows secure additional research funding.

Samarasekera was named for her research into the processes used to manufacture steel. Her findings have immediate application in the steel in-

dustry, where she helps to solve complex problems in the processes of continuous casting, the hot rolling of steel and gallium arsenide crystal growth. Her services are in demand by companies in Canada, the United States and around the world.

Holding a joint appointment with the Centre for Metallurgical Process Engineering, Samarasekera has been at UBC since completing a PhD here in 1980. Her thesis supervisor at the time was Keith Brimacombe, director, Centre for Metallurgical Process Engineering, who continues to be an important research collaborator.

"I've benefited enormously from the opportunities I've had to collaborate with some outstanding people," said Samarasekera, who also won a Killam prize in 1987.

"The steel industry is a very supportive one to work with. They are frequently willing to try out your ideas in plant, so I've been able to have quite an impact. It's been very exciting for me."

Smith has achieved international acclaim for his contributions to the science of hydrogeology, in which he has pioneered studies in the transport of chemicals and energy through complex geologic media and contributed to scientific understanding of the role of groundwater in geodynamic processes.

His research is relevant to environmental problems involving the movement of contaminants in groundwater

systems. It also has applications in the site selection of facilities for the geologic disposal of radioactive waste produced by nuclear power plants.

"I've been fortunate to work in a research field that has expanded dramatically in the past decade due to heightened awareness of the need to better quantify the role of sub-surface fluids in geologic processes and because of its societal relevance in dealing with one of the major problems involving environmental contaminants," said Smith.

Also a UBC PhD graduate, Smith has taught at the university since 1981. He won a Killam prize last November.

Other winners of 1991 Steacies are physical cosmologist Nicholas Kaiser of the University of Toronto and mathematician Maruti Ram Murty of McGill University.

Past Steacie winners from UBC are chemist Michael Fryzuk and physicist Tom Tiedje, 1990, chemist Grenfell Patey, 1988, physicist William Unruh, 1985, Keith Brimacombe, 1981, psychologist Anthony Phillips, 1980, geneticist David Suzuki, 1969, and chemist Neil Bartlett, 1964. Another Steacie recipient, UBC ophthalmologist Max



Photo by Media Services

Engineering Professor Indira Samarasekera

Cynader, won while at Dalhousie in 1980.

Winners are chosen from a list, submitted by universities from across Canada, of academics who have begun to establish a national and international reputation for original work in their respective fields. Final selection is made by NSERC in consultation with the Canadian and international research community.

A federal agency, NSERC is one of Canada's largest research granting bodies, this year providing more than \$423 million to support advanced research, train new scientists and engineers and encourage collaboration between universities and industry.



Photo by Media Services

Geological Sciences Professor Leslie Smith

Protein engineering advanced

New Centres of Excellence network launched at UBC

By CONNIE FILLETTI

Canada's capabilities in the newly emerging field of protein engineering are expected to expand and become more competitive worldwide with the official launching of a Centres of Excellence network headquartered at

UBC.

Network researchers will investigate the human body's complex immune system — information which is critical in the fight against cancer and infectious diseases, as well as in the design and development of new drugs to enhance the immune system's ability to combat these diseases.

Other research projects included in the network, called Protein Engineering: 3D Structure, Function and Design, include improvements to new enzymes that can efficiently convert agricultural and forest waste into high-grade chemicals, with a direct impact on Canadian industry and our health system.

Heralded as biotechnology's new wave, protein engineering uses a variety of techniques to understand how proteins function. They are then improved by making systematic changes to their building block structure.

"Protein engineering is important because it allows us to understand how the proteins in nature function," explained network head Michael Smith,

director of UBC's Biotechnology Laboratory and professor in the Department of Biochemistry.

"This, in turn, allows us to design new treatments for diseases such as viral infections and cancer. It also allows us to modify enzymes to make them more useful as environmentally friendly tools in the food and beverage industry, and in the chemical industry."

Smith also said that proteins are essential to all living things because as enzymes, they catalyze the breakdown of food and other nutrients, as well as the synthesis of essential components. He added that proteins are also important as signalling factors, such as hormones, or as structural elements, such as muscle or cartilage.

With the assistance of industry partnership, the researchers will undertake to develop products and processes that can be exploited by the developing Canadian biotechnology industry.

In addition to a program of fundamental studies on protein design, the

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Disciplinary action taken against Place Vanier students

By GAVIN WILSON

UBC President David Strangway has taken disciplinary action against 20 male students involved in the Place Vanier invitations incident.

The discipline ranges from reprimands to suspensions of up to 16 months for the students, who were accused of sending obscene and threatening notes on Oct. 10 to about 300 women living in the campus residence.

One student is suspended for 16 months, two others are suspended for eight months and 15 more are suspended for four months. All suspensions take effect May 1, 1991. Names of the students will not be released by the university.

Strangway acted after receiving recommendations made by an advisory committee on student discipline and meeting individually with each of the students.

One student has yet to meet with the president.

"We want to send a clear message that this type of behavior will not be tolerated at the University of British Columbia," Strangway said. "But at the same time, we wanted to give these young men every opportunity to explain their actions."

The disciplined students can appeal their penalties to UBC's Senate Committee on Appeals and Academic Standing.

The university will put a notation of the disciplinary action on the academic transcripts of the suspended students. The students can apply to have the notation removed, generally in the year in which they expect to graduate.

Three other students, found to have minimal involvement in the incident, will receive letters of reprimand. Another student, cleared of wrongdoing, was not disciplined.

All of the disciplined students will be required to complete community service work with agencies that deal with women and then write a report.

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UBC physicists 'hear' Big Bang

By GAVIN WILSON

A team of UBC physicists has discovered compelling proof for the Big Bang theory of the creation of the universe after analyzing data gathered by a rocket-launched space probe.

The measurements are the most accurate ever made of what is known as cosmic background radiation, the faint after-glow of the primeval explosion that created the universe about 20 billion years ago. The UBC experiment established the effective temperature of this radiation with very high precision, surpassing even a costly NASA probe.

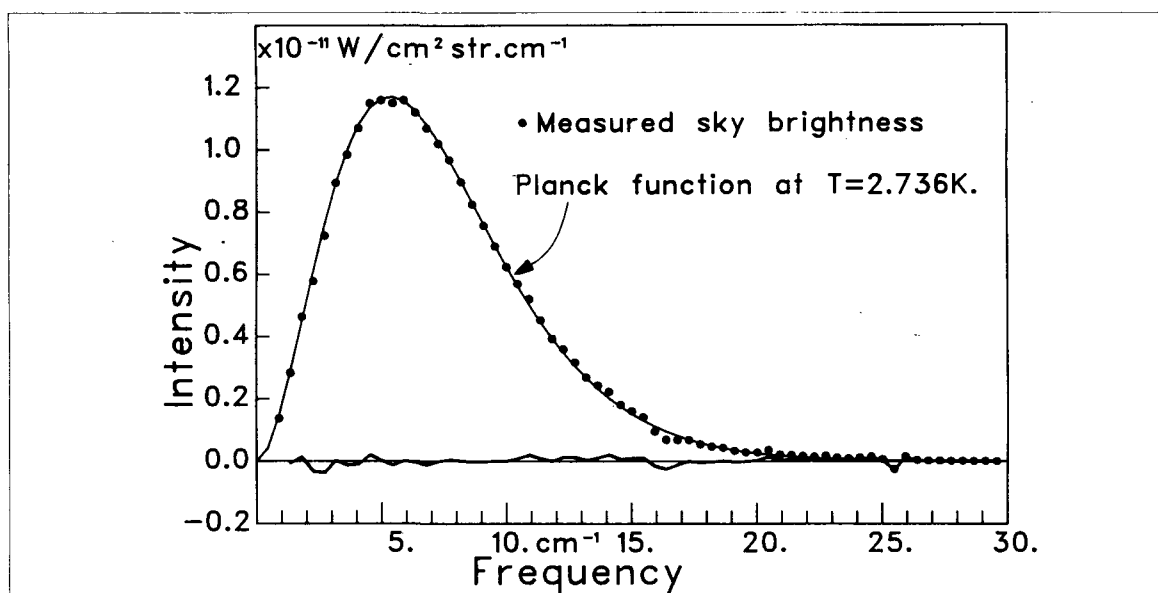
"This is a big step forward in the precision of our understanding of the early universe," said Mark Halpern, a professor of physics.

