UBC Archives Serial

UBC Reports

Volume 33 Number 3, February 5, 1987

CUPE boosts bursary

As we go to press, CUPE 116 has just donated $1,000 to the Rick Hansen Special Needs Student Bursary. Ken Andrews, President of CUPE 116, says the union's members were "inspired to donate the money because Hansen has caught our attention, and we like the idea of the government matching our funds.

"The union has always tried to support the University," he says, "and we're not finished yet. We urge and encourage others to donate as they are able to this cause."

In addition to private donations, all proceeds from the Celebrity Alumni Concert and Auction, to be held the eve of Open House Mar. 5, will go to the special needs bursary.

Board business notes

The votes have been tallied in the elections for Board of Governors representatives. Dr. Sidney Mindess, Civil Engineering, and Dr. Patricia Baird, head of Medical Genetics, are faculty representatives for a three year term. Dr. Baird was re-elected for her second term. Physical Plant electrician, George McLaughlin, has been re-elected representative for full-time employees who are not faculty members, also for a three year term. Student representatives on the Board are commerce student Simon Seshadri and law student Doug Stewart, both will serve a one year term. Terms for all representatives begin Feb. 1.

At the Board of Governors meeting, Jan. 29, a four percent increase in tuition fees was approved. The new fee scale comes into effect April 1 this year.

In other business the Department of Metallurgical Engineering in the Faculty of Applied Science has a new name; it's now officially the Department of Metals and Materials Engineering.

New club wing opens

The new guest wing of the Faculty Club was officially opened by UBC Chancellor Robert Wyman last Thursday, Jan. 29. More than 50 guests attended the opening ceremony including many UBC faculty and staff who were involved in the planning and construction. The two-floor club addition features 12 new one and two bedroom suites with balconies. "The guest wing was totally a faculty club project and construction costs will be paid out of generated revenue," says Prof. William Cullen, chairman of the board of directors for the Faculty Club. Cost of the wing was $776,000. "Accomodation can be booked by any club member for family, friends and colleagues," Prof. Cullen adds

Campus safety week

Next week, Feb. 9-13 is UBC's first Safety Awareness Week and the University Health and Safety Committee is planning a program of special events to heighten awareness of campus safety issues.

A two day Spotlight on Safety Show, featuring safety product manufacturers and suppliers, will be set up in IRC to exhibit such items as safety apparel and eyewear, and containers for toxic waste. The show runs Wednesday and Thursday only, Feb. 11 and Feb. 12 from 9 to 5.

Free lectures will be offered Monday to Thursday in IRC lecture hall 4 at 12:30. Featured topics include work related stress, back pains and how to avoid them, video display terminals and the workplace, and a look at the role of the Workers Compensation Board. "We're hoping the event will become an annual feature and one in which local safety committees will become involved," said Dr. Wayne Greene, head of UBC's Occupational Health and Safety Office.

More information about Safety Week may be obtained from the University Safety Committee at 228-5778.

Grant buys computers

A recent grant of $90,000 from Shell Canada will enable the Geophysics and Astronomy department to update computer equipment used in research. "A large part of the grant will be used as a base for getting sophisticated equipment to do state-of-the-art geophysical analysis and aquisition," says Dr. Matthew Yedlin, lecturer in geophysics and astronomy. "The equipment will also enhance our research capabilities and will be an assett to our graduate and undergraduate teaching programs."

The grant is in two parts; the department received $45,000 in November last year and will receive the balance in the early part of this year. A Geometrics seismic refraction recorder has already been purchased for use in faculty research projects and in undergraduate labs. "It's a very useful teaching and exploration tool which interfaces with a computer and allows students to do high quality multi-channel seismic surveying," Dr. Yedlin said.

An Invitation

Famous UBC Alumni Invite You to Join Them for a Special Celebrity Alumni Concert and Auction to Celebrate UBC's 72nd Anniversary

■ PROCEEDS TO RICK HANSEN SPECIAL NEEDS BURSARY

Judith Forst, mezzo-soprano; David Suzuki, scientist and broadcaster; John Gray, playwright and composer; Earle Birney, poet; Jack Webster, broadcaster; Bjarni Tryggvason, astronaut; Bob Osborne, 1936 Olympic champion; J.V. Clyne, Chancellor Emeritus; Gordon Campbell, mayor of Vancouver; Sam Black, artist; Allan Fotheringham, political columnist; Harold Wright, 1932 Olympic champion; and Jack Webster, radio personality are all coming to share their time and talents in a gala evening to kickoff UBC's first campus-wide Open House in eight years!

