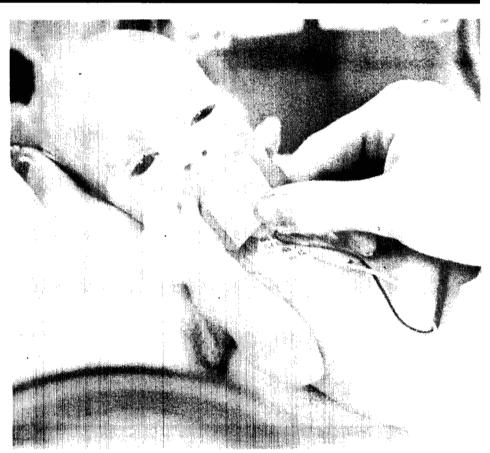


Volume 30, Number 4

February 15, 1984





A FIRST FOR CANADA

Reluctant celebrity Margaret Reid amuses her unique baby boy Robbie at Vancouver's Children's Hospital. Robbie, the first child in Canada conceived through in vitro fertilization outside of his mother's body, weighed two pounds two ounces when he was born two months premature on Christmas Day. News of the birth remained a secret at the request of the parents until word leaked out of Vernon, the couple's home town. The UBC in vitro fertilization and embryo transfer team is led by Dr. Victor Gomel, head of the obstetrics and gynecology department. (CP photos)

Chancellor Clyne, 6 others to get honorary degrees

John Valentine Clyne, now completing his second three-year term as Chancellor of the University of British Columbia, will receive an honorary degree from UBC during this year's graduation ceremonies.

Also receiving honorary degrees from UBC will be Henry P. (Budge) Bell-Irving, Leopold L.G. (Poldi) Bentley, Prof. Charles A. McDowell, Saburo Okita, Mstislav Rostropovich and Prof. Thomas Shoyama.

J.V. Clyne, who graduated from UBC in 1923, is a former president of MacMillan Bloedel Ltd. and a former justice of the Supreme Court of B.C. He served on the UBC Senate for nine years, to 1960, and

was elected chancellor in 1978.

H.P. Bell-Irving, former Lieutenant-Governor of B.C., was commander of the Seaforth Highlanders of Canada in Italy during the Second World War, and he represented the Allies at the liberation of Holland. He was an active realtor in

Vancouver for many years.

Leopold Bentley came to Vancouver from Austria in 1938, to escape the Nazis.

He founded Pacific Veneer and Plywood in

1939 with two associates, and the plant became the major supplier of plywood for the famous Mosquito bomber produced by Canada during the 1939-45 war. The company became Canadian Forest Products in 1947, and Mr. Bentley still serves as vice-chairman.

Dr. Charles McDowell, a chemist of

New Zealand forestry expert to give MacMillan Lecture

New Zealand's experience with Radiata pine, the California tree species that is the backbone of the country's intensively managed forest industry, is the topic of this year's MacMillan Lecture at UBC.

The lecturer is Dr. William "Wink" R.J. Sutton, former leader of the Radiata Pine Task Force in New Zealand and currently a scientist at the New Zealand Forest Research Institute and leader of its Exotic Forest Management Group.

He will speak at 12:30 p.m. on Thursday, Feb. 23, in Room 166 of the MacMillan Building.

Dr. Sutton's talk should be of interest to

Canadians, as the management of our forests becomes more intensive.

After much of New Zealand's native forests were destroyed to create farms, a Royal Commission in 1913 recommended creation of large plantations of Radiata pine, a species native to the Monterey Peninsula of California.

Five years later the country's State Forest Service was created and its first director was a former Canadian.

Radiata pine now meets most of New Zealand's demand for lumber and is a major export item. international renown, was head of the Department of Chemistry at UBC for 26 years. The University in 1981 appointed Dr. McDowell University Professor, in recognition of his distinguished contributions to the field of chemical sciences and to the University

Sciences and to the University.
Saburo Okita, president of the
International University in Tokyo, was
foreign minister of Japan in 1979-80. He is
renowned as an internationalist, economist,
scientist, diplomat and scholar.

Mstislav Rostropovich, internationallyacclaimed conductor, cellist and pianist, is music director of the National Symphony Orchestra in Washington, D.C.

Kamloops-born Thomas Shoyama, a 1938 UBC graduate, is a visiting professor this year at the University of Victoria. He was chairman of the board of Atomic Energy Canada in 1979.

Energy Canada in 1979.
Prof. McDowell will receive an honorary
Doctor of Science degree, the others Doctor
of Laws degrees.

The 1984 UBC Congregation will be held May 30, 31 and June 1.

GRANT

Faculty members wishing more information about the following research grants should consult the Department Head or Research Services. Call 228-3652 (external grants) or 228-5583 (internal grants Shirley Thompson).