"If you have any new theory about the early days of the universe, it will now have to match our results," he said. "We've made life very difficult for any non-Big Bang theory."

The Big Bang theory holds that the universe began with a sudden expansion from a very hot and dense starting point. As the universe expanded, it cooled, allowing the formation of nuclei, atoms, and eventually, galaxies, stars and planets.

The ancient traces of radiation from the Big Bang were discovered in 1965. But the radiation is very difficult to study because it is so faint and easily absorbed by the Earth's atmosphere.

Measuring the properties of this light is one of the most important ex-



A "snap shot" of the Big Bang. The graph shows a consistent pattern of radiation across a frequency range, as measured by an instrument designed by members of the UBC Physics Department.

periments in cosmology, the science of the origins of the universe. Like a fossil, it could reveal the processes that shaped the Big Bang.

The UBC experiment was the culmination of a program initiated by Physics Professor Herbert Gush in 1970. It was developed in the past eight years in collaboration with Halpern and graduate student Ed Wishnow.

The instrument used to measure the light consists of a telescope and a Fourier Transform spectrometer, both cooled to two degrees above absolute zero with liquid helium. The detectors are the most sensitive ever used for

this purpose. The entire instrument was designed, built and tested in UBC's Physics Department.

It was launched atop a two-stage Black Brant rocket from the White Sands Missile Range in New Mexico on the night of Jan. 20, 1990.

The rocket reached an altitude of 250 kilometres before returning to earth. Measurements were taken for just five and a half minutes while the payload was above the atmosphere.

Halpern said the UBC results are as accurate as those taken last year by the multi-million-dollar U.S. Cosmic Background Explorer (COBE), a

NASA satellite.

The two experiments established that the spectrum of the cosmic background radiation is thermal, what physicists call a Planck Spectrum, with a temperature of 2.736 Kelvin. This result is predicted by the simplest

models of the Big Bang put forward by cosmologists.

"The results of the two experiments were completely consistent, more consistent than one can expect," Halpern said. "COBE produced similar results to us, but they were not as precise. Their margin of error was greater."

One of the puzzles revealed in the data is that there is no evidence of any other violent event of cosmic proportions since the Big Bang.

"It is hard to imagine how the creation of huge objects, such as large clusters of galaxies, could have occurred without violence. If there was, it didn't leave any evidence," Halpern said.

This finding sets limits for future theories about how large-scale structures, such as galaxy clusters, were formed, he added. Any theory will have to explain how they were formed with only a certain amount of energy being released.

Next, the UBC researchers plan to send their spectrometer aloft in a high-altitude balloon in a related effort to measure how uniform the cosmic background radiation is in different directions.



Graduate student Ed Wishnow, Professor Mark Halpern and Professor Herbert Gush with space experiment instrument.

Network marks new era in genetic engineering



Michael Smith heads UBC's Protein Engineering Network which will explore new treatments for cancer.

Continued from Page 1

network will offer its facilities for protein structure determination to scientists from other universities, research institutes and industries.

Also, more than 25 per cent of the ongoing budget will be designated for the training of graduate students and post doctoral fellows at UBC.

Network Manager Brian Rigby lauded the network as representative of a new era in genetic engineering.

"It will be taking the concepts of genetic engineering and moving them into the next generation," he said.

Pat Carney, a member of Canada's Senate and adjunct professor in UBC's School of Community and Regional Planning, said the network proposes a research program that will help guarantee Canada's competitiveness in the crucial area of science, technology and industry.

Her remarks were made on behalf of Science Minister William Winegard during the official launch of the network at UBC on Jan. 17.

Bernard Bressler, associate vice president of Research, added that UBC is proud of its participation in the Pro-

tein Engineering Network.

"The opportunity to link the efforts of our researchers with those in other universities and the industrial sector is a unique feature of this program which should contribute significantly to the advancement of scientific knowledge," he said.

The network is supported by \$20 million in federal funds and comprises a team of 21 researchers in five locations across Canada. It is part of the \$240 million Centres of Excellence Program for scientific research, launched by Ottawa in 1988.

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UBC Media Services Photography 228-4775

Calf takes first steps for cattle industries

By GAVIN WILSON

The ancient Greeks were so amazed by the rebirth of the natural world each spring, they attributed it to the work of a goddess.

Imagine what they would make of her namesake, Persephone, a calf born last month at the dairy unit of UBC's Department of Animal Science. Her birth mother is not her genetic mother and her father is an anonymous donor to artificial insemination.

Persephone is the first test-tube calf born in the unit, where experiments are being conducted that could have significant impact on B.C.'s \$369-million cattle and dairy industries.

Animal Science Professor Rajadurai Rajamahendran and his colleagues are seeking improved and less expensive methods of embryo transfer, a technology that has seen widespread, but limited, use in Canadian agriculture in the past decade.

Rajamahendran's research could have applications in other areas as well.

"Although our particular application is with cattle, the results could help to optimize human in vitro fertilization," he said.

The research could also have applications in the breeding of transgenic animals. These are animals which have genes for various attributes, such as growth and milk production, implanted into them when they are still single-cell embryos. In vitro fertilization could produce embryos for increased production of transgenic animals.

Research partners involved in Rajamahendran's work include the Biotechnology Lab, the Andrology Lab at University Hospital, UBC site, and the Human In Vitro Fertilization program.

But the focus of his research, funded for \$125,000 by the Science Council of B.C., is the agriculture industry, where improved technology could result in increased milk and meat production.

B.C. dairy farmers are also in an excellent position to take advantage of advances in embryo transfer because of the superior genetic stock of their Holstein cattle, he said.

Rajamahendran sees great potential in the export industry, particularly to African and Asian countries that are looking for improved genetic stock. Canadian cattle have a worldwide reputation for excellence but exports of full-grown cattle are difficult and expensive. Shipping a microscopically small frozen embryo, however, is a far easier matter.

Embryo transfer begins with a genetically superior cow which is given hormone injections to stimulate the release of as many as 20 eggs into the reproductive tract, instead of just one.

After being fertilized by artificial insemination, the embryos are flushed out of the cow's uterus and inserted singly into surrogate mothers. One cow can be the genetic mother to dozens of cattle each year.

"There's lots of variation using current techniques. You might get 20

embryos from one cow, but none from another," he said. "We don't know the exact dose that should be used or how early it should be given."

The UBC team is experimenting with the hormone treatment that produces superovulation, administering it at different times during the cow's estrous cycle and in varying doses to see which is most effective in producing the greatest number of eggs. Ultrasound is used to observe stages of the cycle and monitor development day by day.

Another source of large numbers of calves, whether for export, research or production of transgenic animals, is slaughterhouse ovaries.

A problem in the current in vitro fertilization technology is that delicate surgery is required to place fertilized eggs in the oviducts of surrogate mothers.

