# Close some branch libraries, review committee proposes

By GAVIN WILSON

Some branches of the university library may be closed and circulation of academic journals restricted if recommendations currently being considered by President David Strangway are

Proposals from an external review committee also call for increased government funding of the library above the university's current operating budget. This funding should be "vigorously pursued" to reflect the true costs of running a library which serves as a provincial

resource, the committee's report said.

Chaired by McMaster University librarian Graham Hill, the committee was established to review library services and management, its role as a provincial resource, strategies for maintaining collections and the impact of information technology. The report was recently released for public scrutiny.

CRANE STAYS, Page 2

It found that library users were near unanimous in their praise of the library, but expressed concern over its future due to financial restraint.

Strangway said the report is a thoughtful one that "doesn't pull any punches."

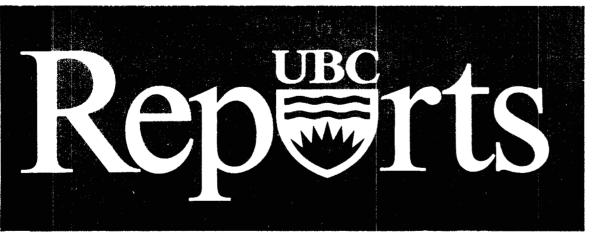
"It says there are things we can and must do internally. But none of it takes away from the fact that we have a really first class library that is serving the community very effectively and which needs our continued support," he said.

One recommendation calls for a gradual reduction of the number of branch libraries -- there are currently 15 -- and a centralization of collec-

"There is a clear dollar cost to provide the convenience and personalized service of a highly decentralized library system," the report stated.

But any move to centralize library collections would have to wait until proposed new library space is constructed, said University Librarian Douglas McInnes. The Main Library, one of the oldest buildings on campus, is already overcrowded, he said.

See FEW on Page 2



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

Volume 35, Number 3 Feb. 9, 1989



Students protest against a 10 per cent fee increase outside the Faculty Clubslast month while the Board of Governors ponders the issue inside.

'Agonizing decision'

## Board approves tuition rise

**By JO MOSS** 

UBC's Board of Governors deliberated for more than three hours before making what President David Strangway called an "agonizing decision" to approve a 10 per cent tuition fee increase.

The proposal came from the university administration which was concerned about maintaining the quality of education. Strangway said it was the fundamental issue in the board's discussions.

"The decision was not made lightly. We must do whatever we can to preserve the quality of education at UBC," Strangway said.

About 600 students staged a noisy demonstration and rally outside the Faculty Club, where the board meeting was held Jan. 26, to protest against the fee hike which takes effect in the Fall.

Students representing the Alma Mater Society and the Graduate Student Society delivered formal presentations to board members before the vote asking them to reconsider the increase.

Peter Brown, Board of Governors chairman, said in a statement to reporters afterwards, that the university must balance its books.

"We don't have a choice," Brown said. "The feeling of the board is that if we are asked to do further cuts, we go right to the quality of education itself."

See STUDENTS on Page 2

## Fines may aid students

By PAULA MARTIN

University administrators are considering a student proposal to funnel parking fines collected on campus into a student bursary fund.

"We think it's a good idea," said K.D. Srivastava, Vice-President of Student and Academic Services, who estimated the annual revenue at \$150,000. "Assuming it is all available, we would like to put it toward a university bursary endowment fund and the income from the fund would be used to help students in need."

The idea was proposed at a meeting between senior administrators and student representatives who met to discuss student concerns about the tuition fee increase.

## Victoria gives **UBC \$750,000** to plan building

By GREG DICKSON

The provincial government will provide \$750,000 to develop architectural plans for UBC's new Academic and Administrative Services Building and the Brock Hall Student Services addition.

This will enhance the efficiency and effectiveness of the university's operations," said Advanced Education Minister Stan Hagen. "It's an investment in increased productivity."

UBC President David Strangway said he was extremely pleased with the govemment's announcement.

"The various academic and administrative units are inadequately housed, often in derelict huts that pose fire hazards and have been condemned by the fire department. The safety of workers is a major concern," Strangway said.

The \$14-million project will allow the demolition of the huts which date back to the Second World War.

The Brock Hall addition is part of UBC's master plan to put all student

services under one roof. The Registrar's Office, the Student Housing and Conference Department and the Awards and Financial Aid office will be part of the same complex as the Counselling and Resource Center.

"This will provide a signifigant improvement in the services provided to students at UBC," said Strangway.

Ministry officials expect planning to be complete by the Fall, when the final budget will be submitted to cabinet. Construction should be complete by the Fall of 1991.

## New research facility brings PhD program in Nursing step closer

**By JO MOSS** 

UBC's School of Nursing will move one step closer to establishing a PhD program with the opening of its new nursing research unit, Feb. 23.

"One of the very important things we have to do in implementing a doctoral program is to develop a strong research program within the school, 'said Dr. Marilyn Willman, director of the UBC Nursing School. "The unit will provide

Elspeth Cameron

opens MH Chair

coordinated support so that research activities can be carried out more tively."

The research unit is located on the third floor of the University Hospital in the nursing school.



Willman

Nursing research plays a large role in improving the quality of Canadian health care, said Willman. Cross-cultural health care, the management of chronic illness and disabilities, aging, and family health care, especially of women and children, are some of the issues which school researchers are addressing.

Related to the establishment of the research unit is the school's new visiting research scholar program. The first of these scholars is Dr. Agnes Aamodt, professor emerita at the University of Arizona, who will spend two weeks at the school. The official opening ceremony of the unit will be followed by Dr. Aamodt's public lecture on culturally sensitive health

#### lecture series By PAULA MARTIN

Canadian author Elspeth Cameron opened UBC's Maclean Hunter Chair lecture series yesterday, speaking on the writing of Creative Non-fiction and Literary Biography.

Authors Peter C. Newman, Pierre Berton and Susan Crean will deliver the remaining lectures in the series over the next few weeks.

See NEWMAN on Page 2

## Crane to stay in UBC system as Strangway rejects proposal

By GAVIN WILSON

Crane Memorial Library will remain part of the university library system, despite a recommendation it be taken over, by the provincial government, President David Strangway said.

The recently released report of the review committee for the library recommended the university hand over financial responsibility for the library to the province as a cost-saving measure.

It suggested Crane then be consolidated with other services for the blind and visually impaired as part of a new unified service.

But the president has rejected the proposal, calling the library "a critical service for UBC students.'

