UBC Archives Serial

Drug firm studies UBC site

By GREG DICKSON

One of the world's largest drug companies is considering UBC as the site for a \$35-million toxicology research facility.

However, university officials are worried that the firm will go elsewhere unless Victoria develops a strategy to attract multinational drug companies.

Health Sciences Coordinator Dr. Mort Low said the multinationals plan to spend billions of dollars in Canada in the next ten years. But without a coordinated provincial effort the investment will end up in central Canada, he predicted.

"We have the opportunity to attract European and Japanese drug companies to establish major components of their operations in B. C.," said Low.

"And from all our discussions with senior officials of the drug companies, it's very attractive to them to build next to the university."

Low said the toxicology research facility would have an annual payroll of more than \$7-million. The same company is looking for a Canadian site to build a biotechnology plant of about the same size.

Drug companies are spending the money as part of a promise to increase research and development in Canada in exchange for patent drug protection. Spending nation-wide in the next ten years will be more than \$3-billion.

Low is urging the provincial government to form a task force to develop the strategy for attracting the companies to B.C.

"It will require government encouragement and probably initiatives like tax incentives," he said.

Low said pharmaceutical companies tend to be good corporate citizens and could provide B.C. with an environmentally clean industry.





Back pain project set for space shuttle

By GREG DICKSON

A UBC research project examining the causes of astronauts' back pain will be included in the space shuttle mission set for February, 1991.

"Close to 70 per cent of all astronauts experience back pain," said UBC investigator Lark Susak. "It's the second most common problem in space after motion sickness."

Astronauts increase in height 4 1/2 to 6 1/2 centimetres while in space. Susak said the UBC project will try to determine why that happens and what the relationship is between the height increase and back pain.

"There is still a lot we don't know about spinal cord function," said Susak. "We're hoping by looking at it under different circumstances in space we may get a better idea of how it works."

Astronauts on the shuttle will be monitored in two ways.

Their backs will be photographed from two angles simultaneously to record changes in height and curving.

They will also be asked to fill out

diagrams called pain drawings to describe how they feel, where the pain is centred, and what conditions make it worse or better.

Susak believes the experiments could also help to explain more about back pain on Earth. Eighty per cent of the population experiences back pain at some time in their lives.

The project is funded by the Medical Research Council of Canada. Plans are under way to follow up the 1991 experiments with more research on subsequent space shuttle missions.

<u>Finance a problem</u>

Refugees confused, study shows

By PAULA MARTIN

Refugees settling in Canada should be offered consumer education programs to help them adapt to our complicated financial practices, says a UBC family resource management professor.

The tangle of savings accounts, credit cards, RSPs, GICs, CSBs, loans, and stocks and bonds -- offered by banks, credit unions, finance companies and government agencies – can be overwhelming.

"Designing consumer education programs to increase the awareness of benefits of these practices may be specially important for the less educated, female consumers, and those who had their initial orientation from government agencies," said Phyllis Johnson.

The way refugees handle their finances can be a measure of their adaptation to life here, said Johnson, who has been studying their financial practices for several years.

"I'm interested in how they behave as

beginning of their exposure to North American life.

She recently completed a project studying the changes in their financial practices during a two-year period. The research is part of a larger study of employment, consumer, health and social aspects of refugee settlement.

For refugees from Vietnam and Laos, borrowing, saving and investing money, using chequing accounts and buying life and property insurance were new practices, Johnson said.

She found at the beginning of her study that the Canadian financial practice the refugees most frequently adopted was saving money.

"It fits in with the pattern we see with

immigrants and refugees who have had to do without," Johnson said. "Maybe it's a realization of the importance of having a reserve fund."

The least frequently adopted practices were buying property insurance and using credit cards.

Johnson's research found that during the study period, the most notable changes were increases in obtaining credit cards and borrowing money. There was a slight decrease in saving money.

Although some privately sponsored refugees are taught about banking and more complex financial arrangements, government-sponsored refugees -- because of their large numbers -- often aren't, Johnson said.

Community Relations wins two more awards

Students demonstrated outside the Students' Union Building last week in protest against the university's plans to raise tuition fees by 10 per cent. UBC's Alma Mater Society is planning a formal presentation at today's Board of Governor's meeting. consumers -- why they make the decisions they do. How one gets and spends money in this society are critical aspects of survival."

Refugees often come from cultures where they have little or no exposure to North American methods of saving and investing.

Some refugees' financial habits -- such as keeping large amounts of cash at home -- are not practical, Johnson noted. "However, if you don't know about the banking system here, then it may be more difficult to see the advantages of using it."

Johnson has focused on the Vietnamese boat people, many of whom arrived in Canada in 1979. They provided an opportunity to study one group from the The Community Relations Office has won two more awards from the Council for Advancement and Support of Education for its work promoting the university. Judges awarded the prizes from among 435 entries in various categories from member institutions in CASE District

member institutions in CASE District VIII, which includes Western Canada, the Pacific Northwest and Alaska.

Toward the Pacific Century: The President's Report, published last year, won a silver award in the category of Individual Special Progam Publications.

The report was designed by Ullrich Schade and Associates, edited by Jerri Lee and produced by Jerri Lee and Arlene Chan.

The sixth edition of the weekly radio series UBC Perspectives, produced by information officers Lorie Chortyk and Jo Moss and written and edited by freelancer Sylvia Dayton, picked up a bronze award in the radio programming category. It marks the third consecutive year CASE has given an award to the series.

Perspectives, hosted by David Suzuki, featured interviews with UBC faculty members discussing topics such as robotics, daycare, pesticides and stress. The series was distributed by satellite to 256 radio stations across Canada by Broadcast News of Toronto.