The following grants may be applied for at any time (no deadline has been set by the

- Amoco Foundation Inc. (U.S.) Research
- Atlantic Salmon Federation Project Grant
- AUCC Intl. Development Office Institutional Cooperation Development
- Linkages B.C. Cancer Foundation
- Pilot Projects in Cancer Research • B.C. Health Care Research Fdn.
- Emergency Fund British Council
- Academic Links and Interchange Scheme
- Canadian Cancer Society CCS Travelling Fellowships - Blair Awards
- Canadian Certified General Accountants Research Contract
- Canadian Cystic Fibrosis Fdn.
- Visiting Scientist Award • Canadian Diabetes Assoc. (B.C.)
- B.C. Research Fund • Canadian Fedn. for the Humanities
- Aid to Scholarly Publications Programme
- Canadian Intl. Development Agency (CIDA) - Institutional Development Linkages
- Center for Field Research
- Field Research Projects • Commonwealth Foundation
- Commonwealth Foundation Lectureships Travel Grant
- Crown Forest Industries Limited Foundation Grants
- Educational Research Inst. of BC (ERIBC) ERIBC Discretionary Grant
- Fitness and Amateur Sport
- Sport Canada Grants; Res./Testing
- Health & Welfare Canada: NHRDP Projects
- NHRDP Conferences, Symposia, NHRDP Formulation of Proposals
- Health & Welfare Canada: Welfare
- National Welfare: Supplementary **Publications**
- Heritage Canada Document Centre Access to DATA files
- International Development Research Centre Cooperative Research
- International Union Against Cancer
- Research Technology Transfer Project
- March of Dimes Birth Defects Fdn. (US) - Basil O'Connor Starter Research Grants
- Matsumae International Fdn.
- Matsumae Fellowship
- MRC: Awards Program Career Investigators
- National Cancer Institute of Canada
- Sabbatical Leave Support for Scientific Meetings
- National Defence Canada
- Arctic Research Support Program
- National Geographic Society Research
- National Institute of Mental Health (U.S.)
- Small Grant Program
- National Research Council
- Contaminants and Pollutants Research
- North Atlantic Treaty Organization
- Double-jump Program
 NSERC: Fellowships Division
- Senior Industrial Fellowships
- NSERC: Individual Grants
- Collaborative Special Projects
- New Research Ideas Grant • NSERC: PRAI
- Project Research Applicable in Industry • Provincial Sec. & Govt. Services
- Lottery Fund -- Grants
- Queen's University
- Mineral Resource Policy Research
- Research Corporation (US) - Cottrell Research Grants
- Science Council of B.C.
- Industrial Postdoctoral Fellowships
- Secretary of State
- Canadian Studies Program • Secretary of State (B.C. Branch)
- Native Women's & Native Citizens Program
- Solicitor General Canada
- Research Contract
- SSHRC: Intl. Relations Division Travel Grants for International Representation

- SSHRC: Secretariat Division
- Library: Fleeting Opportunities Program
- Technicon Instruments Corp.
- United States Air Force
 - Research Grants and Contracts

The UBC Humanities and Social Sciences (HSS) Grants Committee awards grants from the UBC operating budget in the humanities, the social sciences, and the performing and creative arts. Applications from the social sciences must be in areas normally supported by SSHRC. Grants are awarded up to maximum of \$2,500. Important Note - Spring 1984: Adjudication of applications will not be carried out until the University operating budget for 1984/85 is finalized. Results are not expected to be available before May, 1984.

All full-time, permanent faculty members of rank assistant professor or higher are eligible providing the work to be supported meets the above criteria. (Visiting faculty and faculty appointed "without review" are not eligible).

Application forms, guidelines and further information may be obtained from the Research Services Internal Grants Office, 228-5583.

Physical Ed offers new service

UBC's School of Physical Education and Recreation is offering a new Lifestyle Referral Service to assist in linking the public with lifestyle-related services in Greater Vancouver.

Information on various lifestyle programs and agencies was gathered by students and is made available through a computer program. The data base of more than 400 agencies and programs includes services for weight control, nutrition counselling, smoking cessation, stress management, alcohol control, accident prevention and fitness and exercise.

The computer program searches these programs for specifics such as location, facilities, cost, population served and staff qualifications. An individual wishing to use the Lifestyle Referral Services can either complete a user form and mail it to the referral office or telephone the office.

When the specific needs or requests of an individual are identified, the data base is searched and information on appropriate programs is made available either by mail or telephone.

If you'd like more information about the Lifestyle Referral Service, call 228-3902 or write Lifestyle Referral Service, UBC School of Physical Education and Recreation, 2011 West Mall, Vancouver, B.C., V6T 1W5.

Ecologists meet here

The annual meetings of the B.C. Ecological Reserves Committee and Advisory Board will be held on Friday, Feb. 24 in Salons B and C of the UBC Faculty Club.

The committee meeting will begin at 9:30 a.m. with a welcome by UBC President George Pedersen. It will be open to the public.

The private afternoon meeting of the advisory board, attended by Tony Brummet, B.C. Minister of Lands, Parks and Housing and Minister of the Environment, will be held in the

The Ecological Reserve Act of B.C. has so far resulted in 111 ecological reserves in the province. These tracts of land serve as benchmarks preserving classical habitats from human alteration.

A movement is now under way to establish another reserve in B.C., an island in the Nimpkish River at the northern end of Vancouver Island with the tallest living trees in Canada.

The timber has been committed to harvest by Canadian Forest Products Ltd. The company is willing to help preserve the 45-acre island but wants \$1 million in

A fund-raising campaign is now under way with the endorsement of Mr. Brummet and Tom Waterland, Minister of Forests.

So far, \$7,000 has been collected on the UBC campus.

Children in hospital; parents need support

When children suffering from chronic illnesses are hospitalized for long periods of time, it is inevitable that the situation will be stressful for their parents.

But Janet Knox and Jinny Hayes, assistant professors in UBC's School of Nursing, believe that much of that stress can be reduced with an increased awareness and attitude change on the part of health care professionals

They have recently completed a study of 41 parents of children suffering from cancer, cardiac problems, kidney ailments, seizures and other chronic illnesses to determine what parents found most stressful about their child's hospitalization.