"I don't think that makes any sense at all to somehow spin it off from the university," Strangway said. "It's too important for UBC. We have recently made some strong commitments to the interests of the disabled.'

### **Strangway** helps set science policy

A new science and technology policy recently adopted by Victoria will help lead British Columbia into the 21st century, says UBC President David Strangway.

The policy was drafted by the Premier's Advisory Council for Science and Technology with the help of Strangway, who is a

The nine policy statements are intended to guide research, development and application efforts in science and technology from now to the year 2000.

The policy statements are:

Support the use and development of technological innovations that build on existing strengths and capabilities and that have export potential.

Encourage the use of science and technology to improve the quality of life for British Columbians through protecting and improving our natural, man-made and cultural environments, and do so in a way that produces products and services that can be exported.

Recognize the importance of basic research and encourage applied research of an international calibre in areas that contribute significantly to B.C.'s economic development and competitiveness.

Foster entrepreneurial enterprises and encourage partnerships among post-secondary institutions, government, industry and labor that will promote technology transfer and encourage commercialization of the results of basic and applied research.

Support the development of marketing programs that take advantage of B.C.'s unique geographical location and cultural makeup.

Strengthen the science and technology components at all levels of the education system so that scientific and technological literacy is improved, more people are attracted to careers in science and technology and our universities continue to produce graduates and research of the highest cal-

Encourage government, institutions, industry and labor to communicate the benefits of science and technology to the general public so that the public supports science and technology policies and initiatives.

Make education programs available in science and technology to enable retraining, upgrading and acquisition of new knowledge to ensure an educated and adaptable work force in the trades professions.

Provide a level of direct government financial support for technology-intensive industries that will enable B.C. to be competitive nationally and internationally.

The university will, however, consider asking Victoria for additional funding in recognition of the community services offered by Crane, Strangway said. Crane's portion of the total library operating budget is about \$230,000 annually.

Crane head Paul Thiele called the proposals's rejection "wonderful news."

"I'm pleased to hear that. It's cer-

Crane provides taped versions of textbooks required by blind or visually impaired students as well as reference material for sighted students in fields such as social work and nursing. It also has a large collection of braille books and some personal computers equipped with voice

## Few staff to lose jobs if branches are closed

Continued from Page 1

Closure of small branch libraries would have little impact on staffing levels, McInnes added.

The report also urges that the library end within the year a policy of circulating journals and compensate for this with an increase in the number of photocopiers.

McInnes said he personally did not want to see users inconvenienced by more circulation restrictions even though a blanket policy keeping journals on the shelf would be simpler for the library.

"I think we should move toward this policy gradually, looking at the problems it may create for certain areas and disciplines," he said.

The library, Canada's second largest, provides services for the general public, the medical, legal and business professions, supports distance education and offers interlibrary loans for B.C.'s other universities and colleges.

But before requesting additional funding from the province, Strangway said, the university must be sure that every step has been taken to make the library efficient and cost-effective.

Among the 25 recommendations being considered are:

Place a ceiling on the proportion of the \$5-million annual acquisition budget spent on serial publications. Currently, serials account for about 60 per cent of the budget, a figure that has been increasing in recent years due to rapidly climbing

Institute a zero-net-growth limit on the number of current journal subscriptions for at least two years.

Establish a new circulation system to replace the current one.

Push ahead with computerization of the catalogue system.

The review, submitted to Strangway in July, has since circulated to deans, vice-presidents, the Senate library committee and senior library staff. Input is now being sought from the wider university community. A copy of the executive summary will appear in the next edition of UBC Reports.

"We're asking library users to give thoughtful consideration to the recommendations and then offer insights that we can incorporate as we develop a final administrative position," Strangway said.



for B.C.'s schools

By GAVIN WILSON

On TV, scientists wear white lab coats, not suits, said 12-year-old Julie Brown, a Grade 7 student at Stride Avenue elementary school in Burnahy

Added classmate Dave Raposo, 13: "I always thought that a scientist was someone who used big words all the

The students had just met a real scientist, geophysicist and UBC President David Strangway, for the first time as their school played host to the official launch of a new provincial government program called Scientists in the Schools.

"Our goal is to provide every student in B.C. with the opportunity to meet a scientist face-to-face at least once during their time in school," said Stan Hagen, Minister of Advanced Education and Job Training, and Minister Responsible for Science and Technology. "We hope to leave the impression that there are excellent careers in science."

Strangway told the students how he led experiments on the first lunar rock samples brought back to earth and taught geology to astronauts. He showed slides of planets and answered questions about temperatures on Venus and the atmos-

Joining him on the first day of the program were Tony Arrott of SFU, Reg Mitchell of UVic and Sharon Proctor of the Vancouver Public Aquarium.

In the coming months, dozens of scientists and engineers, from universities, research institutes and private industry will be volunteering their time to visit elementary and high school students through B.C. to help boost awareness of science and technology.

"It isn't too soon to be considering what our province is going to be like in the 21st century, It's only 4,000 days away," Hagen told an assembly of students, teachers, parents and dignitaries at the school.

If current trends continue, he said, the high tech industry will be B.C.'s third largest employer by 1995, when some of today's elementary students will be graduating from high school.

Posters and brochures for the program prominently feature a photograph of UBC microbiology professor Julia Levy, and other UBC researchers and projects are also mentioned.

The message was not lost on Lisa Bourdages, 11, who said: "If more scientists come to the schools then more people will get the idea to become scientists.

## Students disappointed with decision to raise fees

Continued from Page 1

UBC faces a budget shortfall of several million dollars this fiscal year and is already implementing cuts of one per cent, about \$2-million. While tuition fees represent only a small part of the university's budget--about 15 per cent--Strangway and Brown said UBC must make

Students who waited outside the closed meeting to hear the vote outcome said they were disappointed and angry. Tim Bird, president of UBC's Alma Mater Society and one of the students who made a last-minute appeal to the board, said UBC will lose good students as a result of the decision.

"It's bad news for students who are on maximum student loans already," Bird said. "A number of students won't be going to UBC next year because they simply can't afford it."

Vanessa Geary, one of the organizers of the student protests, described the decision as "absolutely outrageous." 'The board is clearly not listening to the students of this campus," she said.

Barry Jones, NDP MLA for Burnaby North and Education critic, addressed students at the rally as did Gordon Wilson, leader of B.C.'s Liberal Party, and Sandra Bruneau, program coordinator in UBC's Faculty of Education.