6:15 pm, Thursday, March 5, 1987, at the War Memorial Gym
Sumptuous Cocktail-buffet including wine
$50 per person ($25 tax-deductible)
$500 per table of ten

■ Featured entertainment includes cameo performances by the alumni above, plus other surprise guests and items.

■ One-of-a-kind items and experiences to be auctioned include a special package worth $3000 for a wedding in a superb UBC setting

▶ *One-half day in the garden with the Western Gardener David Tarrant*
▶ *One year's rental of paintings from UBC's excellent Fine Arts Gallery Collection*
▶ *Dinner for 10 at the President's private residence with the President, Mrs. Strangway, and Rick Hansen*
▶ *A poem written especially for the occasion by Earle Birney; signed and framed*
▶ *An original watercolour by Sam Black*
▶ *Three leather-bound volumes of the 1976 Montréal Olympics*
▶ *Personal opera tape from Judith Forst*
▶ *The flashlight Margo Kidder used when she was an usherette at the UBC Frederic Wood Theatre plus four tickets to a Frederic Wood Theatre production*
▶ *A fish print by David Suzuki*
▶ *A Canadian astronaut badge that has flown in space, with framed National Research Council authentication letter*
▶ *An evening of entertainment performed by John Gray for your at-home party or special event*
▶ *Two free tickets to Hawaii*
▶ *A special guest spot on the Jack Webster Show*
▶ *Several surprise items, to be revealed on that night*
▶ *Two Las Vegas plane tickets as a door prize, plus much more...*

For more information, please contact:
Diana Korvin 228-3313
University of British Columbia
6251 Cecil Green Park Road
Vancouver, B.C. V6T 1W5

THE UNIVERSITY OF BRITISH COLUMBIA

Students needed as volunteers

Calling all students with enthusiasm and energy! A great opportunity awaits you to have fun, meet some new people and join the activities for the largest UBC Open House ever.

Former AMS President Margaret Copping is looking for student volunteers to act as campus hosts during the three-day extravaganza. "All we need is a few hours of each student's time to welcome visitors to campus, help direct them to activites and generally show them what a great place UBC is," says Ms. Copping. "and we will be organizing a thank you party for all the student volunteers once the decent weather comes. We will be arranging a schedule, so that no-one will need to be 'on duty' for more than one shift."

Margaret Copping, can be reached through the office of AMS Vice President Rebecca Nevraumont, who is also lending her energy and support, and is a member of the Open House executive committee. Now's the time to commit yourself, and get involved! Contact Ms. Nevraumont's office at 228-3092, and support your University!

* * *

Student volunteers with Class Four drivers licences are also needed urgently to drive mini-buses for an on-campus shuttle service during Open House. Please contact Graham Argyle in Facilities planning 228-2698.

New garden unique

One of the Faculty of Education highlights of Open House will be the start of construction of a permanent old-fashioned children's garden next to the Scarfe building. "The garden will be a model learning environment for children and also serve as a beautiful retreat and sanctuary for faculty, staff and students," says Dr. Gary Pennington, Coordinator of the project.

The garden will be named the Neville Scarfe Children's Garden as a tribute to the late Dean Emeritus Neville Scarfe, the first Dean of Education and a firm believer in the value of children's play.

"In our design we're going back to the literature on children's gardens to see what features are of strong and lasting appeal to children," says Dr. Pennington. "We want to create something they will find enchanting. We hope this unique garden will be as much of a feature on campus as the celebrated Nitobe Gardens."

Dr. Pennington says the project staff are hoping for support from day care associations, preschool groups, and interested parents. "Anyone from the University or from the community at large wanting to get involved in the project is welcome," Dr. Pennington says. "In one sense it's as easy as people donating a rhododendron, or fruit tree from their garden. We want this to be a place that people at UBC and university alumni have created."

According to Dr. Pennington, the "Pennies for the Scarfe Children's Garden" fund-raising campaign is well underway. A recent benefit auction raised more than $2,000.

Turn to Page Two see GARDEN

New labs up and running

Members of UBC's School of Physical Education and Recreation have moved into new research facilities in the War Memorial Gymnasium that cost nearly $500,000 to construct.

The man who's most pleased about the new development is the school's director, Dr. Robert Morford, who says he'll no longer have to answer the question: "How come your faculty turn out such good research in such poor circumstances?"