"In nursing there are a lot of theories about what people think and how they react to certain situations," says Ms. Hayes "But we were interested in what the parents themselves perceived their needs to be, rather than what we perceived them to be so that we could identify the kind of support that would be most helpful for

The two researchers carried out an initial study with parents of children with several different illnesses and a second study with parents of children suffering from cancer. The studies took the form of in-depth interviews with the parents conducted over a period of time.

"The interviews were open-ended," says Ms. Knox. "Parents were encouraged to talk about anything they found stressful about their child's hospital stay. The responses were very similar and it became clear to us that the concerns parents had were common ones.

One of the major concerns of parents was confusion about their role in looking after their child once the hospitalization

they come to the hospital," says Ms. Hayes.

"At home they have been the ones caring

"Parents must adapt to a new role when

for the child, the ones responsible for administering medication; in general, they've been in control. When the child is hospitalized the parent's responsibilities are changed or taken away by the health care staff, and it can be confusing and frustrating for them.

They want to be good parents but they're not sure how much they are allowed to do for their child and how they fit into the

new environment.

"Time and time again in our interviews parents expressed anxiety because they were uncertain about where their authority with their own children lay. It wasn't that they didn't appreciate what the hospital staff were doing, but they needed a clearer idea about where their role in their child's

began. Another recurring concern that emerged was a sense of frustration about the lack of information about their child's condition

care ended and the health team's role

"Parents told us they wanted as much information as possible on anything to do with their child's illness. They wanted to know about the day-to-day procedures, what they could expect to happen, definitions of tests and so forth," says Ms. Knox. "Often nurses don't like to 'talk down' to parents and as a result they give them less information than is desired.

"Parents said they realized that they become saturated with information and can't always take it all in at once. So they appreciate it if the same information is repeated to them on several occasions.

Often this lack of information leads to a distrust of the health care staff," adds Ms. Knox. "The parents said a major cause of stress was the belief that details of their child's health were being withheld from

"Many of us in the health care field are guilty of imposing our own values on how much information a parent can cope with," says Ms. Hayes. "Parents in our study indicated clearly that they wanted to be the judge of how much they could tolerate. They can tell when they're not getting the whole story and they become anxious.

Another common topic in the interviews was the value of parent-to-parent support.

"Parents felt that no one could truly understand them unless they'd 'been there' themselves," says Ms. Hayes. "It was very

felt that only the parents of another child with cancer, or even the same type of cancer, could empathize with them. Consequently their best support came from

Nurses have to realize that they may be the best provider of technical care, the best provider of information and a whole realm of other areas, but they may not be the best provider of emotional support and therefore they should be directing parents towards people who can meet this need.

Of course the other side of this situation is that once a bond has been established with another parent they are faced with the emotional strain of another child's illness as well as their own child's. But usually they were able to tell when they could cope with this and when they couldn't.

The two researchers say that several practical applications for nursing care can be formulated from the responses they

received from parents. Parental involvement in the care of children in hospital is widely acknowledged and practised, but it's obvious that we have to make more of an effort to negotiate with parents and make sure that they are as involved in their child's care as they would like to be," says Ms. Knox.

Both researchers agree that it is essential that communication between health care workers and parents be on-going, and that the hospital staff make a conscious effort to promote a sense of trust between

themselves and the parents. One obvious way to promote trust is to spend more time talking with the parents about their child's care," says Ms. Hayes. "Many times routine nursing tasks are done in silence. If nurses talked with parents while performing tasks such as bathing the child, a greater rapport and consequently a greater sense of trust on the part of the

parents develops. "The parents are in a very stressful situation and I believe that part of our job as health care workers is to reduce that

anxiety as much as possible.' Ms. Hayes and Ms. Knox have spoken to a number of groups in the health care field at the local, national and international level about their findings

Scholarship fund set up

UBC's Board of Governors has approved establishment of a \$100,000 bursary fund for honors students in the Faculties of Arts and Science who will enrol for more than 161/2 units of course work in 1984-85.

Honors students will have to establish financial need to be eligible for a maximum bursary of \$250 in recognition of additional educational costs.

UBC's Office of Awards and Financial Aid will administer the bursary fund, which will be available in the 1984-85 fiscal year only. At the conclusion of the program, a report indicating the number of students who participated and the funds disbursed will be prepared for the Board.

New degree approved

Up to a dozen medical graduates are expected to enter a new program in September that will lead to a Master of Health Science (M.H.Sc.) degree.

It is offered by the Department of Health Care and Epidemiology, Faculty of Medicine.

The new degree, approved by Senate in January and by the Board of Governors earlier this month, may be taken in one of three content areas: Community Health. Occupational Health, or Clinical Epidemiology.

The estimated total enrolment is 12 students a year. Entrants must have a medical degree (M.D.) as well as one year of clinical internship and successful completion of HCEP 400 (statistics for health research) or its equivalent.

There are no budget or space implications in the new program.

Calendar Deadlines

For events in the weeks of March 4 and 11, material must be submitted not later than 4 p.m. on Thursday, Feb. 23. Send notices to Information Services, 6328 Memorial Road (Old Administration Building). For further information, call 228-3131.

The Vancouver Institute.



Saturday, Feb. 18

Deep Sea Vents: Lava and Life Under the Sea. Prof. R.L. Chase, Geological Sciences.

Saturday, Feb. 25

The Vancouver Sun Annual Lecture, East-West Security: Prospects for Peace. Prof. Condoleezza Rice Political Science. Stanford University.