The awards will be presented at the CASE district conference, Feb. 5-8 in Portland, Ore.

CASE, a Washington, D.C.-based organzation, represents more than 2,800 colleges, universities and independent schools throughout North America.

UBC REPORTS Jan. 26, 1989

Enrolment jumps 19 per cent in Continuing Education

By GREG DICKSON

Enrolment at UBC's Centre for Continuing Education jumped almost 19 per cent in 1988, producing a budget surplus after two money-losing years.

The improved financial performance will make it easier to meet a requirement to become fully self-sustaining by 1991.

Acting Director Anne Ironside credits a general economic upturn in the province for the centre's boost in enrolment.

"People do have discretionary income again and are investing it in education,"

she said. "Part of it is because there has been an improvement in the economy, but I think people are also taking life-long learning more seriously."

The largest increase in enrolment -30.5 per cent- came in the area of professional and technical education. General education program enrolments were up more than 11 per cent.

Ironside said the good news is tempered by some reasons for concern. National statistics show that a small percentage of the public accounts for most of the courses taken. "If you look nationally, 20 per cent of adults in a given year take a course," she said. "One in five Canadians is committed to life-long learning. Eighty per cent aren't."

Ironside believes that if the trend continues, education will lose its role as an equalizer and the gap between the educated and uneducated will continue to widen.

The statistics also show that women are far more likely to take continuing education courses than men. Men make up less than 30 per cent of total enrolment.

Strangway to chair task force on environment and economy

By PAULA MARTIN

UBC President David Strangway has accepted an invitation to chair a provincial task force on the environment and the economy.

The task force will make recommendations to the provincial government on:

Establishing a permanent forum of public and private-sector decision makers to advise on ways to integrate environmental management and economic development;

Developing a provincial conservation strategy to ensure long-term environmental protection and effective resource use;

Promoting understanding of the links

between the environment and the economy through environmental education.

"We, in this province, can show the world that environment and economy must go hand in hand," Strangway said. "I believe that this is one of those issues which has to be dealt with collectively, rather than confrontationally."

Members of the task force will be drawn from business, labor, government, native and environmental groups.

The provincial government said the appointment of the task force reflects its commitment to implement the recommendations of the Brundtland World Commission on the Environment and

Development.

The Norwegian-led Brundtland Commission investigated global environmental problems over a period of three years.

The commission's report concluded that decisions about the environment and the economy cannot be separated.

"We need a strategy for managing our resources and our environment for the long term, an approach in which environmental and economic concerns go hand in hand," said Environment Minister Bruce Strachan.

The task force has been asked to report by May 30, 1989.

Fisheries oceanography chair urged

By GAVIN WILSON

Funds lacking

The mysteries of fish migrations and population swings could be explained much more quickly if oceanographers and fisheries scientists worked together, according to UBC oceanographer Tim Parsons.

Parsons said fisheries management has been driven by economic considerations that largely ignore the environment that produces the fish. He would like to see a chair in fisheries oceanography established at UBC, but funds are lacking.

"We've spent millions of dollars building hatcheries but not nearly enough for studies on what happens to these fish when they try to survive in the marine environment," he said. "Almost all the mortality of juvenile fish occurs in the first 80 days at sea."

The fresh water life of fish is well understood, but the puzzle begins when young fish swim out to sea to mature. The ocean's effect on fish survival is so enigmatic that fisheries scientists liken it to a "big black box."

When bonanzas are expected for fishermen, returns can be disastrously low, but fish runs of little promise sometimes swarm back in the millions.

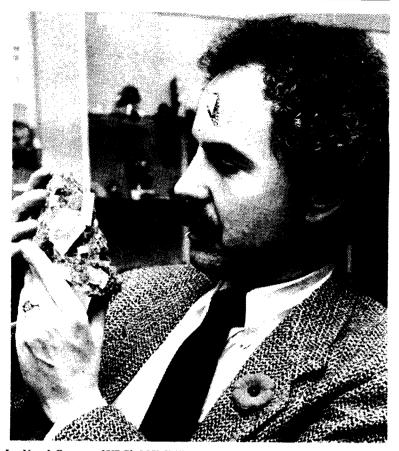
Until recently, fisheries scientists and oceanographers have gone their separate ways, with neither side believing the other's research has much bearing on their work. But this is changing, said Parsons, a longtime advocate of closer relations between the two groups. Parsons said fisheries management could benefit from new technologies in oceanography. Today, changes in the oceanographic climate can be detected from space using remote sensing satellites.

For example, infrared satellite photos show upwellings at sea, in which cool, nutrient-rich water spirals upward from great depths to the surface.

"An upwelling is like an oasis," he said. "This is where you will catch fish because this is where all the food is."

Another mystery of the sea explained by oceanography is the pink and sockeye salmon migration of the Skeena River in northern B.C. In some years returning salmon travel down the coast of Alaska, where they are available to U.S. fishermen, but in other years the fish swim directly to the river, avoiding American nets.

Oceanographers found that in some years there is a strong eddy off the Alaskan coast which deflects the fish to the south, away from U.S. waters.



Joe Nagel, Curator of UBC's M.Y. Williams Geology Museum, holds a crystal from the Rock Candy Mine.

Geology museum set to make film about crystals

By JO MOSS

UBC's geological museum is going into the movie business.

Joe Nagel, museum curator, has received \$24,653 from the museums assistance programs of the federal Department of Communications to make an unusual film--about crystals.

The 25-minute movie, which is aimed at encouraging people to take up crystal collecting, will tell the story of the mineral business--how mineral specimens are formed underground and how they can be collected and prepared for display.

It will be the first movie of its kind in North America.