If the embryo could be allowed to develop to a later stage, it could be implanted directly into the uterus.

Using eggs harvested from a slaughterhouse, Rajamahendran is using an incubator to try to mimic the conditions of the oviduct where eggs develop in the first few days after release from follicles. The eggs are fertilized by artificial insemination and returned to the incubator, where their development is studied further.

The researchers are also working on a process to separate male and female embryos, important because female embryos are much more valuable to farmers.



Graduate student Michele Calder takes a licking from Persephone.

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Across the Nation

Federal government reviews financial needs of post-secondary students

The federal government has called for a review of the methods used to assess the financial needs of post-secondary students under the current loans program.

Economist Gail Cook-Bennett, formerly with the C.D. Howe Institute, has been appointed to conduct the study.

Student financial needs are currently assessed by provincial governments according to criteria agreed to nationally. The same structure has been in place since 1984.

Cook-Bennett will consult provincial government officials, student leaders, financial aid administrators and bankers across the country during her review of the program. Her report is expected early this year.

Quality of university education studied

The Association of Universities and Colleges of Canada (AUCC) has established a Commission of Inquiry on the quality of education in Canadian universities.

Among the issues the commission will be addressing are tuition fees and accessibility.

Other areas of focus include the development and use of performance indicators for faculty and librarians, and what barriers exist to improving the quality of education within Canadian universities.

The AUCC commission is chaired by Stuart Smith, former chair of the Science Council of Canada.

Post-secondary education needs federal standards: Dye

A report by Auditor General Ken Dye charges that Ottawa is not doing enough to develop federal standards for post-secondary education.

He said that the Department of the Secretary of State has not yet been able to implement a framework to promote and encourage the clear definition of national objectives in support of a post-secondary system based on excellence and equality of opportunity.

Dye added that even though post-secondary education in Canada falls under provincial jurisdiction, the Secretary of State must establish a mechanism for overall coordination of federal programs and policies.

He further stated that considering the challenges facing post-secondary education, there was a clear need for the joint establishment of educational and economic goals in order to enable Canada to adequately develop its human resources for the future.

Human sciences take back seat to applied sciences

The president of the Social Sciences and Humanities Research Council says that research in the social sciences and humanities is treated with less importance than research conducted in the natural sciences and engineering.

Paule Leduc made her remarks in a recent address to the Association of Universities and Colleges of Canada.

She said that universities were responsible for a growing imbalance between the place accorded to human sciences and that reserved for the applied sciences in the university setting.

However, Leduc added that universities alone were not responsible for the marginalisation of the social sciences and humanities.

She said that researchers in these disciplines must also assume a major portion of the blame for the current lack of energy devoted to developing a dynamic research infrastructure in the human sciences, and drawing positive attention to the results of their research.

January 27 – February 9

SUNDAY, JAN. 27

UBC Symphonic Wind Ensemble



Martin Berinbaum, Director. Free Admission. Old Auditorium at 8pm. Call 228-3113.

MONDAY, JAN. 28

University Computer Services Workshop

MS Word 5.0-Level 1. Hands-on training with Jim Stewart. UCS Annex Micro 2 from 9am-12noon. Call 228-3941.

Anthropology/Sociology Lecture

Indian Self-Government In Canada And The Constitution. Russel Barsh, Research Associate Professor, U of Washington, Foreign Affairs Office, Mic-Mac Grand Council. Anthropology Anso 207/9 from 9:30-10:20am. Call 228-6514.

Pediatrics Research Seminar



Advances In Neurostimulation: Microstimulation Of The Spinal Cord Of The Rat. Norbert F. Kaula, Biomedical Engineer, Urology, U. of California. University Hospital Shaughnessy Site D308 at 12pm. Call Dr. Skala at 875-2492.

Biomedical Research Centre Seminar

Hemopoietic Growth Factor Receptor Interactions In Primary Human Myeloid Cells. Dr. Angel Lopez: I.M.V.S., Adelaide Australia. B.R.C. Seminar Room at 12:30pm. Call 228-7810.

Mechanical Engineering Seminars

Forced Convection Of A Cross-Corrugated Channel With Asymmetric Heating. S. Chowdhury. Natural Convection Of A Vertical Cross-Corrugated Channel With Asymmetric Heating. Y. Piao. Both speakers, M.A.Sc. students, Mechanical Engineering, UBC. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Call 228-6200.

Biochemistry Seminar



Isolation And Characterization Of The Dendritic Cell. Dr. Judy McKenzie, Research Scientist, Haematology, North Canterbury Hosp. Board, Christchurch, New Zealand. IRC #4 at 3:45pm. Call 228-4698.

Geophysics/Astronomy Seminar

Astronomical Opportunities With The Synthesis Telescope At DRAO. Dr. Peter Dewdney, Dominion Radio, Astrophysical Observatory, Penticton. Geophysics/Astronomy 260 at 4pm. Call H. Richer at 228-4134/2267.

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CALENDAR DEADLINES

For events in the period Feb. 10 to Feb. 23, notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Tuesday, Jan. 29 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. 7. Notices exceeding 35 words may be edited.

TUESDAY, JAN. 29

Medical Genetics Seminar

Molecular Genetics Of Lipoprotein Lipase. Dr. Howard Henderson, Medical Genetics, UBC. Instructional Resources Centre Lecture Hall #1 at 8:30am. Coffee from 8:15am. Call 228-5311.

Botany Seminar



High Chlorophyll Fluorescent Mutants Of Arabidopsis. Randy Dinkins, Ph.D. Candidate, Botany, UBC. Biological Sciences 2000 at 12:30pm. Call 228-2133.

University Computing Services Workshop

Introduction To S And S Plus. Hands-on training with Harry Joe. UCS Annex Micro 2 from 9:30-11:30am. Call 228-3941.

Lectures In Modern Chemistry

Applications Of Carbohydrate Chemistry To The Study Of Glycosyltransferases. Dr. Ole Hindsgaul, Chemistry, U. of Alberta, Edmonton, Alberta. Chemistry B250 at 1pm. Call 228-3266.

Neuroscience Discussion Group

Golf And Neurons That Say NO: Novel Signal Transduction Systems In The Brain. Dr. Steve Vincent, Associate Professor, Psychiatry, UBC. University Hospital, UBC Site G279 at 4pm. Call 228-2494.

Tuesday Evening Interfaith Symposium



Jewish Education In The Middle Ages: The Relationship Between Teacher And Student In Hebrew Illuminated Manuscript. Violet-Belle Mulholland. St. Mark's College, 5935 Iona Drive from 7:30-9pm. Call 224-3311.

WEDNESDAY, JAN. 30

University Computer Services Workshop

MS Word 5.0-Level 1. Hands-on with Jim Stewart. UCS Annex Micro 2 from 9am-12noon. Call 228-3941.

Micro Lunch

Demographics Made Easy With P-Census. Brian Kroeker. Computer Sciences 460 from 12:30-1:30pm. Free admission. Call 228-3941.

Microbiology Seminar



To Be Announced. Dr. Jack Saddler, Forest Sciences, UBC. Wesbrook 201 from 12:30-1:30pm. Call 228-6648.

Forestry Seminar

The Northern Vancouver Island Regeneration Problem: Current Knowledge And Research Initiatives. Mr. Christian Messier, Forest Sciences, Forestry, UBC. MacMillan 166 from 12:30-1:30pm. Free admission. Call 228-2507.

Orthopaedics Grand Rounds

Juxtacortical Osteogenic Sarcoma. Chairman: Dr. C.P. Beauchamp. Eye Care Centre Auditorium at 7:30am. Call 875-4646.