That question, Dr. Morford says, stems from the fact that UBC sports science research has a high profile nationally and, in some cases, internationally.

"The new research area," he said, "is an upgrading of existing facilities and reflects that in recent years there has been an influx of new, young faculty members, all with excellent backgrounds, who have been doing their studies in less than ideal circumstances.

As an example of research that has enhanced the school's reputation, Dr. Morford cites studies by Dr. Ian Franks, who has received grants of more than $55,000 over the last two years for computer analysis of sports events.

Dr. Franks has pioneered the use of the computer for tracking game events and analysing the patterns that lead up to a score. "This research provides both coaches and players with insights about how a game unfolds and has ramifications for both coaching effectiveness and player performance," Dr. Morford said.

Yet another area that has given UBC a high profile in sports science research is the elite-athlete performance program in the Buchanan Testing and Fitness Centre, run by Dr. Ted Rhodes in the UBC Aquatic Centre.

The centre has contracts with a number of national teams for testing and performance measurement. Over time, it has accumulated a huge data bank that can be drawn on for research purposes.

The new complex of labs will include an Exercise/Physiology unit staffed by Dr. Kenneth Coutts, whose work on the biophysical aspects of sports activity includes the energy requirements of wheelchair athletes, and Dr. Donald McKenzie, an expert in the biochemistry of exercise who works closely with experts in the B.C. Sports Medicine Clinic located on the UBC campus.

Other units that are part of the new lab complex include one for motor control research, one that will generate programs for athletic assessment teaching routines and teaching areas for anatomy and physiology courses offered by the school.

Native Indian lawyers needed

UBC is playing a key role in helping Canada's native people gain fair representation in the legal profession.

Through its Native Law Program, established in 1976, native students who would not normally meet admission requirements are allowed to enter law school on a discretionary basis. Once they've been admitted, students receive special tutorials and workshops to help them successfully complete their studies.

"We're asking them to compete with the very brightest of minds that come to law school, but we're giving them a support system," says the program's director Sam Stevens, an Ojibwa Indian and a UBC law graduate. "Native students often haven't had the educational opportunities available to other Canadians, but when doors are opened for them, they perform very well."

A recent survey in The Lawyers Weekly showed that UBC, which has graduated 23 native lawyers since 1976, has trained almost twice as many native students as any other Canadian law school. Queen's University ranked second with 12 native graduates.

Mr. Stevens says concern about the lack of representation of Indians, non-status Indians, Metis and Inuit people in the legal profession has increased in the past decade.

"Native people make up about 2 per cent of Canada's population," he says. "In order to have proper representation in the legal ranks, there would have to be approximately 800 native lawyers in Canada. There are presently about 100, including Canada's only Inuit lawyer, David Ward, who graduated from UBC in 1984.

"B.C. in particular has recognized the special legal problems facing native people as they enter sensitive negotiations on aboriginal rights and land claims," adds Mr. Stevens.

"There has to be a high level of trust in any lawyer-client relationship. In the case of B.C.'s native population, that trust increases when they are represented by one of their own people. A native lawyer is much more likely to understand the lifestyle, traditional laws and customary laws of a native community than would the average white lawyer."

One of the reasons UBC's law school is popular with native students is the focus on topics such as aboriginal rights and environmental law. "The students gain expertise that directly affect their people," says Mr. Stevens. "Not all law schools offer courses in these areas."

UBC has recently added a new dimension to the Native Law Program. Native lawyer Vina Starr has joined the program as an advisor in the area of self-government for tribal councils and bands.

University has resource role

Political Science professor, Paul Tennant, says UBC plays an important role in Native Indian Land claims. Dr. Tennant, who teaches a course on Native Indians and politics, says Native people are becoming more aware of the resources available to them at the University, and non-Native students have increasing access to information surrounding aboriginal issues.

"Students are graduating with more knowledge in this area, which will help them to make informed decisions later on," Dr. Tennant says. "In addition, an increasing number of faculty and departments are connected to, and working with, Indian groups in areas of mutual interest."

Dr. Tennant became involved in Native Indian politics six years ago when a federal government task force asked him to design a study on the political aspects of Native Indian organization in B.C. "As the project evolved I realised what a huge issue I had missed at university," Dr. Tennant says. He subsequently spent a year on sabbatical, visiting various Indian communities and gathering information as an unobtrusive observer. He has since become a well-known expert on Native Indian politics in B.C., and is currently serving as a advisor to Yukon Indian bands on land claims.