Until now, it has been difficult to document the techniques of crystal collecting because deposits of good mineral specimens are rare and usually inaccessible. But UBC recently aquired the rights to access a mine near Grand Forks, which will provide the ideal site for filming.

Computer helps diagnose sleep breathing problem

"It offers a unique opportunity to document the process of specimen collection at a significant locality, in a way that has not been possible elsewhere," Nagel said.

According to Nagel, the Rock Candy Mine is one of the most important sources of crystals in Canada producing worldclass examples of fluorite and barite. It's one of the few places that produces not only top-quality specimens, worth thousands of dollars, but lots of them.

Although the mine is owned by a professional mineral collector, UBC has full rights to access the site and to a share of the best specimens produced. Some samples are already on display in UBC's M.Y. Williams Geology Museum, which houses the only significant mineral collection in B.C.

Nagel said the film would be available to other museums in North America with large mineral collections for public information programs, and to mineral trade fairs.

access library catalogue

Home computers can

By GAVIN WILSON

Undergraduate students with access to computers can now scan the library's collections catalogue without leaving home.

Remote access to the online catalogue, already available to faculty and graduate students, was extended this month to all library card holders, including undergrads and staff. The service is free and available 24 hours a day.

"There are no closed doors now as far as our own people are concerned," said assistant university librarian Bob MacDonald. "If you are a library card holder and have access to a computer attached by a modem to a phone, you have access to the catalogue system."

Access is also available through any UBCNET terminal or any one of eight public terminals located in the following campus libraries: the Main Library, Sedgewick, MacMillan, Law, and the Curriculum Laboratory. Two are being installed in the Woodward Biomedical library.

"The first purpose of computerizing was to improve the library's operations internally," said MacDonald. "Now we can put emphasis on passing along the benefits to the users."

Forty per cent of the library's collection is now listed on the online catalogue, added assistant university librarian William Watson.



Editor:

Every baby picture you have printed shows the male in the dominant position with the female as nurturer. Is that fair? Is it called getting the ear of the dean?

A. Jean Elder

By GREG DICKSON

A computer program developed by the Faculty of Dentistry at UBC is providing a more accurate diagnosis of a potentially fatal breathing problem..

"Obstructive sleep apnea affects five" per cent of all males over the age of 50 and it's life threatening," said Dr. Alan Lowe of the Department of Clinical Dental Sciences.

"UBC is currently the only place in the world with the unique software required to pinpoint where the breathing is obstructed."

Sleep apnea can be caused by too small a breathing passage, too large a tongue, or problems in muscle tone. Sufferers repeatedly stop breathing for short periods of time during sleep. As a result, they are chronically tired during waking hours. In severe cases, sleep apnea can cause cardiac arrest.

With CAT scan images, the UBC system shows airways, bones and muscles from many different angles in three dimensions to assist in the identification of the obstruction.

In the past, surgery was often performed on the soft palate to open breathing passages. But the success rate was limited because conventional two dimensional x-rays often failed to identify the real cause of the breathing obstruction.

Once the difficulty has been identified, it is often possible to prescribe the use of a dental appliance instead of surgery.

People

Award named after Copp

The German Osteology Society has named a new award after UBC scientist Dr. Harold Copp.

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The Copp Prize will be awarded bi-annually to honor and promote excellence in the area of osteological research, the study of the structure and function of bones.

Dr. Copp is internationally known for his discov-

ery of the hormone calcitonin. Calcitonin was originally thought to be worthless but is now used in treatment of bone diseases.

The 1988 UBC Pharmaceutical Sciences graduating class has finished first in national Pharmacy Examining Board qualifying exams.

UBC's graduating class had the highest average in the country and a student from the faculty had the highest mark.

Teresa Jones, 23, of Powell River received the George A. Burbidge Award for topping the standings.



Margaret Friesen, head of UBC's Interlibrary Loan Division, has been appointed to the Advisory Committee of the provincial government's Interlibrary Loan Network Study. The study will identify the best option for establishing a province-wide network for loans between public libraries. The final report is expected by the end of April.

Friesen Friesen is also Manage-

ment Coordinator of the B.C. Post Secondary Interlibrary Loan Network and coordinates resource sharing with libraries in the Greater Vancouver Library Federation.

Two UBC field hockey players and the co-director of UBC's Alan McGavin Sports Medicine Clinic have been nominated for Sports B.C. athletic awards.

Thunderbird field hockey player Penny Cooper was nominated for the Harry Jerome/Comeback Award which recognizes an athlete who has overcome a serious injury. Teammate Melanie Slade was nominated in the university athlete category.

Sports clinic co-director Dr. Doug Clement, who coached middle-distance runners on Canada's track team at the Seoul Olympics, was nominated for a coaching award.

The 23rd annual Sports B.C. awards recognize coaches and amateur athletes in 10 categories. A B.C. athlete of the year is also selected.

Candidates are judged by a panel of media representatives after nomination by sports governing bodies, universities and high schools. Winners will be announced at a Jan. 28 ceremony.

Veterans of Canada's junior national field hockey team, Slade and Cooper were selected for Canada's Olympic team last year. Slade was UBC's 1988 Athlete of the Year and last fall was top scorer in Canada West intercollegiate competition. She was named to the first All-Canadian team the last two seasons and was a CIAU and Canada West All-Star in 1987 and 1988.

Cooper made a remarkable recovery from a dis-

abling ligament injury in 1986 which threatened to shut her out of the sport. In 1987, her first year at UBC. she was named a Canada West All-Star and was selected for the second All-Canadian team. She will play for the All-Canadians again this year.



The Faculty of Medicine has honored three of its professors with Teaching Excellence Awards.