Both lectures in Lecture Hall 2 of the Woodward Instructional Resources Centre at 8:15 p.m

MONDAY, FEB. 20

Contemporary Players.

Contemporary Canadian chamber music, with Stephen Chatman and Eugene Wilson, codirectors. Recital Hall, Music Building. 12:30 p.m

Science, Technology and Society Lecture.

Dioxin Dilemmas: Conversations With An Expert Advisor. Dr. G. Bellward, Pharmaceutical Sciences, UBC. Penthouse, Buchanan Building. 12:30 p.m.

Plant Science Seminar.

Why Study Spiders in Agriculture? Risa Smith, graduate student, Plant Science, UBC. Room 342, MacMillan Building. 12:30 p.m.

Decision-Making for Women.

The Office for Women Students begins a threesession workshop which will enable women students to acquire effective decision-making strategies while working on a specific current decision. Pre-registration required in Room 203, Brock Hall. Room 106A, Brock Hall. 12:30 p.m

Blood Donor Clinic.

Place Vanier Residence, 1935 Lower Mall. 3 to 9 p.m.

Mechanical Engineering Seminar. Mathematical Modelling of Flow-Induced

Vibration of Bluff Bodies. R. Corless. Room 1202, Civil and Mechanical Engineering Building. 3:30 p.m.

Statistics Workshop/Management Science Seminar.

Robust Versions of t and F Tests Based on Nonparametric Combinatorial Methods. Dr William Welch, Commerce, UBC. Room 413, Angus Building. 3:30 p.m.

Chemical Engineering Seminar.

Atomization of Non-Newtonian Fluids for Spray Drying in Food and Chemical Industries. Iva Filkova, Czech Technical University, Prague. Room 206, Chemical Engineering Building. 3:30 p.m.

The Pedersen Exchange.

The Pedersen Exchange is cancelled today. President Pedersen meets every Monday he is on campus with any member of the University community who wishes to discuss matters of concern. Main Library. 3:30 to 5 p.m.

Applied Mathematics Seminar.

Singular Perturbation Analysis of Boundary 'alue Problems for Differential-Difference Equations. Dr. Charles G. Lange, Mathematics, University of California, Los Angeles. Room 229, Mathematics Building. 3:45 p.m.

Preventive Medicine Seminar.

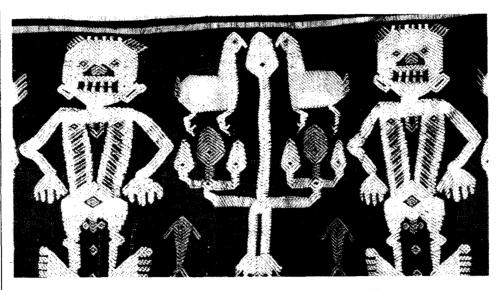
Impacting Health Care Costs Through On-Site Health Promotion Programs. Dr. Dean Grove, chief physician, Occupational Health, The Boeing Company, Seattle. Room 253, James Mather Building. 4 p.m.

Biochemical Discussion Group Seminar.

The Secreted Yeast Barrier Activity: How, Where and Why. Dr. Vivian L. MacKay, Zymo Genetics Ltd., Seattle. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Astronomy Seminar.

Star Formation From Molecular Cloud Cores. Dr. Frank Shu, Astronomy, University of California, Berkeley. Room 318, Hennings Building. 4 p.m.



An exhibit of Indonesian textiles continues at the Fine Arts Gallery until March 2.

TUESDAY, FEB. 21

Academic Women's Association.

Women and the Solidarity Coalition. Renata Shearer. Salons A and B, Faculty Club.

Forestry Seminar.

Development of Radiata Pine Stand Modelling in New Zealand. Dr. W.R. Sutton, New Zealand Forest Service. Room 166, MacMillan Building.

Botany Seminar.

Effects of Simulated Acid Rain on Soil Organisms and Chemical Cycling. A. Carter, Botany, UBC. Room 3219, Biological Sciences Building. 12:30 p.m.

Oceanography Seminar.

Manganese Nodules on the Ocean Floor: A New Way to Grow Them. Prof. S.E. Calvert, Oceanography, UBC. Room 1465, Biological Sciences Building. 3 p.m.

Chemistry Lecture.

The Chemistry of Unusual Reactive Intermediates: Polylithium Organic Compounds and Coordinatively Unsaturated Sigma-Bonded Metal Compounds Such as Alkyls. Prof. Richard J. Lagow, Chemistry, University of Texas. Room 250, Chemistry Building. 4 p.m.

International House Films.

The Jews of Winnipeg, Kasuby, and Spirits of an Amber Past. Admission is free. International House. 7:30 p.m.

WEDNESDAY, FEB. 22

Pharmacology and Therapeutics Seminar.

Pharmacodynamics of Calcium Entry Blockers on Vascular Smooth Muscle. Prof. M.C. Sutter, Pharmacology and Therapeutics, UBC. Room 317, Block C, Medical Sciences Building. 12 noon

Ethnic Studies Lecture.

Native Indian Self-Government in Canada: Multiculturalism Rejected or Recognized? Prof. Paul Tennant, Political Science, UBC. Room A203, Buchanan Building. 12:30 p.m.

Adult Education Seminar.

The Failure of Mass Education Experiment in Nigeria, 1946-1952, and Triumph of "Small is Best" in African Education. Michael Omolewa, visiting professor, University of Ibadan, Nigeria 1, Adult Education Research Centre, 5760 Toronto Rd. 12:30 p.m.