UBC's Board of Governors vote comes on the heels of a decision by Simon Fraser University to scale down tuition increases to six per cent and to cut enrolment by 10 per cent. Strangway said UBC has no plans to cut enrolment adding that the university was "committed to accessibil-

UBC plans to increase graduate student enrolment by 2,000 places and is working with B.C. colleges to create new degree-granting institutions in the prov-

### Newman, Berton to give lectures

Continued from Page 1

"These writers are the major practitioners of Creative Non-fiction in Canada," said George McWhirter, head of UBC's Creative Writing department.

UBC's new Maclean Hunter Chair of Non-fiction and Writing on Business will be held by Susan Crean during February and March, 1989.

"This chair acknowledges the importance of this form of writing and the pioneering work of Robert Harlow, who introduced it to the Department of Creative Writing in 1973," said McWhirter, who added the department will introduce its new diploma in Creative Non-fiction

The remaining lectures at UBC are: Feb. 24 -- Peter C. Newman, Creative Non-fiction and Writing on Business and Politics, 12:30 p.m., Frederic Wood Theatre

Mar. 17 -- Pierre Berton, Creative Non-fiction and the Writing of Popular History, 12:30 p.m, Frederic Wood The-

Mar. 29 -- Susan Crean, Creative Nonfiction and Writing on Canadian Culture, 12:30 p.m., Room A100, Buchanan Building.

## Increased power cause for CITK celebration

**By JO MOSS** 

Ground Hog Day, Feb. 2, was more than a celebration of the end of winter, it was also the day UBC's student radio station CITR officially broadcast at high power on 1800 watts.

Station staff released balloons in front of a 25-foot inflatable ground hog to mark

The station has been trying for several years to increase its broadcasting power from 49 watts, a signal so weak that tuning in was more by accident than design. Commercial radio stations broadcast at 50,000 watts.

With approval from the federal regulator last September, the station invested \$100,000 in new equipment and will now

reach listeners in communities as far away as Abbotsford, Tsawwassen, Point Roberts, Lions Bay and Bowen Island, as well as in the Lower Mainland on 101.9 FM.

The signal is also carried on some FM cable systems and the station has plans to extend cable service throughout B.C.

A non-profit, non-commercial student run station which started up in 1937, CITR's diverse and distinct music and programming is unlike anything available on private radio. Flare magazine once described it as "the hottest radio station in Canada."

With the signal boost, station staff are implementing 24-hour programming.

PICTURE ON PAGE 4

# Clement named coach of the year

Dr. Doug Clement, the co-director of UBC's Alan McGavin Sports Medicine Clinic, has been named coach of the year for 1988 by Sports B.C.

Dr. Clement coached middle-distance runners on Canada's track team at the Seoul Olympics.

Thunderbird hockey player Penny Coo-

per received the Harry Jerome/Comeback Award. She overcame a serious ligament injury in 1986 and went on to play for the All-Canadian team.

The Sports B.C. awards recognize coaches and

amateur athletes in 10 categories and are judged by a panel of journalists.

Economics professor Charles Blackorby has been elected a fellow of the Econometric Society, an international society which promotes the advancement of economic theory and its relationship to statistics and mathematics.

Blackorby, who teaches microeconomic theory, is one of six Canadian fellows elected to the honorary

Two other UBC professors, Christopher Archibald and Erwin Diewert -- both of the Economics department -- were previously elected to the society.

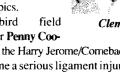
John Petkau, professor of statistics, has been elected to membership in the International Statistical Institute (ISI). The ISI is a large international statistical organization with a strict quota, by country, for membership. To be successful, nominees must have achieved international recognition for their contributions to statistics, especially through research.

Petkau's research has led to a methodology that can enable early termination of scientific experiments with large savings in resources.

The provincial government has appointed Paul Thiele chairman of the newly created Premier's Advisory Council for Persons with Disabilities. Thiele is librarian and head of the Crane Memorial Library.

The council will advise the province on a wide range of issues relating to people with disabilities, offer advice to disabled individuals and consult with advocacy and service organizations about government services.

Thiele is the founder of the Crane library, a resource centre for the blind and visually impaired, and has a lengthy record of affiliation with public and community services and professional and disabled organizations.



Pharmacology and Therapeutics Seminar

Microdialysis Studies in the Rat Striatum Do Not Support the Dopamine-Acetylcholine Interaction Hypothesis. Dr Geert Damsma, UBC and Department of Medicinal Chemistry, Centre of Pharmacy, The Netherlands. For information call 228-2575. Room 317, Basic Medical Sciences Bldg. "C". Noon

Information Display

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Safety Days, displays by RCMP, Fire Department, ICBC, B.C. Safety Council, Red Cross, etc. For information call 228-7011. SUB Main Concourse. 11:15 a.m.-2 p.m.

Asian Research Brown Bag Seminar

Farmers as Researchers. The Integration of Formal and Informal Research and Development Systems in Developing Countries. Dr. Stephen Biggs, Visiting Professor, Dept. of Agricultural Economics. For information call 228-2746. Seminar Room 604, Asian Centre. 12:30

**Noon-Hour Series** 

Lisa Smith, Guitar. Admission \$2. For information call 228-3113. Recital Hall, Old Auditorium. 12:30 p.m.

Financial Planning Seminar

Retirement Planning - The UBC Pension Plan.Maureen Sirnons & Marcelle Sprecher, UBC Personnel Services. Open to Faculty Association members and spouses. Free. Repeat of Feb. 20 session. For information call 222-5270. Lecture Hall #5, Woodward IRC Bldg. 12:30-

**Enalish Colloquium** 

Differentiation in Oral and Written Narratives. Dr. M. Macaulay, English. For information call 228-5122. Penthouse, Buchanan Bldg. 3:30 p.m.

Geography Colloquium

Development and Revolution: The Nicaragua Experience. John Brohman, Geography, SFU. For information call 228-2663. Room 201, Geography Bldg. 3:30 p.m.

Huron Sample. Peter Huron Quartet. Free. For information call 228-3203. Fireside Lounge, Graduate Student Centre. 6:30-9 p.m.