The winners for 1988 are Dr. Ross MacGillivray, biochemistry; Dr. David Godin, pharmacology; and Dr. Paul Steinbok, neurosurgery.

The award recognizes and encourages the pursuit of excellence in teaching in the undergraduate medical curriculum.

Social Work Colloquia

on Roles in Child Sexual Abuse - Prosecutor's Role. Wendy Harvey, Designated Prosecutor, Ministry of Attorney General, B.C. Free. For further information call 228-2576. Lecture Hall A, School of Social Work. 12-

Geophysics and Geology Seminar

Kinematics and Mechanics of Tectonic Block Rotations. Dr. Amos Nur, Chairman, Dept. of Geophysics, Stanford U. (Amoco Canada Visiting Scientist). Refreshments served. For information call 228-5406. Room 260, Geophysics & Astronomy Bldg. 4 p.m.

Creative Writing Lecture

Maclean Hunter Chair, Lecture Series on Non-Fiction and Literary Biography. Elspeth Cameron. For information on this and future lectures by Peter C. Newma an Crean or Pierre Berton call 228-2712. Angus 104. 12:30 p.m.

Comparative Literature Colloquium

La Bouche Due Pendu: Narrative Structures in Hubert Aquin and Phillipe Sollers. Robert Richard, UBC. For information call 228-5157 Penthouse, Buchanan Bidg 12:30 p.m

THURSDAY, FEB. 9

Music at the Museum

UBC Asian Music Ensemble. Alan Thrasher, director Admission: Free with Museum admission. For information call 228-3113. Museum of Anthropology. 3 p.m.

Faculty Recital

Michael Strutt, guitar. Admission Free. For information call 228-3113. Recital Hall, Music Bidg. 8 p.m.

Asian Studies Lecture

Christianity & Chinese Religions: A Question of Com-patibility. Dr. Julia Ching, Prof. of Religious Studies and East Asian Studies, U. of T. Prof. Ching has just completed a book on this topic with the Swiss theologian Hans Kung. For information call 228-5728. Room 604, Asian Centre. 4:30 p.m.

Physics Colioquium

Policy Seminar

Policy Research from a Historical & an Educational Administration Perspective. Dr. J.D. Wilson, SEDS & Dr. J. Hills, Head, AAHE, UBC. For information call 228-2593. Room 123, Ponderosa Annex H. 12:30-2 p.m.

Geophysics Seminar

Time-Dependent Hydraulics of the Earth's Crust. Dr. Amos Nur, Chairman, Dept. of Geophysics, Stanford U. (Amoco Canada Visiting Scientist). Refreshments served. For information call 228-5406. Room 260, Geophysics & Astronomy Bldg. 4 p.m.

Policy Seminar

Policy Research from a Historical and An Educational Administration Perspective. Dr. J.D. Wilson, SEDS & Dr. J. Hills, Head AAHE, UBC. For information call 228-2593. Room 123, Ponderosa Annex H. 12:30 - 2 p.m.

English Colloquium

Adam Smith at Oxford. Ian Ross, UBC. For information call 228-5122. Penthouse, Buchanan Bldg. 3:30 p.m.



UBC Contemporary Players

Stephen Chatman, Geoffrey Michaels, directors. Free. For information call 228-3113. Recital Hall, Music Bldg. 12:30 p.m.

Pharmaceutical Sciences Seminar

Modulation of Cyclic AMP Production by Activation of Protein Kinase C in a Primary Culture of Rat Aortic Myocytes. Dr. Sylvain Phaneuf, UBC. For information call 228-2270. IRC #3, Woodward IRC Bidg. 12:30 p.m.

Religious Studies Lecture

The Religious Prophet: Four Types of Expectation. Dr Willard Oxtoby, Prof. of Religious Studies, Trinity College, U. of T. A comparative analysis of the concept of "prophet" in the Hebrew, Islamic, Christian and Zoroas-trian traditions. For information call 228-2515. Room A205, Buchanan Bidg. 12:30 p.m.

Fisheries and Aquatic Science Seminar

Cannibalism As A Population Control Mechanism in Pelagic Ecosystems. Dr. Paul Smith, National Marine ries Service, La Jolla. For information call 228-Room 2361, Biosciences Bldg. 3:30 p.m

THE VANCOUVER INSTITUTE



New Parts For Old: An Odys-sey_in Medicine. Dr. Paul Keown, Dept. of Medicine, UBC and Director, B.C. Transplant Society.

Saturday, Feb. 4 An Evening with Murray Schafer. Mr. Murray Schafer, Composer, Music Educator and Author, Toronto, Ont.

Saturday, Feb. 11

Does Canada Have a Future?. The Vancouver Sun Annual Lecture, Mr. Peter C. Newman, O.C., Author and Editor British Columbia

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

NOTICES

Reading, Writing & Study Skills

Improve your reading speed and comprehension, com-position, 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 corre-spondence courses. For registration information phone 222-5245.

Women Students Workshop

Three Session Workshop. Tuesdays, Feb. 7, 14, 21 Basic Social Assertiveness. This workshops provide an introduction to basic communication skills. Participants will be given the opportunity to learn more effective methods of expressing themselves and their needs in a wide range of social settings - from classrooms to rela-tionships. Free to UBC students. For information call 228-2415. Room 106A Brock. 12:30-2:20 p.m.

Women Students Workshop

Three Session Workshop. Wednesdays, Feb. 1, 8, 15.

Vasanto Crawford, Registered Dietician and Nutritiona 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

Cooper

Play

Feb. 7 - 11 8 p.m. (Feb. 11, matinee 2 p.m.) Zastrozzi by George F. Walker. Tickets \$6. For information and reservations call 228-2678. Frederic Wood Theatre.