Wednesday Noon-Hour Series

Rennie Regehr, Viola and Jenny Regehr, Piano. Music Recital Hall at 12:30pm. Admission: \$2 at the door. Call 228-3113.

Health Promotion Research Seminar

Diffusion Of Smoking Prevention Programs. Dr. Guy Parcel, Director, Center for Health Promotion Research/Development, U. of Texas Health Science Center at Houston. Faculty Club Salon B at 3:30pm. Call 228-2258.

Geography Colloquium

Runoff Production In Steep, Humid Areas. Dr. Jeff McDonnell, Forest Hydrology, Utah State U. Geography 201 at 3:30pm. Call 228-3268.

Applied Mathematics Seminar



Numerical Simulations of BGK Equilibria In Maxwellian Plasmas. Dr. Lucio Demeio, Postdoctoral Fellow, Chemistry, UBC. Mathematics 229 at 3:45pm. Call 228-4584.

Resource Ecology Seminar

Evolution Of Plumage Pattern In Price's Warblers. Trevor Price, U. of California, San Diego. BioSciences 2449 at 4:30pm. Call 228-4329.

AMS Forum On Tuition Hikes



UBC President David Strangway explains proposed tuition increases and answers concerns from students. SUB Auditorium at 12:30pm. Call 222-3972.

THURSDAY, JAN. 31

Pharmacology Seminar

Pharmacological Control Of Airway Hyper-Responsiveness In An Asthma Model. Dr. R. Robert Schellenberg, UBC Pulmonary Research Group, Medicine, UBC. IRC #1 from 11:30-12:30pm. Call 228-2575.

UBC Symphony Orchestra



Jesse Read, Director. Old Auditorium at 12:30pm. Free Admission. Call 228-3113.

Essay Skills Workshop

A Workshop To Assist Students Increase Their Skills In The Preparation Of Essays. Nancy Horsman. Office For Women Students from 12:30-1:30pm. Call 228-2415.

Institute of Asian Research Seminar



China And Korea. Bureaucratic Reform And Judicial Review: Administrative Litigation Act Of The People's Republic Of China. Dr. Pitman B. Potter, Director, Chinese Legal Studies, Law, UBC. Asian Centre 604 from 3:30-5pm. Call 228-4688.

Physics Colloquium

Helium Wind Tunnels. Russell Donnelly, Physics, U. of Oregon. Hennings 201 at 4pm. Call 228-3853.

University Computer Services Workshop



Quick Start with Jim Stewart. Fee \$7.50. UCS Annex Micro 2 from 12:30-1:30pm. Call 228-3941.

J.V. Clyne Lecture

Commerce/Law Series. GATT At The Crossroads: The Uruguay Round. Christopher Thomas, Ladner Downs Barristers/Solicitors, Vancouver. Henry Angus (Commerce) at 12:30pm. Call 228-5675.

Philosophy Winter Colloquium Series



Bringing Belief Down To Earth. Howard Wettstein, U. of California, Riverside. Buchanan E-358. Call 228-2621.

FRIDAY, FEB. 1

Agricultural Economics Seminar

The Danger Of Externally Imposed Reforms When Policy Making Is Endogenous: Beef Export Taxes, Exchange Rates, And Other Policy Induced Distortions In Uruguay, 1961-1986. Tu Jarvis, U. of California, Davis. Ponderosa Annex D203 at 3:30pm. Call Mary Bohman at 228-4382.

Philosophy Winter Colloquium Series

That Name Means Nothing To Me. Howard Wettstein, U. of California, Riverside. Buchanan Block E358 at 4pm. Call 228-2621.

UBC Symphony Orchestra

Jesse Read, Director. Old Auditorium at 8pm. Free Admission. Call 228-3113.

Pediatrics Grand Rounds



Clinical Aspects Of Gastrointestinal Motility. Dr. Steven Altschuler, Children's Hospital, Philadelphia; U. of Pennsylvania. G.F. Strong Rehab. Centre Auditorium at 9am. Call 875-2118.

Chemical Engineering Seminar



Studies Of Particulate Fouling In Compact Heat Exchangers. Dr. G. Zhang, Post-doctoral Fellow, Chemical Engineering, UBC. Chemical Engineering 306 at 3:30pm. Call 228-3238.

Fisheries/Aquatic Sciences Seminar

Effects Of Fish In River Food Webs. Mary Power, U. of California at Davis. BioSciences 2361 at 3:30pm. Call 228-4329.

SATURDAY, FEB. 2

UBC/VGH Nursing Program Open House

Hospital tours plus career counselling; video, lab, and library displays; program and financial information. School of Nursing, Vancouver General Hospital Site, 835 W. 10th Ave. from 10am-4pm. Call 875-4391.

MONDAY, FEB. 4

Computer Services Workshop

Word Perfect 5.1-Level 1. Hands-on with Charles Tremenwen. UCS Annex Micro 2 from 9am-12noon. Call 228-3941.

UBC Chamber Wind Ensembles

Free Admission. Music Recital Hall at 12:30pm. Call 228-3113.

Mechanical Engineering Seminars

Autopilot Design Incorporating Rudder Roll Control. Chris Martin. Process Planning For Milling Operations. K. Bhatia. Both speakers, M.A.Sc. students, Mechanical Engineering, UBC. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Call 228-6200.

Applied Mathematics Seminar



Steady Flow Past Bluff Bodies At Large Reynolds Number. Dr. Tao Tang, Mathematics/Statistics, Simon Fraser U. Mathematics 229 at 3:45pm. Call 228-4584.

Geophysics/Astronomy Seminar

The Search For Extraterrestrial Intelligence: Recent Developments And A New Strategy. Dr. Woody Sullivan, Astronomy, U. of Washington. Geophysics/Astronomy 260 at 4pm. Coffee from 3:30pm. Call H. Richer at 228-4134/2267.

TUESDAY, FEB. 5

Medical Genetics Seminar



A New Eugenics? Dr. J.M. Freidman, Acting Head, Medical Genetics, UBC. Instructional Resources Centre #1 at 8:30am. Coffee from 8:15am. Call 228-5311.

Faculty Women's Club General Meeting



Features two guest speakers. Research In Biological Control. Dr. Judith Myers, newly appointed Associate Dean For The Promotion Of Women, Science Czech Theatre/Politics. Marketa Goetz-Stankiewicz, prof. Germanic Studies, UBC. Cecil Green Park House at 9:30am. All welcome. Call 222-1983.

Botany Seminar

Studies Of Inland Halophyte Communities: From Description To Laboratory Experiments. Dr. Norm Kenkel, Botany, U. of Manitoba. BioSciences 2000 at 12:30pm. Call 228-2133.

Lectures In Modern Chemistry

Recent Developments In Computational Polymer Science. Dr. Bruce Eichinger, Biosym Technologies, Inc., San Diego. Chemistry B250 at 1pm. Refreshments served from 12:40pm. Call 228-3266.

Neuroscience Discussion Group



Structure And Function Of The cGMP-gated Channel In Photoreceptors. Dr. Bob Molday, Biochemistry, UBC. University Hospital, UBC Site G279 at 4pm.

WEDNESDAY, FEB. 6

Computer Services Workshop

Word Perfect 5.1-Level 1. Charles Tremenwen. UCS Annex Micro 2 from 9am-12noon. Call 228-3941.

Micro Lunch

UNIX-G And You. Tom Nicol. Free Admission. Computer Sciences 460 from 12:30-1:30pm. Call 228-3941.