Noon-Hour Concert.

and others. Gwen Thompson violin; Eric Wilson, cello; and Linda-Lee Thomas, piano. Recital Hall, Music Building. 12:30 p.m.

Women Students' Office Forum.

Dr. Dorothy Goresky, physician, Student Health Centre, will lead a forum on Your Body/Your Mind/Your Anxiety. Room 223, Brock Hall. 12:30 p.m

Geography Colloquium.

Problems in Long Term Environmental Management. D. Russell, Civil Engineering, UBC. Room 201, Geography Building. 3:30 p.m.

Statistics Workshop.

Supplementary Analysis at the Conclusion of a Sequential Clinical Trial. Dr. John Whitehead, Applied Statistics, University of Reading. Room 223, Angus Building. 3:30 p.m.

Librarianship Discussion.

Panel Discussion and Multi-Ethnic Programming for Children in Public Libraries — Why and How? with Barbara Emerson, Joyce Moller, Fran Skene and Sharon Wilisser. Room 835, Main Library. 4:30 p.m.

Religious Studies Colloquium.

Christian Attitudes Toward Islam in the Middle Ages: The Role of the Almoravides. Prof. Hanna E. Kassis, Religious Studies, UBC. Salon A, Faculty Club. 4:30 p.m.

Animal Resource Ecology Seminar.

A Neutral Mating Model for Honey Bees. Dr. Chip Taylor, Systematics and Ecology, University of Kansas. Room 2449, Biological Sciences Building. 4:30 p.m.

Comparative Literature Colloquium.

Picture Theory: Modernism, Wittgenstein, and Brossard. Lorraine Weir, English, UBC. Penthouse, Buchanan Building. 4:30 p.m.

Regent College Lecture.

Wycliffe and the Bible. Regent College. 7:30 p.m.

Ileitis and Colitis Lecture.

Infectious Causes of Inflammatory Bowel Disease. Dr. H. Freeman, gastroenterologist. Lecture Hall G279, Acute Care Unit, Health Sciences Centre Hospital. 7:30 p.m.

Benefit Concert.

Soprano Patti Davidson Gorbea and pianist Philip Tillotson. For ticket information, call 228-3113. Recital Hall, Music Building.

THURSDAY, FEB. 23

Dentistry Lecture.

Demography, Disease, Money and Future Dentistry, Dr. Donald W. Lewis, MRC visiting professor, Dentistry, University of Toronto. Lecture Theatre, Anatomy Building, 8:30 a.m.

Psychiatry Lecture.

Pharmacology and Management of Depression in the Elderly. Dr. L. Corbett, clinical director, Psychogeriatric Unit, St. Lukes, Chicago. Room 2NA/B, Psychiatric Unit, Health Sciences Centre Hospital. 9 a.m.

Blood Donor Clinic.

Rooms 207, 209, SUB. 10 a.m. - 4 p.m.

UBC Chamber Strings.

Music of Mendelssohn and Shostakovich. John Loban, director. Recital Hall, Music Building. 12:30 p.m.

Botany Seminar.

The Bamfield Marine Station. Dr. R.E. Foreman. Room 3219, Biological Sciences Building. 12:30 p.m.

Dentistry Seminar.

The Iterative Loop - Future Dentistry's Needed Prophylactic. Dr. Donald W. Lewis, MRC visiting professor, Dentistry, University of Toronto, Lecture Hall 5, Woodward Instructional Resources Centre. 12:30 p.m.

Asian Institute Films.

Free films will be shown every Thursday on various aspects of Asian civilization. Auditorium, Asian Centre. 12:30 p.m.

Geological Colloquium.

Lichens: Aspects and Applications to the Earth Sciences. T. Goward, consultant, Vancouver Room 330A, Geological Sciences Building. 12:30 p.m.

MacMillan Forestry Lecture.

New Zealand's Experience with Radiata Pine Plantations. Dr. W.R.J. Sutton, New Zealand Forest Service. Room 166, MacMillan Building. 12:30 p.m.

English Lecture.

Intricacies of Death: Messages from the English Renaissance. Prof. Arnold Stein, University of Illinois. Room A203, Buchanan Building.

Noon-Hour Travels with Zoologists.

Inle Lake in Burma. Dr. C.C. Lindsey, director, Institute of Animal Resource Ecology, UBC. Room 2000, Biological Sciences Building. 12:30 p.m.

Film/Discussion.

The Baby Clock. This film is of primary appeal to those between the ages of 18 and 40 who face the dilemma of whether or not to have children. Produced and directed by Elvira Lount. Original music by Ann Mortifee. Pre-register in advance in Room 203, Brock Hall. 12:30 p.m.

Regent College Lecture.

The Hermeneutics of John Wycliffe. Regent College, 12:30 p.m.

Condensed Matter Seminar.

Elasticity Measurements and Charge-Density Waves: The Case of TiSea. A.M. Simpson, Dalhousie University, Room 318, Hennings Building, 2:30 p.m.

China Seminar.

Rural Violence in Socialist China. Prof. Elizabeth Perry, Jackson School of International Studies, University of Washington. Room 604. Asian Centre. 3:30 p.m.

English Lecture.

Death in Metaphysical Poetry. Prof. Arnold Stein, University of Illinois. Penthouse, Buchanan Building, 3:30 p.m.

Physics Colloquium.

The Work of the Research Secretariat of British Columbia. Dr. J. Sample, Research Secretariat of British Columbia. Room 201, Hennings Building. 4 p.m.

Tahitian Dinner.

Dietetics students present the last of a series of four ethnic dinners. Come to a Tahitian meal at Subway Cafeteria. 4:30 - 6 p.m. SUB Films.