Paintings Exhibition

To Jan. 31. Mon-Fri 10 - 4:30 p.m. Sat/Sun. 12 - 5 p.m. Exhibition of Paintings by SHAO Fei. SHAO Fei (born 1954, Beijing) is one of many artists from the People's Republic of China whose works and artistic concerns are creating new directions in modern Chinese painting. For tion call 228-2746. Auditorium, Asian Centre

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 Tues-day nights, Thursday afternoons and Saturday morn-ings. French conversation classes at the intermediate and advanced levels will continue on Thursday eve-

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 Immersion Program in Cuernavaca, Mexico, February 27-March 16. 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 pro-nunciation, advanced. \$175 per course. For information call 222-5285. Room 109, 2062 West Mall Hut M-18.

Fine Arts Gallery

Until Feb. 4. L'Ecole des Beaux-Arts de Paris: 49 Student Drawings. Basement Main Library. Tues.-Fri. 10 a.m. - 5 p.m.; Saturday, Noon - 5 p.m.

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

Caribbean

project on changes in memory across the adult life span. For information call Jo Ann Miller at 228-4772.

Special Issue on Africa and the French

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

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 I

Participation will take about one hour. Evening appointments can be arranged. Interpretation of questionnaire is available on request. For further information, please contact Dr. C. 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 par-ents guide their children in the development of sharing and cooperative play skills. For further information call Georgia Tiedemann at the Sharing Project 228-6771.

Fitness Appraisal

Physical Education & Recreation, through the John M. Buchanan Fitness and Research Centre, is administer-ing a physical fitness assessment program to students, faculty, staff and the general public. Approx, 1 hour students \$25, all others \$30. For information call 228

and the Fu SFU. For information call 228-2136 or 228-3853. Room 201, Hennings Bldg. 4 p.m.

United Church Lecture

Ending Poverty. Jean Swanson, Coordinator of End Legislated Poverty. For information call 224-3722. Room 212A, SUB. 12:30 p.m.

Distinguished C.I.C.S.R. Lecture

The Next Generation of Computer Communication Systems. Dr. David Cheriton, Associate Professor of Computer Science & Electrical Engineering, Stanford U. rmation call 228-6894. Room 104, Henry Angus Bldg. 11:30 a.m.

Committee on Lectures Germanic Studies Seminar

Baroque Poetry, Presented in German. Prof. Peter Schaeffer, U. of C. For information call 228-5154. Room 219, Buchanan Tower. 3:30 p.m.

Policy Division Seminar

Forward to the Past: Reforming Telecommunications Regulation and Policy in Canada. Richard Schultz, Director of the Centre for the Study of Regulated Industries, McGill U. For information call 224-8475. Penthouse, Henry Angus Bldg. 3:30-5 p.m.

Committee on Lectures Germanic Studies Lecture

Thirty Years' War in German Literature. Prof. Peter

Schaeffer, UCLA. For information call 228-5154. Room A203, Buchanan Bldg. 12:30 p.m.

Medical Genetics Seminar

Clinical Case Presentations. Clinical Geneticists. Clinical Genetics Unit, Grace Hospital. For information call 228-5311. Room D308, University Hospital, Shaughnessy Site, 4500 Oak St. 1 p.m.

Theoretical Chemistry Seminar

Irreducible Tensors and NMR Spin Dynamics in Solids. Dr. M.S. Krishnan, UBC. For information call 228-3299. Room 225, Chemistry Bldg. 3:30 p.m.



Continuing Ed. Workshop

Cholesterol, Lipoproteins and Heart Disease: A Nutri-tional Perspective. Dianne Arbuckle, UBC. Fee \$35. For information call 222-5238. Lecture Hall #3, IRC Bldg 9:30-4 p.m

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

Women Students Workshop

Three Session Workshop. Thursdays, Feb. 2, 9, 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 nation call 228-2415. Room B212, Buchanan Bldg. 12:30-1:30 p.m.

Women Students Workshop

Four Session Workshop. Fridays, Feb. 3, 10, 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 Education Workshop

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

Continuing Education Workshop

Three Thursdays, Feb. 2-16. Eat Better-Drink Less: How to Control Alcohol Consumption Through Diet.

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 language for another. For information call Mawele Shamaila, International House at 228-5021

Language Bank Program

Free translation/interpretation services offered by Inter national students and community in general. For infor-mation call Teresa Uyeno, International House at 228-5021.

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' Student Fund.

Surplus Equipment Recycling Fa All surplus items. For information call 228-2813. Every Wednesday Noon - 3 p.m. Task Force Bidg, 2352 Health Science Mall.

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

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

Nitobe Memorial Garden

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

Botanical Gardens

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

UBC REPORTS Jan. 26, 1988

MONDAY, FEB.6

Music and Media. R. Murray Schafer, Composer. Admission Free. For information call 228-3113. Recital

Investment Planning - Goals, Strategies and Risk Fac-tors. Nancy McKinstry, Odlum Brown Ltd. Open to Faculty Association Members & Spouses. Free. For information call 228-5270. Room 104, Henry Angus

Editing of Kinetoplastid Mitochondrial mRNAs. Dr. K.

Stuart, Seattle Biomedical Research Institute, U. of Washington. For information call Dr. Caroline Astell at 228-2142. Lecture Hall #4, IRC Bidg. 3:45 p.m.

An Analysis of Wash Boarding in Wood Machining. James Zhan. 2. A Numerical Analysis of Pressure Distribution Beneath a Tourniquet. Stephen Callaghan, Graduate Student. For information call 228-4350. Room

Special Issue in Alcohol Treatment - Impact on Couples and Intimacy. Jennifer Newman, UBC. Fee \$10. Prereg-istration Necessary. For information call 228-2576. Alumni Lounge, School of Social Work. 7-10 p.m.