Orthopaedics Grand Rounds



Medical Treatment Of Rheumatoid Arthritis-Nothing New, Nothing Helps, Why Bother? Chairman: Dr. Robert W. McGraw, Guest: Dr. Caroline Paterson. Eye Care Centre Auditorium at 7:30am. Call 875-4646.

January 27 –
February 9

Wednesday Noon-Hour Series



Michael Strutt, Guitar.
Admission: \$2 at the door.
Music Recital Hall at
12:30pm. Call 228-3113.

Forestry Seminar

The Future Role Of Wood Composites In
Canada's Forest Industries. Dr. Paul
Steiner, Harvesting/Wood Science, For-
estry, UBC. MacMillan 166 from 12:30-
1:30pm. Free admission. Call 228-2507.

Microbiology Seminar Series



Investigation Of Growth
Rate Regulation In Vitro:
The Final Nail? Steve Wel-
lington, Microbiology, UBC.
Westbrook 201 from 12:30-
1:30pm. Call 228-6648.

Geography Colloquium

Models And Observations Of A Cloudy
Planet. Dr. Phil Austin, Geography/At-
mospheric Science, UBC. Geography 201
at 3:30pm. Call 228-3268.

Resource Ecology Seminar



Population Dynamics Of
Red Squirrels: The Role
Of Food Availability And
Territorial Behaviour. Wal-
ter Klenner, Forest Sci-
ences, UBC. BioSciences
2449 at 4:30pm. Call 228-4329.

THURSDAY, FEB. 7

Pharmacology Seminar

Biochemical Studies Of Cardiac Protein
Kinase C Isozymes. Mr. Bruce G. Allen,
Pharmacology/Toxicology, Pharmaceu-
tical Sciences, UBC. IRC #1 from 11:30am-
12:30pm. Call 228-2575.

UBC Stage Band

Fred Stride, director. Free admission.
Music Recital Hall at 12:30pm. Call 228-
3113.

School Of Nursing Open House



All university students in-
terested in nursing as a
profession. Koerner Pavil-
ion, University Hospital,
UBC Site, T180, 3rd floor
from 12-2:30pm and 6:30-
9pm. Call 228-7417.

Office for Women Students' Workshop

Essay Skills. Nancy Horsman. Free
admission. First of three workshops,
Thursdays. Buchanan B212 from 12:30-
1:30pm. Call 228-2415.

CICSR Distinguished Lecture Series



The Limits Of Layering In
Network Protocols. Dr.
David Clark, Senior Re-
search Scientist, MIT
Computer Science Lab.
Scarfe 100 from 1-2:30pm.
Refreshments from 12:30pm. Call 228-
6894.

Physics Colloquium

The Nematode C. Elegans Is Not A Black
Hole. Don Moerman, Zoology, UBC.
Hennings 201 at 4pm. Call 228-3853.

Pediatrics Resident Case Management



Hypertension. Dr. Ann
Antrim, Dr. Gail Annich.
G.F. Strong Rehab. Cen-
ter Auditorium at 9am. Call
A.C. Ferguson at 875-
2118.

Computer Services Workshop

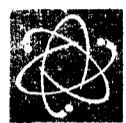
Quickstart: Introduction To Micros For
Students. Jon Nightingale. University
Computing Services Annex Micro 2 from
12:30-1:30pm. Fee: \$7.50. Call 228-
3941.

FRIDAY, FEB. 8

Jazz At Noon

North Texas State U. Jazz Band. Admis-
sion \$5 at the door. Music Recital Hall at
12:30pm. Call 228-3113.

Chemical Engineering Seminar



Degradation Products
Resulting From COS-DEA
Interactions In Gas Purifi-
cation. Mr. O. Dawodu,
Graduate Student,
ChemEngineering, UBC.

ChemEngineering 306 at 3:30pm. Call
228-3238.

Fisheries/Aquatic Sciences

Planktivory And Zooplankton Dynamics:
Contrasting A Baltic Bay With A Wisconsin
Lake. Lars Rudstam, U. of Wisconsin.
BioSciences 2361 at 3:30pm. Call 228-
4329.

Regent College Conference



The Christian In The
Marketplace: The Theol-
ogy Of Work. Don Flow,
Dr. Edwin Hui, Dr. R. Paul
Stevens, Dr. Ruth Elwood
Martin and Mr. W. Stanley
Martin. Regent College, 5800 University
Blvd. from 6:30-9pm. Fees: Each, \$50,
Couple, \$70 and student, \$20. Registra-
tion deadline Feb. 6. Call 224-3245.

NOTICES

Graduation Application



All students who expect to
graduate this May (spring),
should complete Gradu-
ation Application cards, to
be returned to the
Registrar's Office by Feb.
15, 1991. Students who do not apply will
not be considered for graduation.

Community/Regional Planning Short Courses

Heritage Conservation: What Will We
Leave For the Year 2020? Judy Oberlander,
Principal, Judy Oberlander Preserva-
tion Consultants Inc. and member, Van-
couver City Planning Commission. Fee
\$200. Feb. 1, 9am-5pm and Feb. 2, 9am-
12noon. Library Processing Centre, 4th
floor.

Renewal, Conservation, And Densifica-
tion In The Inner City: A Holistic Ap-
proach. David Guggenheim, Consulting
Architect, Jerusalem, Israel, and lecturer,
Architectural, Technion, Haifa, Israel. Fee:
\$175. Feb. 4 and 6, 6-9pm in Lasserre
107; continuing Saturday, Feb. 9 from
9am-4pm in Lasserre 205.

Environmental Impact Assessment In BC
Today: Methods, Review And Process.
Patrick Duffy, Consultant In EIA And Re-
source Management. Fee \$250. Library
Processing Center 4th floor, Fri., Feb. 8
from 9-5pm and Sat. Feb. 9 from 9am-
4pm. For information on any of these
short courses, call 228-3914.

Brave New Playwriters



Two programs premiering
15 one-act plays showcas-
ing material by up and
coming playwrights. Pre-
sented by UBC Creative
Writing Dept. and play-
wright in residence, Bryan Wade. Pro-
gram One: Jan. 30 and Feb. 1 at 7:30pm
and Feb. 2 at 2pm. Program Two: Jan.
31, and Feb. 2 at 7:30pm; Feb. 3 at 2pm.
All performances in the Dorothy Somerset
Studio. Call 731-0721.

Office For Women Students' Workshop

Creative Journal Writing For Women.
Caren Durante. Techniques to reduce
stress, resolve issues and develop poten-
tial. Five sessions, ongoing, free admis-
sion, pre-registration required. Feb. 1, 8
and 15 and Mar. 1 and 8th. Brock Hall
106A 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 Sci-
ence. 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 Sea Monsters to Earth-
quakes in B.C. More than 500 topics to
choose from; most speakers are available
free of charge. Call 228-6167, Mon., Tue.,
Fri., 8:30am-12pm.

Museum of Anthropology



Exhibitions extended: Por-
traits of BC Native leaders,
chiefs, chief counsellors
and elders by Kwaguitl
photographer David Neel
and Ghosts In The Ma-
chine, sculptures created by Snake In The
Grass Moving Theatre. Now open in the
new West Wing: The Koerner Ceramics
Gallery. Closed Monday. Call 228-5087.

Executive Programmes

One/two day business seminars. Jan. 27-
Feb. 9 series includes: Employment Law,
\$450; Do It Yourself Marketing Research,
\$550; Financial Informations Systems,
\$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 learn-
ing, and teaching English in Japan. Tues-
day evenings from 7-9pm. Call 222-5208.