Auditorium, Student Union Building, 7 and **CUSO-Development Education**

Risky Business. Continues until Feb. 26.

Series. Native People - North American Indians and Cultural Awareness. Free admission. For further information, call 228-4886 (a.m.). International House. 7:30 p.m.

Artificial Intelligence Lecture Series.

UBC's Centre for Continuing Education is sponsoring this series on the history, achievements and goals of artificial intelligence. For details, call 222-5276. Lecture Hall 3, Woodward Instructional Resources Centre. 7:30 p.m.

FRIDAY, FEB. 24

Family Therapy Symposium.

Feminism and Family Therapy. Prof. Jane Ursel, Sociology, University of Manitoba, and Dr. Pamela Raskin, director of Adult Outpatient Services, Solomon Carter Fuller Mental Health Centre, Boston. Continues on Saturday, Feb. 25. To register, call 228-6276 or 228-7022. Theatre, Psychiatric Unit, Health Sciences Centre Hospital. 9 a.m. to 4 p.m.

Obstetrics and Gynaecology Research Seminar.

Adaptations to Hypoxia from Air-Breathing Fish to Hibernating Mammals. Jeff Dunn, Zoology, UBC. Room 2N35, Grace Hospital. 12 noon.

Anthropology/Sociology Lecture.

Indo-Canadian Adjustment in Vancouver: Accepting Help from your Own Versus Others in Vancouver's East Indian Community. Marjorie Wood. Theatre Gallery, Museum of Anthropology. 12:30 p.m.

Dance Presentation.

Performers from the Paula Ross Company present an hour-long dance program. For more information, call 228-668 or drop by SUB 216E. Auditorium, Student Union Building. 12:30 p.m.

Medical Genetics Seminar.

Mammalian Parroviruses. Dr. C. Astell. Parentcraft Room, Grace Hospital. 1 p.m. Hockey.

UBC vs. the University of Saskatchewan. War

Memorial Gym. 8 p.m. Volleyball.

Men's Canada-West League playoffs. War Memorial Gym. 8 p.m.

SATURDAY, FEB. 25

Music Technology Lecture.

An overview of the state of the art in music synthesizer technology is being offered by UBC's Centre for Continuing Education. For registration details, call 222-5276. Lecture Hall Woodward Instructional Resources Centre. 10 a.m. to 4 p.m.

Hockey. UBC vs. University of Saskatchewan. War Memorial Gym. 8 p.m.

Volleyball.

Men's Canada-West League playoffs. If necessary, an additional game will be played on Sunday at 2 p.m. War Memorial Gym. 8 p.m.

Continued on Page 4

CALENDAR

Continued from Page 3

MONDAY, FEB. 27

Cancer Research Seminar.

Techniques for Removing Malignant Cells from Bone Marrow. Dr. Fred Appelbaum, Hematology, Fred Hutchinson Cancer Research Centre, Seattle. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave. 12 noon.

Blood Donor Clinic.

Totem Park Residence, 2525 West Mall. 3 to 9 p.m.

Israel Week Lecture.

Cultural Diversity in Jerusalem. Prof. Shlomo Hasson, visiting professor, Canada-Israel Academic Exchange. Room A202, Buchanan Building. 12:30 p.m.

Mechanical Engineering Seminar.

Free Jet Flow into the Converging Nip between Counter-Rotating Cylinders. N. Gune. Room 1202, Civil and Mechanical Engineering Building. 3:30 p.m.

The Pedersen Exchange.

An opportunity for any member of the University community to meet with President Pedersen to discuss matters of concern. Persons wishing to meet with the president should identify themselves to the receptionist in the Librarian's office, which is immediately to the left of the main entrance to the Main Library. 3:30 to 5 p.m.

Management Science Seminar.

Actively Adaptive Policies in the Management of Renewable Resources. Prof. Carl Walters, Animal Resource Ecology, UBC. Room 413, Angus Building. 3:30 p.m.

Applied Mathematics Seminar.

Finite Amplitude Disturbances of the Boundary Layer. Dr. Fausto Milinazzo, Royal Roads Military College, Victoria. Room 229, Mathematics Building. 3:45 p.m.

Biomembranes Discussion Group Seminar.

Chemical Modification of the Ion Selectivity of Channel Forming Proteins from Bacterial Outer Membranes. Dr. R. Hancock, Microbiology, UBC. Lecture Hall 4, Woodward Instructional Resources Centre. 4 p.m.

Astronomy Seminar.

Understanding CNO Nucleosythesis through Nebular Spectroscopy. Reginald J. Dufour, Dominion Astrophysical Observatory and Rice University. Room 318, Hennings Building. 4 p.m.

Zoology Physiology Group Seminar.

Endorphins and the Development of Ventilatory Control. Dr. V. Chernick, Paediatrics and Child Health, University of Manitoba. Room 2449, Biological Sciences Building. 4:30 p.m.

Immunology Group Seminar.

Immunology of Factor VIII. Dr. Gayle Rock, Medicine, University of Ottawa. Salons B and C, Faculty Club. 8 p.m.

TUESDAY, FEB. 28

Forestry Seminar.

The World Population Situation: Implications for World Resources, John Friesen, Room 166, MacMillan Building, 12:30 p.m.

Botany Seminar.

Establishment of Fungi and Mycorrhizal Plants in Volcanic Deposits of Mt. St. Helens. G. Hunt, Forest Science. Oregon State University. Room 3219. Biological Sciences Building. 12:30 p.m.