Mechanical Engineering Seminar

Music Lecture

Hall, Music Bldg. Noon.

Bldg. 12:30-1:20 p.m.

Biochemistry Seminar

1215 CEME Bldg. 3:30 p.m.

Social Work Seminar

Financial Planning Seminar

SUNDAY, JAN. 29

Chinese Culinary Arts Demonstration Mr. Kwok Wing Hong, a noted Chinese chef now residing in Vancouver, will demonstrate and display his talent for creating beautiful works of art from and with food. Mr. Kwok has published several books in English and Chinese explaining the art of preparing and garnishing Chinese dishes. For information call 228-2746. Auditorium, Asian Centre. 2-5 p.m.

MONDAY, JAN. 30

Committee on Lectures French Seminar

Le Processus de Canonisation Dans La Litterature Quebecoise. Dr. Patrick Imbert, Lettres Francaises, U. of Ottawa. For information call 228-4036. Room 826, Buchanan Tower. 8:30 a.m

Committee on Lectures French Seminar

Critique et Nouveaux Mondes. Dr. Patrick Imbert, Lettres Francaises, U. of Ottawa. For information call 228-4036. Penthouse, Buchanan Bldg. 12:30 p.m.

Applied Mathematics Seminar

Have the Best-Laid Plans of the 19th Century Differential Geometers Gone Astray? Dr. Peter Vassiliou. Canberra College of Advanced Education. For information call 228-4584. Room 229, Mathematics Bldg. 3:45 p.m.

Health Care & Epidemiology Seminar

What is Health Promotion? Should Hospitals Be In-volved in Health Promotion, And If So, What Are The Advantages/Disadvantages)? Jan Mitchell, Coord., Health Promotion, VGH. For information call 228-2258. Room 253, James Mather Bldg. 4-5:30 p.m.

Mechanical Engineering Seminar

Unsteady Boundary Layers on Turbornachinery Blades. Dr. Robert L. Evans, UBC. For information call 228-4350. Room 1215, CEME Bldg. 3:30 p.m.

Biomembranes Discussion Group Seminar

Singal Transduction In The Aorta: Protein Kinase C Activity and Diacylglycerol Metabolism. Dr. David Sev-erson, Dept. of Pharmacology, U. of Calgary. For information call Dr. R.W. Brownsey at 228-3810. Lecture Hall #4, IRC Bldg. 3:45 p.m

Astronomy Seminar

Submillimetre Spectrum of the Cosmic Background. Dr. Herbert Gush, UBC. Refreshments served. For infornation call 228-4134. Room 260, Geophysics & Astronomy Bldg. 4 p.m.

Cancer Seminar

Etiology of Melanoma and Benign Nevi. Mr. Richard Gallagher, BCCRC. For information call 877-6010. Lecture Theatre, B.C. Cancer Foundation, 601 W. 10th Ave. noon - 1 p.m.

Paediatrics Seminar

Applications of Advanced Statistical Methods in Pediat-ric Research. Dr. Martin Puterman, Biostatistical Con-sultant, Children's Hospital. Refreshments served. For information call 875-2492. Room D308, Shaughnessy Hospital, 4500 Oak St. Noon

TUESDAY, JAN. 31

Statistics Seminar

Posterior Probability and Conditional Confidence. Dr. Tim Schwartz, Dept. of Mathematics & Statistics, SFU. For information call 228-3319. Room 102, Ponderosa Annex C. 4 p.m.

Forestry Awareness Series

From Industrial Forester to Holistic Forester. Herb Hammond, R.P.F., Silva Ecosystems. Ltd. For informa-tion call 228-4488 or 228-6021. Room 166, MacMillan Bldg. 12:30-1:30 p.m.

Final PhD Seminar

Metoclopramide Kinetics in Sheep: Maternal-Fetal Disposition, Fetal Pharmacodynamics and Comparison between Pregnant and Nonpregnant Ewes. Wayne Riggs, Graduate Student, For information call 228-4887. IRC3, Woodward IRC Bidg. 12:30 p.m.

Christian Forum Lecture/Discussion

Private Property - Is It A Biblical Concept? John R. Sutherland, UBC and Trinity Western U. Coffee avail-able. For information call 228-3112. Penthouse, Buchanan Bido, 4:30 p.m.

Oceanography Seminar

Spatial and Temporal Patterns of Hydrothermal Venting

calendar

Jan. 29 - Feb. 11



LIGHT AT THE END OF THE TUNNEL

Despite the rain, workers are busy at the site of UBC's new daycare centre on Acadia Road. The centre is scheduled for completion by the Fall term.

CALENDAR DEADLINES

For events in the period Feb. 12 to Feb. 25, notices must be submitted on proper Calendar forms no later than 4 p.m. on Wednesday, Feb. 1 to the Community Relations Office, 6328 Memorial Rd., Room 207, Old Administration Building. For more -information call 228-3131.

Modern Chemistry Lecture

Determination of Impurities in Semiconductors by Near-Infrared Raman Spectroscopy. Dr. T.D. Harris, Analyti-cal Chemistry Section, AT&T Bell Laboratory, Murray Hill, N.J. Befreshments served. For information call 228 3266. Room 250, Chemistry Bldg. 1 p.m.

WEDNESDAY, FEB. 1

Noon-Hour Series Philip Bush, piano. Admission \$2. For information call 228-3113. Recital Hall, Music Bidg. 12:30 p.m.