**Power Play** 

Sanctuary? by the Headlines Theatre. It was first performed at the '88 Vancouver Fringe Festival. It was ery successful experiment named as a result of an eight day workshop with people who are refugees. The play is on a tour of the Lower Mainland. Tickets are \$4 in advance, \$5 at door. Come early for good seats. For information call 228-3203. Ballroom, Graduate Student

**Forestry Seminar Series** 

The Role of Small Mammals in the Reforestation Program of British Columbia. Dr. Thomas Sullivan, Applied Mammal Research Institute, Langley. For information call 228 2507 or 228-4166. Room 166, MacMillan Bldg. 12:30-

Microbiology Seminar

Towards Immunological Measures of Similarity. Dr. Geoff Hoffman, UBC. For information call 228-6648. Room 201, Wesbrook Bldg. 12:30 p.m.

Advisor's Night

Advice to all part-time or prospective part-time students. Advisors from the Registrar's, Awards & Bursaries, Student Housing, Library, Women Students, faculties of Arts. Education. Science and Commerce as well as general information. For information call 228-2657. Upper Lounge, International House. 6-8 p.m.

#### THURSDAY, FEB. 23

#### Leon & Thea Koerner Memorial Lecture Philosophy Lecture

On the Possibility of Time Travel. Dr. Paul Horwich, Prof. of Philosophy, Massachusetts Institute of Technology. For information call 228-2511. D-239. Buchanan Bldg.

**Gerontology Lecture** 

Aging and Age Cohort Differences in a Medical Perspective. Dr. Alvar Svanborg, Prof. of Medicine, Section of Geriatric Medicine, and Clinical Director of Research in Gerontology, The U. of Illinois, sponsored by Royal College of Physicians and Surgeons of Canada. For information call 228-2081.

7027/2185. Room 60 (Theatre), Family & Nutritional Sciences Bldg. 12:30-2 p.m.

#### Ocean Sciences Seminar

Marine Mine Tailings Deposits and Metal Reactivity: How Serious is the Problem? Dr. T.F. Pedersen, UBC. For information call 228-5210. Room 1215, Civil & Mechanical Engineering. 3:30 p.m.

**CICSR Distinguished Lecture Series** 

Computer Animation In The Film Industry. Dr. William T. Reeves, P.I.X.A.R., San Rafael, California. Title: Computer Animation: The search for the Promised Land - film credits include "Star Trek II: The Wrath of Kahn, Return of Jedi, Young Sherlock Holmes, etc. For information call 228-6894. Room 104, Henry Angus Bidg. 11:30 a.m.

School of Music

UBC Stage Band. Fred Stride, Director. Admission Free. For information call 228-3113. Recital Hall, Music

**Faculty Concert Series** 

Alexandra Browning, soprano and Rena Sharon, piano. Information lecture at 7:30 p.m. Admission: General \$8, Students/Seniors \$4. For information call 228-3113. Recital Half, Music Bldg. 8 p.m.

**Nutritional Sciences Special Lecture** 

Nutritional Aspects of Severe Trauma. Edward E. Tredget, Dept. of Surgery, U. of Alberta. For information call 228-4670. Lecture Hall #1, IRC Bldg. 1 p.m.

**Nursina Public Lecture** 

What is Culturally Sensitive Health Care? Dr. Agnes Aamodt, Prof., U. of Arizona, College of Nursing. For information call 228-7481. Lecture Hall #2, IRC Bldg. 8

Comparative Literature Colloquium

Sexual Politics and the Enlightenment Allegory of Identity in Montesquieu's Persian Letters. E.J. Hundert, UBC. For information call 228-5157. Penthouse, Buchanan

**Medical Grand Rounds** 

Bone Marrow Transplant Update. Dr. M. Barnett, Haematology, VGH. For information call 228-7737. Room G-279, HSCH-ACU. Noon.

Double Bill from the U.S. 1. Bullit. 2. The French Connection. Free, For information call 228-3203, Fireside Lounge, Graduate Student Centre. 6:30-10 p.m.

**Childhood Revisited Series** 

Prairie Girlhoods. Margaret Prang (History); Margaret Brown (Language Education); Billie Housego (Educational Psychology); Margaret Fulton (Past University President). Room 209, Scarfe Bidg. 12:30 p.m.

FRIDAY, FEB. 24

**Creative Writing Lecture** 

Business Writing and Politics, Peter C. Newman, Lecture series sponsored by the Madean Hunter Chair of nonfiction and writing on business. For information call 228-2712. Frederic Wood Theatre, 12:30 p.m.

**Pediatric Grand Rounds** 

Some New Thoughts on the Grieving/Readjustment Process in Chronic and Terminal Illness. Nancy Reeves, Registered Psychologist, Director, Island Loss Clinic Rehab Centre. 9 a.m.

Pharmaceutical Seminar

Biosciences Bldg. 3:30 p.m.

A role for Second Messengers in the Contraction of Airway Smooth Muscle, John Langlands, UBC, For information call 228-2270. #3, IRC Bldg. 12:30 p.m.

Chemical Engineering Seminar

Cyclone Modelling. Mr. Randy Engman, Graduate Student, Chemical Engineering. For information call 228-3238. Room 206, Chemical Engineering. 3:30 p.m.

Fisheries & Aquatic Science Seminar The Recruitment Problem in Marine Fisheries Dr. Mike Sissenwein, National Marine Fisheries Service, Wood Hole. For information call 228-4329. Room 2361,

Rock with the Fossil. John Fossum. Free. For information call 228-3203. Fireside Lounge, Graduate Student Centre. 7:30-Midnight

**Epidemiology Seminar** 

Projective Assessment of Child Abuse Using Children's Drawings. Dr. John Allan, UBC. For informati 2258. Room G65-66, IRC Bldg. 12:30-1:30 p.m.

**Medical Genetics Seminar** 

Adult Congenital Heart Disease. Dr. Victor Huckell, UBC. For information call 228-5311. Room D308, University Hospital, Shaughnessy Site. 1 p.m.

Theoretical Chemistry Seminar

Simple Quantum Chemical Concepts Examined by Electron Momentum Spectroscopy. S. Clark, UBC. For information call 228-3299 or 228-3266. Room 225, Chemistry Bldg. 3:30 p.m.

SATURDAY, FEB. 25

Social Work Workshop

Social Networks as a Base for Social Work Practice. Dr. Kathryn McCannell, UBC. Fee \$65/\$40 students, preregistration necessary. For information call 228-2576. Lecture Hall A, School of Social Work. 9:30 a.m.

THE VANCOUVER

#### INSTITUTE



Saturday, Feb. 18 Genetics and Health Care: Challenge and Choice Medical Genetics, UBC.