Israel Week Lecture.

Religious Pluralism in Israel. Asher Sandler, West Coast Shaliach to the Union of American Hebrew Congregations. Room A202, Buchanan Building. 12:30 p.m.

Oceanography Seminar.

The Sound of Wind and Rain: Measurement of Ambient Noise in the Ocean Off the B.C. Coast. Dr. David Farmer, Institute of Ocean Sciences, Sidney, B.C. Room 1465, Biological Sciences Building. 3 p.m.

Chemistry Lecture.

Looking at the Orbitals in the Laboratory. Prof. Chris Brion, Chemistry, UBC. Room 250, Chemistry Building. 4 p.m.

Israel Week Presentation.

Videotape screening of Amos Oz's Reflections on Israel and the Diaspora followed by discussion with Asher Sandler and Rabbi Daniel Siegel. Hillel House. 7 p.m.

Gerontology Lecture.

The Be-Well Program: Theory to Practice in Health Promotion. Dr. Nancy H. Nelson, director, Be-Well Project, Health & Welfare Canada, West End Community Centre, Vancouver. Lecture Hall 3, Woodward Instructional Resources Centre. 7 p.m.

International House Films.

The Hutterites and Waterloo Farmers. Free admission. International House. 7:30 p.m.

WEDNESDAY, FEB. 29

Pharmacology and Therapeutics

Cellular Actions of Anaesthetic Agents. Dr. S.H. Roth, Pharmacology and Therapeutics, University of Calgary. Room 317, Block C, Medical Sciences Building. 12 noon.

Israel Week Festival.

Falaffel lunch and festival of Israel dancing. Ballroom, Student Union Building. 12:30 p.m.

Noon-Hour Concert.

Paul Coker, piano. Recital Hall, Music Building. 12:30 p.m.

Geography Lecture.

Careers in Urban Planning, J. Carline, planner, City of Vancouver, Room 214, Geography Building, 12:30 p.m.

Women Students' Office.

Is Loneliness Becoming Epidemic? June Lythgoe, director, Office for Women Students, and Rev. George Hermanson. Room 223, Brock Hall. 12:30 p.m.

Anatomy Seminar.

In Vivo NMR: Anatomical Imaging and Physiological Spectroscopy. Dr. Laurie Hall, basic science director, UBC Imaging Research Centre. Room 37, Anatomy Building. 12:30 p.m.

Botany Seminar.

Rhizosheath Grasses, N₂-Fixation and Sand Dunes. L.H. Wullstein, Biology, University of Utah. Room 3219, Biological Sciences Building. 12:30 p.m.

Geography Lecture.

Space-Time Scale Problems in Urban Planning Practice. J. Carline, planner, City of Vancouver. Room 201, Geography Building. 3:30 p.m.

Statistics Workshop.

Analysis of Several 2×2 Tables Using an Empirical Bayes Approach. Dr. Martin A. Hamilton, Mathematical Sciences, Montana State University. Room 223, Angus Building. 3:30 p.m.

Underwater Science Seminar.

Diving for Science in the Antarctic. Jim Stewart, diving officer, Scripps Institution of Oceanography. Room 1465, Biological Sciences Building. 4 p.m.

Animal Resource Ecology Seminar.

The Importance of Within and Between Plant Variation as a Defense Against Plant Pests. Dr. Tom Whitman, Museum of Northern Arizona, Flagstaff, Arizona. Room 2449, Biological Sciences Building. 4:30 p.m.

THURSDAY, MARCH 1

Essay Skills Workshop.

Nancy Horsman of the Women Students' Office will give three one-hour workshops to assist students increase their skills in preparation of essays and examinations. They will be held three Thursdays March 1, 8 and 15. Room B212, Buchanan Building. 12:30 p.m.

UBC Wind Symphony.

Music of Debussy, Weisgarber, Mendelssohn and others. Martin Berinbaum, director, and William Schaefer, guest conductor. Old Auditorium. 12:30 p.m.

Asian Institute Films.

Free films will be shown every Thursday on various aspects of Asian civilization. Auditorium, Asian Centre, 12:30 p.m.

Faculty Association.

General meeting, Room 100, Mathematics Building, 1 p.m.

Condensed Matter Seminar.

Cryogenics and the Future of Superconducting Devices. James E. Zimmerman, National Bureau of Standards, Boulder. Room 318, Hennings Building. 2:30 p.m.

Physics Colloquium.

Advanced CANDÛ Reactor, J. Slater, A.E.C.L., Chalk River, Room 201, Hennings Building, 4 p.m.

CUSO-UBC Development Education Series.

Tonight's theme is Education -- Is a Western Model Appropriate? Free admission. For further information, call 228-4886 (a.m.). International House. 7:30 p.m.

SUB Films.

Snow White and the Seven Dwarfs. Continues until March 4 with shows at 7 and 9:30 p.m. on Friday and Saturday and at 7 p.m. on Sunday. Auditorium, Student Union Building. 7 p.m.

Faculty Recital.

Music of Mertz, Hasenorhl and Scholz. Robert Jordan, guitar. Recital Hall, Music Building. 8 p.m.

FRIDAY, MARCH 2

Classics Lecture.

Roman Comedy and Poetic Justice. Prof. W.S. Anderson, University of California. Room A202, Buchanan Building. 12:30 p.m.

Anthropology/Sociology Lecture.

Agriculture and Rural Development in South China: Fieldwork Conducted in 1982/83. Dr. Graham Johnson, Anthropology and Sociology, UBC. Theatre Gallery, Museum of Anthropology. 12:30 p.m.