Language Programs And Services



All programs start week of
Jan. 28. Non-credit con-
versational programs in
French, Spanish, Japa-
nese, Cantonese and Chi-
nese begin the week of
Jan. 28. Also offered are Business Japa-
nese and Teaching Languages To Adults.
Call Language Programs/Services, Centre
for Continuing Education, 222-5227.

Psychology Step-Families Study

Married couples living with at least one
child from a previous union, invited to par-
ticipate in this study of stress and coping
in step-families. Call Jennifer Campbell at
228-3805.

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. Physio-
logical 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 diag-
nosis. 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 Jan-
ice at 228-7895/7057.

School of Family/Nutritional Sciences Study



Energy Metabolism. Fe-
male volunteers needed,
age 27-38 with no history
of dieting. Must be able to
attend UBC clinic monthly
for a short follow-up visit,
for 1 year. Call Sara Pare at 228-2502.

Counselling Psychology Retirement Preparation

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

Diabetic Clinical Study



Diabetics who have pain-
ful neuropathy affecting the
legs needed to volunteer
for 14-week trial of an in-
vestigational 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 in-
vestigational medication to treat Pre Men-
strual Syndrome. Call Dr. D. Carter at
228-7318.

Sleep Disorders Study



Volunteers 18-45 years
suffering from Chronic In-
somnia needed for a study
on sleep-promoting medi-
cation (hypnotics). Must be
available to sleep overnight
at a lab for five nights. Call Carmen
Ramirez at 228-7927.

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 pro-
grams. 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 re-
sponses. Call Elizabeth Dean, Ph.D.,
School of Rehab. Medicine, 228-7392.

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 appoint-
ments available in 210. Ponderosa An-
nex 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 Re-
sources 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).

Badminton Club For Faculty/Staff

Thursdays from 8:30-10:30pm and Fri-
days from 6:30-8:30pm in Gym A of the
Robert Osborne Centre. Club dues, \$15
plus library card. Call Bernard 228-6809
or 731-9966.

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 fit-
ness 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. Fam-
ilies interested in planting, weeding or
watering the garden, call Gary Penning-
ton 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. 7 issue is
4 p.m. Jan. 29

For information,
phone 228-3131

To place an ad,
phone 228-4775

Family support clinic opens on campus

By CHARLES KER

Support for families on campus has been bolstered by the addition of a graduate training program in UBC's School of Social Work.

In conjunction with Student Family Services, a church-sponsored counselling agency, the school has opened a family support clinic to serve the needs of more than 530 student families living on campus. The six-room clinic is located in the north wing of the Social Work Annex on Cecil Green Park Road.

"It's an exciting way for the university to make a contribution because it provides training and research opportunities for students as well as meeting a community need," said Social Work Professor Kathryn McCannell.

Graduate work at the clinic focuses on play therapy, family therapy, and a therapy group for survivors of sexual abuse.

In the past, students and graduates of the Social Work program have received training in close to 150 social work agencies throughout Vancouver. However, people living in the University Endowment Lands don't have the same access to these municipal agencies as Vancouver residents and must often join waiting lists of up to three months.

Since her appointment two years ago as agency director, Brenda Stevens' caseload has grown from 17



Brenda Stevens watches over toddler in family support clinic's play therapy room in Social Work annex.

to 125 clients. Clients consist of single parent and low-income families, as well as many international families.

Stevens said that in addition to the heightened stress of being a student,

these families experience a variety of social problems such as loneliness, family break down, alcohol and drug abuse, and physical, emotional and sexual abuse.

Services available at the clinic in-

clude child and family counselling, couples counselling, crisis intervention and a family drop-in for preschoolers and parents.

To foster a better sense of community on campus, the clinic works closely

with the Acadia Park Tenants' Association, the Family Practice Department and local schools.

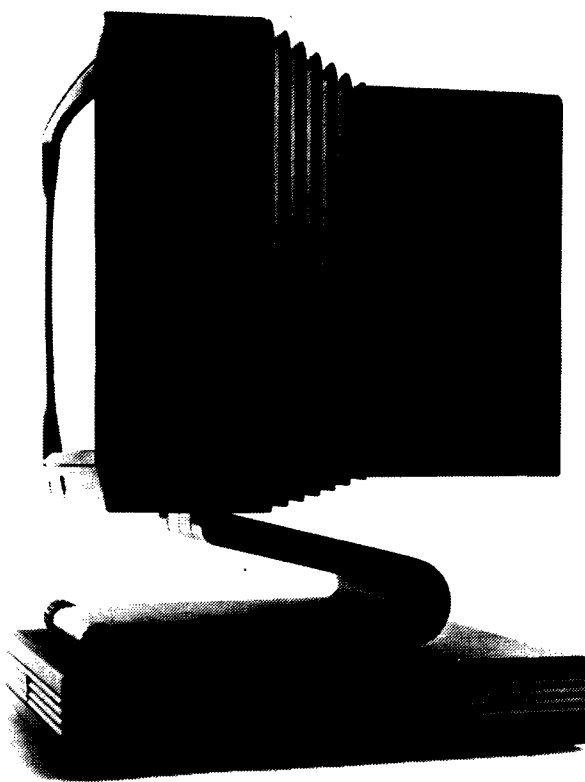
"We're trying to provide a wide range of services to strengthen family life," said Stevens. "The aim is to network with other service providers to make the agency a community effort."

Before linking with the school in August, Student Family Services operated for two years from a small office in the Acadia Park high-rise off Melfa Road. The service was initiated by an Anglican minister who saw a gap in family service for children and spouses of university students. The Acadia Park office remains open with the space, furniture and telephone costs being picked up by UBC Housing and Conference Services.

Stevens now divides her time between Acadia Park and the annex wing. Joining Stevens in the clinic are two faculty members who supervise the clinical work of five graduate student volunteers.

Student Family Services is funded by the Anglican Church of Canada and has received donations from the Vancouver Foundation and the Rotary Club. Open Monday to Friday, service is free to residents of UBC Family Housing and children attending schools on the UEL lands. Other residents of the UEL pay according to their income.

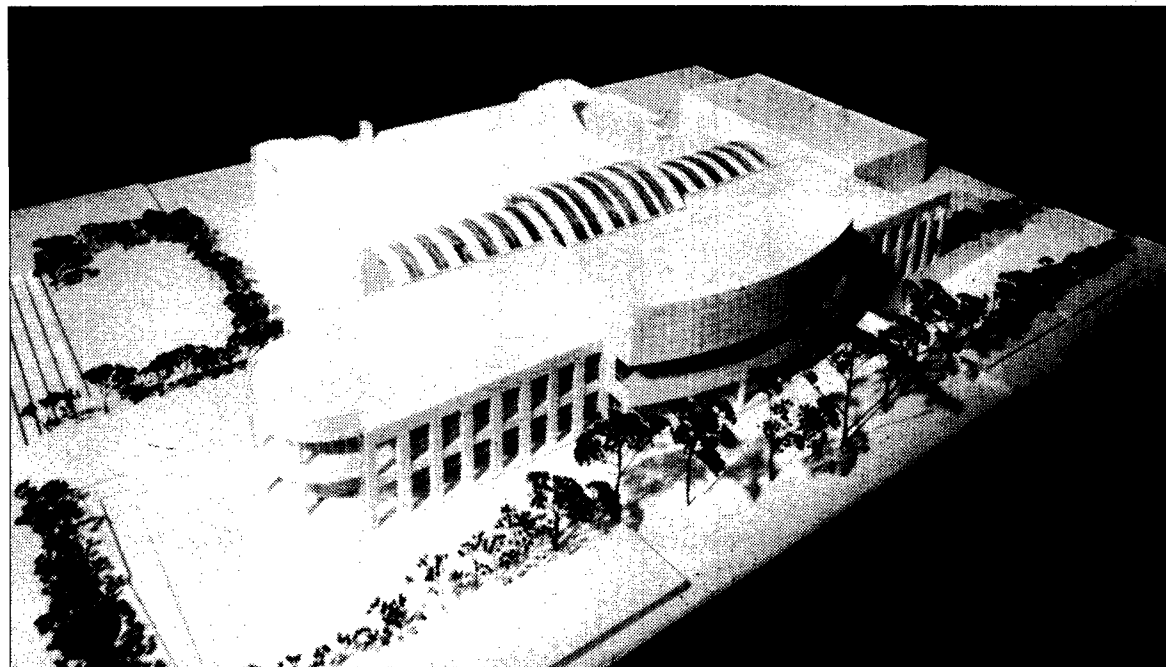
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University Boulevard • 228-4741



All student services will be consolidated in the new, enlarged Brock Hall. Shown here is the architect's model.