Saturday, Feb. 25

Distinctive Nations: The Values and Culture of Canada and the U.S. Professor Seymour Martin Lipset, Professor of Political Science and Sociology, Stanford University.

All lectures are in Lecture Hall #2, Woodward Instructional

#### **NOTICES**

**Tutors Needed** 

Tutoring Program at International House needs volunteer English tutors to help non-English speaking International students with their English. If interested, please pick up application form at International House. For information call Janise Yue/Hoang Nguyen at 228-5021. Room 1783 West Mall, International House.

Display/Photographic Exhibit

February 1989. Historic Hospitals of Europe, 1200-1981. An Exhibit of Photographs by Grace Goldin. For information call 228-4447. Memorial Room, Woodward Biomedical Library. 9-5 p.m.

**Exhibition of Japanese Architecture** 

Feb. 16-Mar. 12. M-F 9-4:30 p.m./S&S Noon-4:30 p.m. Ritual Renewal of Space in Kakunodate and Shirai Curated by Fred Thompson, Professor, School of Architecture, U. of Waterloo. This exhibit looks at the Japanese perception of public and private spaces, and explores the connections between the Japanese festival (o-matsuri) and Japanese architecture. For information call 228-2746. Auditorium, Asian Centre

Health & Safety Awareness Display Thurs. Feb. 169-5 p.m., Fri. Feb. 179-Noon. Safety

Exhibits. Numerous exhibits on Health and Safety Products and Services. For information call Dr. Robert Morrison at 875-2354. SUB Concourse.

Continuing Ed. Short Course

Feb. 15-Apr.26 (10 Weds.) (No class Mar. 29). Moving from the Inside Out - A Dance/Movement for Women Susan Inman, MA, Dance Therapist, Registered. Always thought you were a klutz? Feel uncomfortable, awkward or clumsy in physical activity? Then this course, devoted to gaining confidence through physical means, is for you. Fee \$120. For information call 222-5238. Music Room, Asian Centre 7:30-9:30 p.m.

Continuing Ed Workshop

Sat. & Sun., Feb. 25/26. Intimacy: Developing Emotional Closeness. Dr. Arthur Flidgeway, Registered Psychologist. Fee \$116. For information call 222-5238. Room 2N,

Continuing Ed. Seminar

Sat. Feb. 25 9-4 p.m. Wed. Mar. 17:30-10 p.m. Weekend seminar with a follow-up evening to understand the impact of culture on identity and interpersonal interactions. Communicating Across Cultures. Scott Lawrance and Swinder Jheeta both have master's in Counselling Psychology and specialize in cross-cultural counselling and communication. Fee \$48. For information call 222-5261. Room 604, Asian Centre.

Reading, Writing & Study Skills

Improve your reading speed and comprehension, composition, speech, study skills and vocabulary. The UBC Reading, Writing and Study Skills Centre is offering 19 non-credit courses this term, including Reading for Speed and Comprehension, Writing Business Letters and Memos, Writing Proposals, Robert's Rules-Demystified, Thinking and Communicating on Your Feet, Media Interview Techniques, ECT Workshops, as well as three correspondence courses. For registration information phone 222-5245.

Women Students Workshop

Final Two Workshops. Tuesdays, Feb. 14, 21. Basic Social Assertiveness. This workshops provide an introduction to basic communication skills. Participants will be given the opportunity to learn more ef methods of expressing themselves and their needs in a wide range of social settings - from classrooms to relationships. Free to UBC students. For information call 228-2415. Room 106A Brock. 12:30-2:20 p.m.

Women Students Workshop

Final Workshop. Wednesday, Feb. 15. Women and Self Confidence - Learning to Like Who We Are. Women and Self-Confidence focuses on overcoming shyness and building self-esteem. Free Workshop. Registration Required. For information call 228-2415. Room 204D, Brock. 12:30-2:20 p.m.

Women Students Workshop

Three Session Workshop. Final Workshop. Feb. 23. Essay Anxiety. Nancy Horsman will give one-hour workshops to assist students increase their skills in preparation of essays. Free to UBC Students. For nformation call 228-2415. Room B.212, Buchanan

Women Students Workshop

Final Workshops. Friday, Feb. 24, Mar. 3. Self Esteem and Body Image - Maybe I'd Like Myself More If It Weren't For My Body, Free to UBC Students. For information call 228-2415. Room 106A, Brock. 12:30-2:20 p.m.

Continuing Ed. Workshop

Final Workshop. Tuesday, Feb. 21. The Basics of Nutrition. Vasanto Crawford. Fee \$58. For information call 222-5238. Room G65/66, IRC Bldg. 7-10 p.m.

Continuing Ed. Workshop

Final Workshop. Thursday, Feb. 16. Eat Better-Drink Less: How to Control Alcohol Consumption Through Diet. Vasanto Crawford, Registered Dietician and Nutritional Counsellor. Which foods upset the body's chemistry? What sort of eating patterns can be protective? These questions will be explored in detail to enable participants to put together eating patterns for themselves and their families. Fee \$58. For information call 228. 5238. Conference Room, Carr Hall. 7-10 p.m

Language Programs & Services

All programs start week of January 30. French in Action, the highly successful French television program on KCTS9 Saturday mornings, will serve as the basis for a multi-media French language program offered on Tuesday nights, Thursday afternoons and Saturday mornings French conversation classes at the intermediate and advanced levels vill continue on Thursday evenings.

Beginner Spanish, Japanese, Mandarin and Cantonese classes will be offered on Tuesday nights and Saturday mornings. Elementary and advanced levels in all languages will be offered on Thursday nights. Spanish Imme Program in Cuernavaca, Mexico, February 27-March

For more information call 222-5227

**Evening English Language Courses** Until Mar. 8, 1989. Mon & Wed. 7-9 p.m. Conversation

skills, beginner to advanced. Speech fluency and pronunciation, advanced. \$175 per course. For information call 222-5285. Room 109, 2062 West Mail Hut M-18.

Walter Gage Toastmasters Wednesdays. Public Speaking Club Meeting. Speeches and tabletopics. Guests are welcome. For information call Sulan at 224-9976. Room 215, SUB. 7:30 p.m.

Language Exchange Program

Ongoing. Free service to match up people who want to exchange their anguage for another. For information call Mawele Shamaila, International House at 228-5021

Free translation/interpretation services offered by International students and community in general. For information call Teresa Uyeno, International House at

Language Bank Program.