"The 12 bands have formed a Council for Yukon Indians to work towards Native Indian self government," says Dr. Tennant. " We work at the community level, and sometimes that means camping out in the bush for a week, away from the distractions of the community, to formulate policy proposals and strategy."

"Faculty are resource people and I feel a critical part of our academic work is to educate the public," Dr. Tennant says. "In my consulting, I am clearly working for the Native Indians, but my university role is not to defend Native Indian rights. I am primarily an academic and a resource for people in B.C. My job is to provide the facts."

According to Dr. Tennant, many misconceptions still exist about Native Indians and people often wrongly link aboriginal issues and multicultural issues together. "People expect Native Indians to fit their idea of immigrants," Dr. Tennant said, "but the issues are quite separate."

GARDEN continued from Page One

As well, donations from several senior emeritus professors who were colleagues of Neville Scarfe, have contributed to the fund. "Our target figure for fund raising for the project is $10,000," Dr. Pennington says.

"An exciting aspect of the project is the links between students, faculty and staff, many of whom are working together on different aspects of the project," Dr. Pennington says.

Construction costs will be reduced by volunteer labour including a dozen UBC landscape architecture students who are lending their services to the project. Organizers are also soliciting for donations of material and services. Anyone wishing to get involved in the project can contact Dr. Pennington at 228-6386 or 228-2165.

Fishing for cancer cures

Two potential anti-cancer drugs have been fished from the sea by a UBC marine chemist. The discovery by Dr. Ray Andersen is part of a world-wide effort by scientists and pharmaceutical companies to extract useful compounds for cancer treatment from marine animals, such as the starfish pictured above. Dr. Andersen's discovery will be among the many exciting research breakthroughs highlighted at UBC's campus-wide Open House on March 6, 7 and 8.

Soshin Watanabe demonstrates the Way of Tea to Fine Arts undergraduate Tim Maraun as graduate student Lynn Katey looks on. The Tea Ceremony, Cha No Yu, is a uniquely Japanese combination of ritual, social gathering, performance art, and meditation, that has been practised virtually unchanged since it was perfected 400 years ago by Sen Rikkyu, tea master to the Shoguns. The fifteenth generation descendant of Sen Rikkyu is the present Grand Master of the Ura Senke School for Tea, which has chapters not only in Japan but also in major cities throughout the world. Mrs. Watanabe, who heads the Vancouver Chapter, regularly instructs a class of UBC faculty and students in the Wa Ko An, a demonstration tea room in the gallery of the Asian Centre

PEOPLE

UBC's Dean of Dentistry **George Beagrie** will become the first recipient of an honourary Doctorate of Dental Surgery from the University of Edinburgh. Prof. Beagrie will travel to Scotland in July of this year to accept the degree. The doctorate was established in the early sixties, but Prof. Beagrie is the first recipient to have been selected by the Edinburgh university. Prof. Beagrie has an honourary Doctorate of Science from McGill University, received two years ago.

LETTERS

In your January 22, 1987 issue of UBC Reports you list a number of languages offered at this university ("Learn to speak a foreign language", p.3). While you do mention Slovak and Polish, it is Russian that deserves mentioning as the most important Slavic language. The political, social, cultural, and scientific benefits of learning Russian, if we are serious about peace, for example, should not be underestimated.

Dr. Peter Petro
Acting Head, Slavonic Studies

Letters are welcome and may be on any topic of interest to the university community. Please be brief, no more than 150 words, and send to The Editor, UBC Reports.

Bruce Macdonald, acting director of UBC's Botanical Garden, has just returned from a B.C. government-sponsored trade mission to Canada's major horticultural trade show in Toronto, where he was promoting B.C. nursery products. Also featured at the B.C. exhibit was UBC's Plant Introduction Scheme, an unique program which introduces new plant material to B.C. gardeners.

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Zoology professor **David Jones** was interviewed on Australia's national radio network, ABC, recently about his research into diving physiology. Dr. Jones and UBC colleague Dr. Geoffrey Gabbert were in Australia on a joint project with the zoology department of the University of Melbourne to study the diving physiology of the platypus. Dr. Jones was featured on The Science Show, a regular feature of the Australia Broadcasting Corporation; the interview aired in late November. ABC is planning to publish a series of interviews, including Dr. Jones', in a popular science publication later this year.

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Professor Emeritus of Anthropology and Sociology, **David F. Berle** was the distinguished lecturer at the annual meeting of the American Anthropological Association in Philadelphia, Dec. 6 last year. Prof. Aberle spoke on "What Kind of Science is Anthropology".