Work begins on Brock Hall addition

A \$9.32 million contract has been awarded for construction of a 5,500 square metre addition to Brock Hall.

UBC President David Strangway announced that contractor James A. Rice Limited will oversee the addition, which will consolidate all student services under one roof and offer im-

proved communication among departments.

Along with the Registrar's Office, Student Housing, Financial Services, Awards and Financial Aid, the building will be the new home of the Disability Resource Centre and will also house the Rick Hansen National Fellow program.

B.C. Lotteries provided \$2 million toward the cost of this project.

The public areas of the building were analyzed and designed to respect the needs of the hearing, visual and physically impaired. Construction is scheduled to begin this month and is slated for completion in the summer of 1992.

Arts administrators face tough challenges

By ABE HEFTER

Arts organizations in Canada are going to find it exceedingly difficult to survive unless they do a better job marketing themselves.

"In countries like France, Britain and Germany, marketing is not a dirty word," says Professor Robert Kelly, director of UBC's Arts Administration Program. "These are countries with distinguished arts programs that have come to terms with the need to serve many publics."

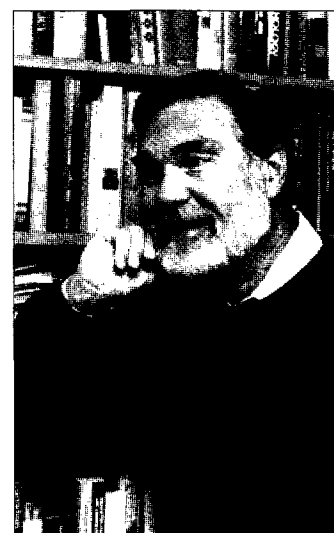
Kelly said arts organizations in Canada are much more reluctant to try to make a case, economically or otherwise, in terms of the value of their services.

"Arts organizations in this country must begin to address the economic

as well as artistic problems facing them," he said.

To help administrators address the unique problems they face in performing arts and visual arts organizations, UBC offers the Arts Administration Option, a special option within the MBA program of the Faculty of Commerce and Business Administration. The program, currently in its third year, is a joint initiative with the Faculty of Arts.

Kelly said those who manage arts organizations are traditionally promoted from within the



Kelly

ranks of creative, technical or professional individuals.

"Unlike senior managers in private-sector organizations, they have neither the technical training nor the administrative experience to fulfill their new responsibilities," said Kelly. "Yet the problems facing arts managers are vast. They must operate complex organizations with less-than adequate resources, answer to boards composed of individuals whose areas of expertise usually lie outside the arts while, at the same time, fostering creativity and artistic standards."

"Clearly, arts administrators are among the most challenged and least prepared of all administrators in Canada."

Kelly said applicants to the program must have, in all but the most unusual cases, professional experience in an arts organization. Anywhere from five to eight people a year who meet the university's standards are accepted into the program.

"There has been a reluctance on the part of the arts community in Canada to acknowledge the need to take control of its destiny," he said. "This country has been losing orchestras, theatre companies and the like because of a reluctance and inability to take on fiscal responsibility. There's a battle for the entertainment dollar being waged in this country and a battle for the cultural dollar within that framework."

However, Kelly is quick to point out that no amount of business savvy will replace the deep-rooted commitment needed for arts organizations to flourish.

"The Arts Administration Option helps people who are dedicated to the arts compete by giving them the tools that may enable them to realize artistic goals in a businesslike manner."

However, this businesslike approach has left the arts world in somewhat of a dilemma, he said.

"There are questions that the arts world has been struggling to answer," said Kelly. "Can you do anything commercial without destroying the arts? How do you find that middle ground? The arts world needs people who have the technical background to be able to come up with strategies they can sell and sustain by demonstrating a sensitivity to the public. The world does not owe the arts community a living."

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Classified

Classified advertising can be purchased from Media Services. Phone 228-4775. Ads placed by faculty and staff cost \$6 per insertion for 35 words. Others are charged \$7. Monday, Jan. 28 at 4 p.m. is the deadline for the next issue of UBC Reports which appears on Thursday, Feb. 7. Deadline for the following edition on Feb. 21 is 4 p.m. Monday, Feb. 11. All ads must be paid in advance in cash, by cheque or internal requisition.

Services

EDITING - Experienced academic editor will proof-read, copy-edit or index your journal article, book manuscript or dissertation. Reasonable rates. Fast service. Phone 272-2459.

VICTORIA REAL ESTATE: Experienced, knowledgeable realtor with faculty references will answer all queries and send information on retirement or investment opportunities. No cost or obligation. Call (604) 595-3200. Lois Dutton, REMAX Ports West, Victoria, B.C.

NOTARY PUBLIC: for all your Notarial Services including Wills, Conveyancing and Mortgages, contact Pauline Matt, 4467 Dunbar St., (at 28th & Dunbar), Vancouver, B.C. Telephone (604) 222-9994.

Miscellaneous

ALBION BOOKS AND RECORDS: Literature, art, music, philosophy, and more. Looking for records or tapes? We have blues, rock, collectible classical and jazz. We buy and sell. 523 Richards St., downtown Vancouver, 662-3113, every afternoon.

ATTENTION ALL UBC STAFF & STUDENTS: You can get at least 10% off everything in our stores. Network apparel, 2568 Granville Street, Vancouver. Canspirit Apparel, 3185 West Broadway, Vancouver.

FINDERS FEES: Significant sums to be earned for acting as a business intermediary. Absolutely no experience needed. Earn thousands for simply being the catalyst. Ideal for raising funds for yourself or the needs of charities. Write us for full information. Box 46136 Station G, Vancouver, B.C., V6R 4G5

Book by UBC professor wins French prize

The French edition of Fine Arts Professor Serge Guilbaut's book, *How New York Stole the Idea of Modern Art*, has been awarded the annual Prix des Libraires d'art de la Ville de Paris, for 1990.

Originally published by the University of Chicago Press in 1983, art historian Guilbaut's acclaimed book was published in French in 1989 by

Editions Jacqueline Chambon of Nîmes, France.

How New York Stole the Idea of Modern Art, which documents the rise of Abstract Expressionism in post-war New York City, has also been recognized as one of the most important books published since 1945 in a special issue of the Parisian magazine *Actuel*, devoted to the ideal library.



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Faculty of Arts

Teaching Prizes - 1991

Five \$5000 prizes to recognize excellent teaching in the Faculty of Arts

Faculty, students or alumni may suggest candidates to the Head of the Department or Director of the school in which the nominee teaches.