International House

E.S.L. Classes and Keep Fit Classes. All classes are free. For information call 228-5021.

Native Expressions Every Tues. night at the Extra Extra Bistro, 3347 West Broadway, from 8-10:30 p.m. \$3 at the door. Native performers and creative artists on stage. For information call Kathy at 222-8940. Proceeds to First Nations

Special Issue on Africa and the French Caribbean

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

Department of Psychology

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

Parents Wanted

Couples with children between the ages of 5 and 12 are wanted for a project studying parenting. Participation involves the mother and father discussing common child-rearing problems and completing questionnaires concerning several aspects of family life. Participation will take about one hour. Evening appointments can be arranged. Interpretation of questionnaire is available on Johnston, Clinical Psychology, UBC at 228-6771

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

Fitness Appraisal

Physical Education & Recreation, through the John M. Buchanan Fitness and Research Centre, is administering a physical fitness assessment program to students students \$25, all others \$30. For information call 228

**Surplus Equipment Recycling Facility** All surplus items. For information call 228-2813. Every Wednesday Noon - 3 p.m. Task Force Bldg, 2352 Health

**Badminton Club** 

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

Neville Scarfe Children's Garden

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

Nitobe Memorial Garden

Open 10:00 a.m.-3:00 p.m., until Mar. 16. Monday -

**Botanical Gardens** 

Open 10:00 a.m.-3:00 p.m., until Mar. 16. Daily. Free.

#### **Applied Mathematics Seminar**

Analysis and Numerical Treatment of Singular Boundary Value Problems. Dr. Ewa B. Weinmuller, Technical University of Vienna. For information call 228-4584. Room 229, Mathematics Bldg. 3:45 p.m.

#### Physiology Seminar

Thermoregulation In Captive Beluga and Killer Whales. Dr. N. Kasting, UBC. For information call 228-2083. Room#1, IRC Bldg. 4:45 p.m.

#### **Hewitt Bostock Memorial Lecture**

Texts as Performance: Champagne Charlie and the Hit Songs of the Victorian Music Hall. Dr. Peter Bailey, Prof. of History, U. of Manitoba. For information call 228-5166. Room A-104, Buchanan Bldg. 12:30 p.m.

#### **Biochemistry Seminar**

Expression of Vit K-Dependent Plasma Proteins in Eukaryotic Cells. Dr. Cathy Berkener, Zymogenetics For information call Dr. C. Astell at 228-2142. Lecture Hall #4, IRC Bldg. 3:45 p.m.

#### **Hewitt Bostock Memorial Lecture**

Giamour and Parasexuality: The Victorian Barmaid as Cultural Prototype. Dr. Peter Bailey, Prof. of History, U. of Manitoba. For information call 228-5166. Penthouse, Buchanan Bldg. 3:30 p.m.

#### Illustrated Public Lecture

Zoroastrianism. Dr. Willard Oxtoby, Prof. of Religious Studies, Trinity College, U. of T. For information call 228-2515. Room 604, Asian Centre. 12:30-1:30 p.m.

#### **Dow Distinguished Lecturer**

Kinetics of Oxygen Bleaching. Prof. J. Hsieh, School of Chemical Engineering, Georgia Inst. of Tech. For information call 224-8560. Room 101, Pulp & Paper

#### Mechanical Engineering Seminar

Gas Separation Techniques Applied to Energy Conversion Cycles. Dr. Bowie Keefer. For information call 228-4350. Room 1215, CEME Bldg. 3:30 p.m.

#### Financial Planning Seminar

Retirement Planning - RRSP's, Annuities & RRIF's Explained. Open to Faculty Association Members and Spouses. Free. For information call 222-5270. Room 104, Henry Angus Bldg. 12:30-1:20 p.m.

#### **Neuroscience Discussion Group**

Fetal Brain Transplants in Parkinsonian Monkeys. Dr David M. Jacobowitz, Laboratory of Clinical Sciences, NIMI-NIH, Bethesda, Maryland. For information call Dr. Peter B. Reiner at 228-7369. Room 2NA/B (second floor, north wing), Psychiatry Bldg. 9 a.m.

#### Astronomy Seminar

History of the Magellanic Clouds. Dr. Horace Smith, Michigan State U. Refreshments served. For information call 228-4134. Room 260, Geophysics & Astronomy

#### Paediatrics Research Seminar

Recent Advances in the Management of High Risk Pregnancy by Ultrasound. Dr. B.K. Wittmann, Vancouver. shments served. For information call Dr. J.P. Skala at 875-2492. Room D308, University Hospital, Shaughnessy Site. Noon.

#### TUESDAY, FEB. 14

#### **Biochemistry Seminar**

Oligosaccharyl Transfase: The Central Enzyme in the Pathway of the Biosynthesis of N-Link Glycoproteins. Dr Howard Kaplan, Dept. of Biochemistry & Molecular Biology, U. of Texas M.D. Anderson Cancer Centre. For ation call Dr. P.D. Bragg at 228-2792. Lecture Hall #3, IRC Bldg. 11:30 a.m.

#### Health & Safety Lecture

Safer Sex. Ken Mann from Aids Vancouver. In conjunction with Health and Safety Awareness Week. For information call 228-2029. SUB Concourse. Noon-12:45 p.m.

#### Information Display

Aids and Sexually Transmitted Disease (STD), sponsored by Student Health Services. For information call 228-7011. IRC Mall. 11:15-2 p.m.

#### Pharmaceutical Sciences Seminar.

Graduate Students. Topic to be announced. Mr. George Tonn, UBC. For information call 228-4887. #3, IRC Bidg.

#### **UBC Symphony Orchestra**

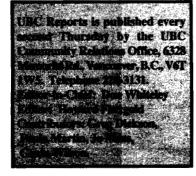
information call 228-3113. Recital Hall, Music Bldg

#### Modern Chemistry Seminar

Transformation of Small Organic Fragments at a Single Metal Centre. Dr. M.D. Fryzuk, UBC. Refreshments served. For information call 228-3266. Room 250, Chemistry Bldg. 1 p.m.

#### Statistics Seminar

Robustness Comparisons of Some Symmetrized and Non-Symmetrized Scale Estimators. Dr. J.R. Collins,



## calendar

Feb. 12 - Feb. 25



Staff at student radio station CITR release balloons to celebrate official opening broadcast at high power. (See story Page 2).