Biochemical Discussion Seminar Molecular Genetics of the Homeotic Gene Proboscipe-dia in Drosophila. Dr. David Cribbs, Dept. of Biology, Indiana U. For information call Dr. 0 Lecture Hall #3, IRC Bldg. 4 p.m. mation call Dr. G. Tener at 228-2893.

Ecology-Resource Ecology Seminar Empirical Measures of Timber Production and Forest Utilization Research. William Hyde, U.S. Dept of Agriculture, Duke, U. For information call 228-4329. Room 2449, Biosciences Bldg. 4:30 p.m.

Pharmaceutical Sciences Special Seminar

Kinetics and Mechanism of Degradation of 4-Amino-2-(2-Butanon-3-yl) Oxy-5-Chloro-N-(2-(diethylamino)ethyl) Benzamide Hydrocholoride (BMY-25801-1) in Aqueous Solutions. Dr. Robert Lipper, Visiting PMAC Scientist. Director of Pharmaceutical Product Dev., Bristol-Myers. U.S.A. For information call 228-3428. IRC 3, Woodward

Physics Colloquium

Star Forming Regions at Different Stages of Evolution. Dr. W. McCutcheon, UBC. For information call 228-2136 or 228-3853. Room 201, Hennings Bldg. 4 p.m.

United Church Lecture

Sex Trade and Tourism: A Growing Industry. Linda Ervin, United Church Minister. For information call 224-3722. Room 212A, SUB. 12:30 p.m.

Pharmaceutical Sciences Special

Seminar

Regiospecific Metabolism of Steroids by Hepatic Cyto chrome P-450. Wayne Levin, MRC Special Visiting Professor, Hoffman-LaRoche, Nutley, N.J. For information call 228-4103. Room 160, Cunningham Bldg. 2:30-3:30 p.m

Pharmaceutical Sciences Fall Seminar

Regulation of Cytosolic Calcium and Contractility in Heart by Sarcoplasmic Reticulum. Dr. Evangelia Kra-nias, Department of Pharmacology and Cell Biophysics, U. of Cincinnati Medical Centre. For information call 228-2270. IRC 3, Woodward IRC Bldg. 12:30 p.m.

Forestry Seminar

Special 2-hour Presentation on the Carmanah Manage ment Plan. Mr. Stan Coleman, R.P.F., MacMillan B del Ltd. For information call 228-4166 or 228-2507. Room 166, MacMillan Bldg. 12:30-2:30 p.m.

FRIDAY, FEB.3

Graduate Student Colloquium

Medical Theories and Methods in Twelfth Century Reli-gious Taoism. Stephen Eskildsen, M.A. Candidate. All are welcome. For information call 228-3881. Room 604, Asian Centre, 12:30 p.m.

Pharmaceutical Sciences Seminar Multiplicity and Functional Diversity of Hepatic Cyto chromes P-450. Wayne Levin, MRC Special Visiting Professor, Hoffmann La Roche Inc., Nutley, N.J. For information call 228-2270. IRC 3, Woodward IRC Bldg. 12:30 p.m.

Law Students' Conference

Law and Contemporary Social Issues. Litigation in Transition: Moving toward Alternate Dispute Resolution Panel discussion of alternate dispute resolution. Panel-ists include the Chief Justices of B.C. and the Supreme Court. No-host reception to follow. Rooms 101, 102, & 201, Curtis Bidg. 1:30-4:30 p.m.

Medical Genetic Seminar

The Legal Status of the Fetus - The Current Canadian Scene. Janice Dillon, UBC. For information call 228-5311. Room D308, University Hospital, Shaughnessy Site, 4500 Oak St. 1 p.m.

Theoretical Chemistry Seminar

Phase Transitions in Sub-Atomic Systems. D. Boal, Physics Dept., SFU. For information call 228-3266. Room 225, Chemistry Bldg. 3:30 p.m.



Geophysics and Geology Seminar

The Petrophysical Basis for Seismic Reservoir Descrip-tion and Monitoring. Dr. Amos Nur, Chairman, Dept. of Geophysics, Stanford U. (Amoco Canada Visiting Sci-entist). Refreshments served. For information call 228-5406. Room 260, Geophysics & Astronomy Bldg. 2 p.m.

Paediatrics Seminar

Eczema, Passive Smoking and Asthma. Dr. Andrew B. Murray, UBC, Refreshments served, For information call 875-2492. Room D308, University Hospital, Shaughnessy Site. Noon

TUESDAY, FEB.7

Forestry Awareness Series

Environmentalists Want Forestry Too, But Are Current Practices Sustainable. Vicky Husband, Director, Sierra Club. For information call 228-6021 or 228-4488, Room 166, MacMillan Bldg. 12:30-1:30 p.m.

Graduate Student Seminar

Valproic Acid-Carbamazepine Interactions. Ms. Sue Panesar, Graduate Student. For information call 228-4887. Lecture Theatre #3, Woodward IRC Bidg. 12:30 p.m.

Oceanography Seminar

Chemical Induction of Larval Settlement of Marine Reef-Building Worms. Dr. J. Pawilik, Friday Harbor Marine Laboratory. For information call 228-5210. Room 1465, Biological Sciences Bldg. 3:30 p.m.

Botany Seminar

Floristics and Biogeography of Coastal Peru and Chile, or Life in the Fog. Dr. Michael Dillon, Field Museum of Natural History, Chicago. For information call 228-2133. Room 2000, Biological Sciences Bldg. 12:30 p.m.

Geophysics Seminar

Earthquakes in the Holyland: Archaeological, Historical and Biblical Evidence. Dr. Amos Nur, Chairman, Dept. of Geophysics, Stanford U. (Amoco Canada Visiting Scientist). Refreshments served. For information call 228-5406. Room 260, Geophysics & Astronomy Bldg 12:30 p.m

Modern Chemistry Seminar

Extended Fine Structure Spectroscopies. Prof. Adam Hitchcock, Institute for Materials Research, McMaster U. Refreshments served. For information call 223-3266 Room 250, Chemistry Bldg. 1 p.m.