Israel Week Lecture.

Opportunities in Israel. Yishai Knoll from the Israel Aliyah Centre. Hillel House. 12:30 p.m.

UBC Collegium Musicum.

John Chappell and John Sawyer, co-directors. Recital Hall, Music Building. 12:30 p.m.

Career Planning Workshop.

Career Planning for a New Future. Planning a career is more complicated than ever. This course will present information, options and decision-making for women who are exploring career directions. Pre-register in Brock 203. Call 228-2415 for details. Penthouse, Buchanan Building. 12:30 p.m.

Medical Genetics Seminar.

Immunogenetics of Multiple Sclerosis. Dr. Joel Oger. Parentcraft Room, Grace Hospital. 1 p.m.

Adult Education Seminar.

Social Reformation and Adult Education in a Declining Moshav: An Attempt at Rural Development in Israel. Prof. Eitan Israeli, The Levi Eshkol School of Agriculture, The Hebrew University of Jerusalem. Room 1, Adult Education Research Centre, 5760 Toronto Rd. 1:30 p.m.

Chemistry Seminar.

Microwave Fourier Transform Spectroscopy. Dr. Heinrich Mader, Institut fur Physikatische Chemie der Universitat Kiel, West Germany. Room 225, Chemistry Building. 2:30 p.m.

Sigma Xi, Scientific Research Society.

UBC Club has arranged a Science and Technology Tour of Fraser Valley Dairy Processing Plant, 6800 Loughheed Hwy. in Burnaby, starting at 3 p.m. at the reception desk. For more information call Prof. I.D. Desai, Family and Nutritional Sciences, 228-2468.

Classics Lecture.

Terence. Prof. W.S. Anderson, University of California. Room C154, Buchanan Building. 3:30 p.m.

UBC Wind Symphony.

Martin Berinbaum, director, and William Schaefer, guest conductor. Old Auditorium. 8 p.m.

SATURDAY, MARCH 3

UBC Grade 11 and 12 Honor Band

Martin Berinbaum, director, and William Schaefer, guest conductor. Old Auditorium. 8 p.m.

Notices . . .

Pipers and Drummers

Pipers and drummers wanted for campus pipe band. For information, call Edward Mornin at 228-5140.

Daycare openings

Full- and part-time openings available in cooperative campus daycare units for ages 18 months to 3 years. Monday to Friday, 8 a.m. to 5 p.m. Call 228-3019 (days) or 261-8964 (evenings) for further information.

French and Spanish Classes

Six-week, non-credit conversational French and Spanish classes begin March 6. Special French class for UBC faculty and staff on Tuesdays and Thursdays from 5 to 7 p.m. Saturday morning Language Teaching Technique class begins on March 10. In addition, one-day French and Spanish programs are being held on March 4. For details on language programs, call 222-5227.

Graduation applications

A reminder that application for graduation cards must be returned immediately to the Registrar's Office for May graduation. Students graduating in November must return their application cards by Sept. 15. Cards are available at the Registrar's Office. General Services Administration Building.

Travel Programs

UBC's Centre for Continuing Education offers a wide range of educational travel programs. For details, call 222-5257.

Continuing Ed programs

The Centre for Continuing Education is offering the following programs in March: Life Against Death: Transformative Visions of Human Possibilities; On Becoming More Fully Human: An Evening with Virginia Satir; Knowing Thyself: Back Full Circle to the Ancient Greek Ideal; The Art of Emotional First Aid; The El Nino Current Phenomenon; and Toward a Humane Architecture. For registration details, call 222-5261.

Museum of Anthropology

EXHIBITS: The Copper that Came from Heaven: Dance Dramas of the Kwakwaka wakw, until April 8; Tupilaq: Greenland Spirit Carvings, until March 4; Museum Quality, until March 4; Blood from Stone: Making and Using Tools in Prehistoric British Columbia, until

Tools in Prehistoric British Columbia, until April 29.
COPPER, SALMON, CEDAR: Three illustrated programs at 1, 2, and 3 p.m. on Sundays. Free with museum admission.

GUIDED WALKS: Guided walks of the

museum's Coast Salish Collection with Native Indian guides. Wednesdays through Sundays, group bookings necessary, 228-5087. IDENTIFICATION CLINICS: Free clinics on identification and preservation of artifacts and collectibles. Feb. 28, March 27, April 24 at 7

p.m.
SNAKE IN THE GRASS MOVING THEATRE:
Feb. 19, Feb. 26, March 4, March 11 at 2:30
p.m. Free with museum admission.
FOLKSTONE AND THE FLIGHT OF THE
FLUTES: Flute-making workshop for children
eight years and older. Feb. 18 and 25. For

details, call 228-5087.

ON STONY GROUND: On Stony Ground, an exhibit of prehistoric stone artifacts from Saskatchewan, is being circulated to two campus units in February and March. Beginning Feb. 27 the exhibit will be on display in the Scarfe (Education) Building and from March 5 to 31 it will be displayed in the Main Library. The exhibit was prepared by the volunteer associates archeology committee of the Museum of

Anthropology.

For more details on museum activities, call

The University and Community

A 30-minute documentary entitled Advanced Technology: The University and the Community will be aired on Cable 10 on the following dates: Feb. 19 at 9:30 a.m.; Feb. 20 at 4 p.m.; Feb. 23 at 8 p.m.; Feb. 25 at 5:30 p.m. The documentary examines some of the high technology research under way at UBC and SFU and how it affects the province of British Columbia.

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