#### **CALENDAR DEADLINES**

For events in the period Feb. 26 to March 11, notices must be submitted on proper Calendar forms no later than 4 p.m. on Wednesday, Feb. 15 to the Community Relations Office, 6328 Memorial Rd., Room 207, Old Administration Building. For more information call 228-3131.

Dept. of Statistics, U. of Calgary. For information call 228-3319. Room 102, Ponderosa Annex C. 4 p.m.

#### Oceanography Seminar

Petrological Studies of Lavas from the Lamont Seamount Chain, Eastern Pacific: Implications for Sub-Spreading Ridge Mantle Processes. Dr. J. Allan, UBC. For ation call 228-5210. Room 1465, Biological Sciences

#### **Forestry Awareness Series**

A Native Perspective on Forestry. Earl Smith, Chief of the Ehatteshaht Band. For information call 228-6021 or 228-4488. Room 166, MacMillan Bidg. 12:30-1:30 p.m.

#### Health & Safety Awareness Seminar

Safer Sex. Ken Mann, Aids Vancouver. For information call Dr. Robert Morrison at 875-2354. SUB Concourse Noon-12:45 p.m.

#### WEDNESDAY, FEB. 15

#### Health & Safety Lecture

2449, Biosciences Bldg. 4:30 p.m.

Speed Kills. Staff Sargeant Chris Offer. Vancouver City Police. In conjunction with Health & Safety Awareness For information call 228-2029. SUB Concourse Noon-12:45 p.m.

#### Ecology/Resource Ecology Seminar

Community Change in an Old Growth Forest; Natural Disturbance, Time Scales, and Non-Equilibrium. Ken Lertzman, UBC. For information call 228-4329. Room

#### Pharmacology and Therapeutics Seminar

Radiolabelled Nucleoside. Mr. Robert J. Wanklin, UBC For information call 228-2575. Room 317, Basic Medical Sciences Bldg "C". Noon.

#### **Geophysics Seminar**

Seismic Tomography at Shell Canada. Dr. Dave Henley, Senior Staff Research Geophysicist, Shell Canada Ltd., Calgary. Refreshments served. For information call 228-5406. Room 260, Geophysics & Astronomy Bldg. 4

#### **APPLICATION FOR GRADUATION**

Application for graduation cards have been mailed to students registered in the 4th year of the degree programs: B.A., B.F.A., B.Mus., B.Com., B.Ed., B.P.E., B.R.E. and B.Sc. All students who expect to graduate this May (spring), should complete and return both cards to the Registrar's Office no later than FEBRUARY 15, 1989 Students in the graduating year of these programs who have not received cards in the mail should check with the Registrar's Office (by phone at 228-4455) that his/her local mailing address is correct.

Students in Applied Science, Graduate Studies or diploma programs should obtain "Application for Graduation" cards from their departments, while those in the remaining degree programs should obtain applications from the

Dean's or Director's Office of their Faculty or School Application for Graduation" cards are also available in the Office of the Registrar.

PLEASE NOTE: EVERY STUDENT WHO EXPECTS TO GRADUATE MUST MAKE APPLICATION FOR GRADUATION BY THE GIVEN DEADLINE. STUDENTS WHO DO NOT APPLY WILL NOT BE CONSIDERED

#### Asian Research Brown Bag Seminar

Current Economic and Foreign Policies in Japan. Prof. Frank Langdon, Institute of International Relations. For n call 228-2746. Seminar Room 604, Asian Centre. 12:30-1:30 p.m.

#### **Psychiatry Academic Lecture**

Cancer and Sex. Dr. George Szasz, UBC. For information call 875-2025. Room D308. Acute Care Bldg, Shaughnessy. 8:30-9:30 a.m.

Information Science Open Meeting Personal Computers and Their Future in Information Retrieval. John Campbell, UBC. Open to all. For

information call 228-2499. Conference Room, Sedge

#### Career Opportunities Lecture

Foreign Language Translation in Government Service. Mr. Geoff Leckey, Multilingual Service Sector, Solicitor-General's Office, Ottawa. Some interview slots for language translation positions are available during Mr. Leckey's visit to UBC. If interested, call him at (613) 993,9042 or Institute of Asian Research at 228-4688 Room 302, Brock Hall. 12:30 p.m.

#### wednesday Music Series

John Loban, Violin and Rena Sharon, Piano. Admission \$2. For information call 228-3113. Recital Hall, Music Bldg. 12:30 p.m.

#### Music Night

Library. 4 p.m.

UBC Symphony Orchestra. Geoffrey Michael, Director Admission Free. For information call 228-3113. Old

#### Microbiology Seminar

The role of RNAse H in Plus-Strand Priming by Retroviruses. Dr. James Champoux, Dept. of Microbiology, U. of Washington. For information call 228-6648. Room 201, Wesbrook Bldg. 12:30 p.m.

#### Forestry Seminar Series

Conservation Issues in West Sclerophyll Forests of Southwestern Tasmania. Prof. J.P. Kimmins, UBC. For information call 228-2507 or 228-4166. Room 166, MacMillan Bidg. 12:30-1:30 p.m.

Live Jazz Warren Nipp - Finger Style Guitarist. Free Admission. For information call 228-3203. Fireside Lounge, Graduate Student Centre, 6:30-9 p.m.

#### **Graduate Student Dance**

The Day After Dance. Henry Young and His Rhythm and Blues Quartet. Tickets are \$2 in advance and \$3 at the

door. For information call 228-3203. Ballroom, Graduate Student Centre. 9 p.m.-1 a.m

#### Financial Planning Seminar

Retirement Planning - RRSP's, Annuities and RRIF's Explained. John Gives, Solguard Financial Ltd. Open to Faculty Association Members and Spouses. Free. Repeat of Feb. 13 session. For information call 222-5270 Lecture Hall #5, Woodward IRC Bldg. 12:30-1:20 p.m

#### Social Work Colloquium

Intervention Roles in Child Sexual Abuse - School's Role. Fran Grunberg, Education Coordinator, Vancouver School Board. Free. For information call 228-2576 Lecture Hall A, School of Social Work. Noon-1 p.m.

#### THURSDAY, FEB. 16

#### Social Work Evening Lecture

Changing the Work Place: Meeting Family Needs. Dr. Sharon Willms, UBC. Fee: \$10, preregistration necessary. For information call 228-2576. Lecture Hall A. School of Social Work. 7-10 p.m.

Double Bill from France. 1. Small Change. 2. Jules and Jim. Free. For information call 228-3203. Fireside Lounge, Graduate Student Centre. 6:30-10 p.m.