WEDNESDAY, FEB. 8

Noon-Hour Series

Simchaphonics, Klezmer music. Admission \$2. For information call 228-3113. Recital Hall, Music Bldg. 12:30 p.m.

Asian Research Seminar

Fertility Change in Indonesia 1971-1980: A Period of Transition. Dr. Philip Guest, U. of Washington. For information call 228-4686. Room 604, Asian Centre 12:30-1:30 p.m.

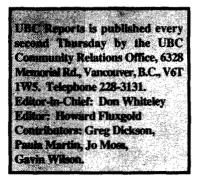
Ecology-Resource Ecology Seminar

Regulation and Adaptive Significance of Optimal Lipid Reserve in Wintering Birds. Chris Rogers, UBC. For information call 228-4329. Room 2449, Biosciences

Along the Juan de Fuca Ridge. Dr. E.T. Baker, Pacific Marine Environmental Laboratory, Seattle, Wash. For information call 228-5210. Room 1465, Biological Sciences Bidg. 3:30 p.m.

Botany Seminar

Light-Stimulated Cell Expansion is Controlled by Both Phytochrome and a Blue Light Receptor. Dr. Elizabeth Van Volkenburg, Botany Dept., U. of Washington. For information call 228-2133. Room 2000, Biological Sciences Bldg. 12:30 p.m.



Pharmacology & Therapeutics Seminar

Pharmacological Profile of Compound KC-8857. Mr. G. Beatch, UBC. For information call 228-2575. Room 317, Basic Medical Sciences Bldg. "C". Noon.

Psychiatry Academic Lecture

Alzheimer's Disease and the Psychiatrist. Dr. Annette Horton, UBC. For information call 875-2025. Room D308, Acute Care Bldg., Shaughnessy. 8:30-9:30 a.m.

Social Work Colloquium

Intervention Roles in Child Sexual Abuse - Therapists Role. Garry Grams, UBC. For further information call 228-2576. Lecture Hall A, School of Social Work. 1-2 p.m.



Music Hour

UBC Chamber Ensembles. Free. For information call 228-3113. Recital Hall, Music Bldg. 12:30 p.m.

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UBC Chamber Ensembles. Admission Free. For information call 228-3113. Recital Hall, Music Bldg. 8 p.m.

Religious Studies

Symposium - Religion & Television in the Eighties. Lecture #1. Fundamentalism Without God: Television in the Eighties. Dr. Ella Taylor, School of Communications. U. of Washington. For information call 228-2515. Room A104, Buchanan Bldg. 11:30 a.m.

Religious Studies

Symposium - Religion & Television in the Eighties Lecture #2. Religious Television and the Problem of Meaning. Dr. Janice Peck, School of Communications, U. of Washington. For information call 228-2515. Room A104, Buchanan Bldg. 12:30 p.m.

Soil Science Seminar

Cyprus - It's People, Lands and Forests. Dr. Jack Thirgood, UBC. For information call 228-3716. Room 154, MacMillan Bldg. 3:30 p.m.

Fisheries & Aquatic Science Seminar

Oceanography and the Development of Surface Fisher-ies for Tuna in the Indian Ocean. Dr. John Sibert, Errington, B.C. For information call 228-4329. Room 2361, Biosciences Bldg. 3:30 p.m.

Essay Competition

William G. Black Memorial Prize - a prize in the amount of approximately \$1,600 has been made available by the late Dr. William G. Black. The topic for the essay will be designed to attract students from all disciplines. The competition is open to students who are enrolled in undergraduate programs and who do not already pos-sess a graduate degree. A single topic of general nature related to Canadian citizenship will be presented to students at the time of the competition. Duration of the competition will be two hours. Candidates should bring their student card for identification. For information call 228-5111. Room A106, Buchanan Bldg. 10 a.m.-Noon.

Continuing Education Workshop

Loving Ourselves: A Gift to Our Children - A Workshop for Parents. Jennifer Shifrin, trained in communication disorders and family counselling. A workshop to examine the beliefs and attitudes that keep parents from nurturing themselves and practical steps that can be taken towards creating positive, life-enhancing patterns Fee: \$42. For information call 222-5238. Conference Room, Carr Hall. 9-5 p.m.

Continuing Education Workshop

An Introduction to Morita Therapy. Dr. Ishu Ishiyama, UBC. Fee \$58. For information call 222-5238. Room 604, Asian Centre. 9:30-5:30 p.m.

Bldg. 4:30 p.m

Applied Mathematics Seminar

Symmetry-Based Algorithms to Linearize Partial Differential Equations. Dr. George Bluman, UBC. For information call 228-4584. Room 229, Mathematics Bldg 3:45 p.m

Pharmacology & Therapeutics Seminar

Making Moves: T.B.P.T.N. Dr. J. Steeves, UBC. For information call 228-2575. Room 317, Basic Medical Sciences Bldg. "C". Noon

Financial Planning Seminar

Investment Planning - Goals, Strategies & Risk Factors. Alix Granger, Pemberton Securities Inc. Open to Faculty Association Members & Spouses. Free. Repeat of Feb. 6 session. For information call 228-5270. Lecture Hall #5, Wood IRC Bldg. 12:30-1:20 p.m

Geography Colloquium

Spirits and Machines in the Mountains: On Thinking Geographically About Early British Columbia. R. Cole Harris, UBC. For information call 228-2663. Room 201, Geography Bldg. 3:30 p.m.

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