DEADLINE for nominations reaching the Dean's office is 15 MARCH 1991.

Further details from Heads or Directors or the Dean's Office (228-4627)



Photo courtesy of Bellis Fair Mall

American and Canadian cars at Bellis Fair Mall in Bellingham: 50% of mall's patrons are from Canada.

Local shoppers go south

By ABE HEFTER

Here's a word of advice for shoppers who travel that extra kilometre to purchase goods in the U.S. in an effort to save money: Try checking out your own backyard first.

It's not unusual for Vancouver-area residents to pile into their cars on the weekend and travel to cities like Bellingham, Wash. to purchase anything from shoes to cheese. But Tim Hazledine, professor of Agricultural Economics and an eagle-eyed comparative shopper in his own right, said when you consider the time and costs involved in making that trip, it may not be worth it.

"There's little doubt that Canadian consumers can save up to 25 per cent by shopping in the U.S. But much of that saving can be wiped out by the costs associated with making that trip," he said.

Hazledine said a study done last year by one of his students compared the prices of 20 items purchased at a Vancouver supermarket to the prices of 20 similar items bought at a Bellingham supermarket. The study found that the goods were 25 per cent cheaper in Bellingham.

"There are several reasons for this," said Hazledine. "One is the value of the Canadian dollar. Another, at least

in the case of dairy products, eggs, beer and wine, is because distribution of these goods is tightly regulated in Canada. As a result, their prices are kept high."

Hazledine said he can sympathize with people who go the U.S. to buy dairy and alcohol products in an effort to save money.

"However, speaking as a Canadian, I generally feel you should consume where you produce. Failure to do so hurts the fabric of the community. All the shops in and around the Vancouver area depend on people using them."

Wendy Ripley, marketing director for Bellis Fair Mall in Bellingham, said licence plate counts have revealed that up to 50 per cent of the mall's patrons are from Canada. The Vancouver area is a prime direct-mailing target when it comes to the mall's major marketing events.

"Canadian shoppers are big on shoes, leather goods, linen and clothing," she said. "Although there are no grocery stores at the Bellis Fair Mall, I understand many Canadians like to shop for food in the Bellingham area, especially for cheese, while taking the opportunity to shop at the mall as well."

Hazledine said low-income wage earners stand to benefit the most from savings that can be had by travel-

ling to the U.S. However, they usually can't afford the transportation necessary to capitalize on those savings, he added.

"This is very much a middle-class consumer battle where a source of transportation is crucial to realizing any savings," he said.

However, Hazledine feels this is where comparative shopping can play a major role in reducing food bills.

"Consumers can save real money by shopping for no-name generic brands, or house brands. Generic products can be of lower quality, but certainly house brands tend to offer a first-rate product that is often indistinguishable from the national brands. It's really a case of perception."

Hazledine pointed to a study done by one of his students which compared the prices of national, regional, house and generic brands at a Vancouver supermarket.

"Ketchup, I believe, is a fairly standardized product," said Hazledine. "Yet in this study, the national brand of ketchup was 72 per cent more expensive than the generic brand in this particular supermarket. Price differences like this are enormous. Inside the stores themselves — that's where the biggest price variations exist."

Students form alternate Canada conference

By CHARLES KER

It's not yet known when the Citizens' Forum on Canada's Future will convene in Vancouver. However, a UBC student forum of the same name has planned a Canada conference of its own next month.

Alternative Visions: Canada in the 1990s, a conference sponsored by The Other Citizens' Forum, opens Feb. 15 with a panel discussion at the Frederic Wood Theatre. Scheduled for 7 p.m., panelists include Maude Barlow, chair of the Council of Canadians, playwright John Gray, Tom Berger, former judge, lawyer and author, and Jenny Jack, UBC law student and native rights advocate.

"We came up with our name before the federal government did," said student Mark Cameron, who helped create The Other Citizens' Forum in early October.

The federally appointed Citizens' Forum, announced in late October, is to report back to Parliament by July 1 with recommendations from its cross-country talks with Canadians.

Cameron and Steve Chase, both fourth-year Political Science students,

and Political Science Professor Philip Resnick, appealed to students in an open letter published in the Ubyssy, Oct. 2.

The letter called upon the university community to speak out and express their national concerns after the failure of Meech Lake.

"We had problems with the way Meech Lake was carried out behind closed doors at the last minute," said Cameron. "The idea behind our forum is to have a democratic process that is not being dictated by elected politicians, but by the people."

On Feb. 16, from 9 a.m. to 4:30 p.m., discussion workshops and a plenary session will be held in the Student Union Building. Topics will include regionalism and Senate reform, bilingualism and minority language rights, aboriginal issues, free trade and Canadian culture in the 1990s.

Parts of the conference will also be filmed by the National Film Board of Canada and used in a feature-length documentary about Canada's future.

Registration is \$20 for working adults and \$10 for students, seniors and the unemployed.

UBC phone numbers to change on March 4

Effective March 4, 1991, UBC is adopting a new prefix for most of its on campus telephone numbers. It will be "822" (or "UBC" if you use the letters on your telephone's dialer.)

If your current number is in one of the following blocks:

222 - 8600 to 8699

- 8900 to 8999

224 - 8100 to 8599

228 - 2000 to 7999

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If your current number is not in one of the above blocks, your telephone number will remain as it is.

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0000 to 1099

1200 to 1999

8700 to 8899

and it will be reached from on campus by dialing 3-xxxx.

Study draws links between family mental illness history and post-birth depression

By CONNIE FILLETTI

Women with a history of family mental illness may be at increased risk for depression following childbirth.

A study by UBC psychiatrist Dr. Shaila Misri concludes that women, with at least one blood relative with a history of psychiatric illness, are more likely to become depressed after giving birth.

Postpartum depression may appear as early as two weeks and as late as nine months after giving birth. Symptoms include tearfulness, fatigue, insomnia, feelings of inadequacy and hopelessness, irritability and the inability to cope with infant care. In extreme cases, women may also become delusional and suicidal.

Between 10 to 12 per cent of Canadian women

suffer from postpartum depression, but only one to two per cent seek psychiatric help, Dr. Misri said.

She added that the baby is also affected cognitively and emotionally by the mother's depression and the longer the woman goes untreated, the more significant the effects on the child.

"It is possible that these babies may develop ongoing problems such as learning disabilities and depression," Dr. Misri said.

Women aged 25 to 40 with no prior history of depression related to childbirth participated in the study.

Of the 250 participants interviewed by Dr. Misri and a colleague, 50 women were randomly chosen for appraisal.

In total, 54 per cent of the women selected

had family histories of psychiatric disorder. Of these, 34 per cent had reported depression in first- or second-degree blood relatives such as a parent, grandparent, cousin, aunt or uncle.

The study also indicated that almost 50 per cent of the patients had experienced a previous episode of psychiatric illness. Of this group, 30 per cent specifically suffered from a depressive illness.

Other reasons for postpartum depression include chronic marital problems, lack of support from family and friends and unresolved conflicts from childhood.

Dr. Misri explained that women suffering from postpartum depression, no matter what the cause, are treated with supportive psychotherapy, group

therapy and antidepressants.

"What we do hope for the future, however, is that women at high risk for postpartum depression will be identified and treated earlier," she said.

Dr. Misri advised women to talk to their family practitioners about their emotional well-being when a child is born.

"Motherhood is traditionally seen as a time of joy and fulfillment for a woman," she said. "Women become afraid when they feel the contrary and there is danger in that. Although postpartum depression is a serious illness, it is a treatable one. Our main concern is that women recognize their right to talk about it to ensure they receive proper referral and treatment."