#### **Medical Grand Rounds**

CPC. Drs. Fleetham and Road, Respiratory Medicine. University Hospital, UBC Site. For information call 228-7737. Room G-279, HSCH-ACU. Noon.

#### Health and Safety Awareness Seminar

Drugs and Sports. Dr. Doug Clement, Sports Medicine Clinic. For information call Dr. Robert Morrison at 876-2354. SUB Concourse. Noon-12:45 p.m.

#### FRIDAY, FEB. 17

#### **Appreciation Coffee**

Annual coffee in appreciation of the University's Safety Committee volunteers. For information call 228-2029. SUB Concourse. 9:30-11 a.m.

#### **Pediatric Grand Rounds**

Update on Bone Marrow Transplantation. Drs. P. Rogers, K.W. Chan, S. Pritchard and J. Skala, UBC. For information call 875-2117. Auditorium, G.F. Strong. 9 a.m.

#### **Pediatric Grand Rounds**

Cerebral Edema in Diabetic Ketoacidosis. Dr. J. Van der Muelen, Clinical Scholar, McMaster University. For information call 875-2117. Auditorium, G.F. Strong. 1

### Health and Safety Awareness Seminar

Recognizing Mental Illiness. Mary McIlroy, Canadian Mental Health, B.C. Division. For information call Dr. Robert Morrison at 875-2354. SUB Auditorium. Noon-

#### Famous D.J. Night

50s Music theme. Mary McAlister. Free. For information call 228-3203. Fireside Lounge, Graduate Student Centre. 7:30-Midnight.

#### **Dentistry Seminar**

Oral Human Papilloma Viral Infections. Dr. John Greenspan, Director of Oral Aids, Centre at UCSF and MRC Visiting Professor, School of Dentistry, U. of C., San Francisco. For information call 228-3001. Lecture Theatre B, Anatomy (Friedman) Bldg. 10:30 a.m.

#### Medical Genetics Seminar

Maternal and Gestational Factors and the Risk of Undescended Testes in B.C. Dr. Mary McBride, UBC. For information call 228-5311. Room D308, University Hospital, Shaughnessy Site. 1 p.m.

#### MONDAY, FEB. 20

#### Theology Lecture

Natural Law: Where is Catholic Moral Theology Today? Ron Fabbro, CSB, Ph.D., Guest Lecturer (St. Joseph's College, U. of Alberta). For information call 224-3311. Lower Level Lecture Hall, St. Mark's College. 4:30 p.m.

#### **Biochemistry Seminar**

Cloning and Expression of Ion Channels. T. Snutch, UBC. For information call Dr. C. Astell at 228-2142. Lecture Hall #4, IRC Bldg. 3:45 p.m.

#### **School of Music**

In the Spotlight. Student Series. Admission Free. For ation call 228-3113. Recital Hall, Music Bldg. 8

#### Financial Planning Seminar

Retirement Planning - The UBC Pension Plan.Maureen Simons & Marcelle Sprecher, UBC Personnel Services. Open to Faculty Association Members and Spouses. Free. For information call 222-5270. Room 104, Henry Angus Bldg. 12:30-1:20 p.m.

#### Mechanical Engineering Seminar

Analysis of Feed Drive for Cutting Process Monitoring.
Jie Peng, Graduate Student. Also Stephen Ribarits,
Graduate Student, title to be announced. For information
call 228-4350. Room 1215, CEME Bldg. 3:30 p.m.

Dark Matter: Where Will You Find It? Dr. George Lake,

U. of Washington. Refreshments served. For information

#### call 228-4134. Room 260, Geophysics & Astronomy

**Astronomy Seminar** 

**History Public Lecture** Canadian Science in World War II: The Tizard Mission. Assistant Prof. of History, U. of Vic. For information call 228-5166. Room A104, Buchanan Bldg. 12:30 p.m.

#### Social Work Evening Course

Special Issues in Alcohol Treatment -Impact on the Workplace. Arlene Keis, M.A., E.A.P. Coordinator, Canadian Airlines. Fee \$10, preregistration necessary.
For information call 228-2576. Alumni Lounge, School of

#### TUESDAY, FEB. 21

#### Pharmaceutical Sciences Special Seminar

Perspectives in Peptide Delivery. Dr. Douglas Mendenhall, Visiting PMA Scientist, Director of Product Research and Development, Abbott Laboratories, North Chicago, III. For information call 228-4887. #3, IRC Bldg. 12:30 p.m.

#### Information Displays

Safety Days - displays by RCMP, Fire Department, ICBC, B.C. Safety Council, Red Cross, etc. For information call 228-7011. SUB Main Concourse. 11:15-2 p.m.

#### Forestry Awareness Series

Why I Left the Forest Service After 20 Years. Mark Wareing, Western Canada Wilderness Committee. For information call 228-6021 or 228-4488. Room 166, MacMillan Bldg. 12:30-1:30 p.m.

#### Can Numerical Modelling Benefit Fisheries? Dr. W.W. Hsieh, UBC. For information call 228-5210. Room 1465, Biological Sciences Bldg. 3:30 p.m.

Oceanography Seminar

**Botany Seminar** Community Dynamics in a Texan Grassland. Dr. Norma Fowler, Botany Dept., U. of Texas. For information call 228-2133. Room 2000, Biological Sciences Bldg. 12:30

#### **Modern Chemistry Lecture**

Thermochemistry. Prof. David Griller, National Research Council, Ottawa. Refreshments served. For information call 228-3266. Room 250, Chemistry Bldg. 1 p.m.

#### **WEDNESDAY, FEB. 22**

#### Applied Mathematics Seminar

Stability of Stratified Shear Flows. Dr. Gregory A. Lawrence, UBC. For information call 228-4584. Room 229, Mathematics Bldg. 3:45 p.m. Ecology/Resource Ecology Seminar Population Interactions in a Texas Grassland. Norma

Fowler, U. of Texas. For information call 228-4329.

### Room 2449, Biosciences Bldg. 4:30 p.m.

4:30-6 p.m.

Geriatric Seminar Blood Pressure Change with Aging, The Search for Normalcy. Dr. Alvar Svanborg, Prof. of Medicine Section of Geriatric Medicine, and Clinical Director of Research in Gerontology, U. of Illinois, sponsored by Floyal College of Physicians and Surgeons of Canada. For information call 875-2185. Room D203, Shaughnessy Hospital.

Continued on Page 3