Library report launched

Librarian Douglas McInnes accepts a leather-bound copy of the recently published President's Report on the Library from President Strangway. The presentation was made at a reception held to launch the report and reintroduce the "Friends of the Library" organization. Copies of the report are available through the Community Relations Office.

UBC Calendar

THE VANCOUVER INSTITUTE

Saturday, Feb. 14
Asbestos: Science and Public Policy..Dr. Hans Weill, Pulmonary Diseases, Tulane University School of Medicine..

Saturday, Feb. 21
Canada and the U.S.: Trade Realities. The Honourable Allan E. Gotlieb, O.C. Ambassador to the United States, Washington, D.C..

Lecture Hall 2, Woodward Instructional Resources Centre. Free. 8:15 p.m.

SUNDAY, FEB. 8

Thunderbird Men's Gymnastics.
Dual Meet. Osborne Gymnasium. 10 a.m.

Snake in the Grass Moving Theatre.
The Museum of Anthopology's resident theatre group presents more clowning and storytelling with Koko and Garbanzo. Performance free with museum admission. For further information call, 228-5087. Great Hall, Museum of Anthropology. 2:30 p.m.

Thunderbird Field Hockey.
Women's Invitational Tournament finals. UBC Armouries. All day.

MONDAY, FEB. 9

Science for Peace Lectures.
Military Strategy and the Arms Race. Prof. Michael Wallace, Political Science, UBC. Room A205, Buchanan Building. 12:30 p.m.

Safety Awareness Week Seminar.
Working Women and Stress – Public and Private Realities. Clarissa Greene, Nursing, UBC. IRC 4. 12:30 p.m.

Mechanical Engineering Seminar.
Stability of Delp Satellites. Said R. Marandi, Graduate Student, Mechanical Engineering, UBC. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Biochemistry Seminar.
Universal Replication Enzyme and its Use in Mapping of Point Mutations in Eukaryotic Genomes. Dr. W. Szybalski, McArdle Laboratory for Cancer Research, University of Wisconsin. IRC 4. 3:45 p.m.

Astronomy Seminar.
Black Holes in Galaxy Nuclei. Dr. John Kormendy, Dominion Astrophysical Observatory, Victoria. Room 260, Geophysics and Astronomy Building. 4 p.m.

Psychology Colloquium.
Early Intervention For Child Abuse and Neglect. Dr. David Wolfe, Psychology, University of Western Ontario. Room 2510, Kenny Building. 4 p.m.

International House Film Night.
India: Home and the World. Everyone welcome free of charge. Gate 4, International House. 7:30 p.m.

TUESDAY, FEB. 10

History and Faculty of Applied Science and STS Studies Public Lecture.
Technology On Its Toes: Ballets, Pageants and Industrial Exhibitions (Illustrated). Prof. Bruce Sinclair, University of Toronto. Room A102, Buchanan Building. 12:30 p.m.

Safety Awareness Week Seminar.
Back Pain, Try to Avoid It. Dr. K. J. Postma, Worker's Compensation Board. IRC 4. 12:30 p.m.

Botany Seminar.
Serpentine Habitats As Evolutionary Islands. Dr. Arthur Kruckeberg, Botany, University of Washington. Room 3219, Biological Sciences Building. 12:30 p.m.

Chemistry Seminar.
Recent Advances and Simplifications in Mechanistic Coenzyme B12 Chemistry. Prof. Richard G. Finke, Chemistry, University of Oregon. Room 250, Chemistry Building. 1 p.m.

Oceanography Seminar.
Comparative Oceanic Ecology of the Plankton Communities of the Subarctic Atlantic and Pacific Oceans. Prof. T. R. Parsons, Oceanography, UBC. For further information call, Dr. W. Hsieh 228-2821. Room 1465, Biological Sciences Building. 3:30 p.m.

Statistics Workshop.
On the Index of the Largest Observation. Ishay Weissman, Technion-Israel Institute of Technology. Room 102, Ponderosa Annex C. 3:30 p.m.

Metals and Materials Engineering Seminar.
A Mathematical Model of the Slimes Formed During the Betts Electrorefining Process. A. Gonzalez, Graduate Student, Metals and Materials Engineering Department, UBC. Room 317, Frank Forward Building. 3:30 p.m.

History and Faculty of Applied Science and STS Studies Discussion.
The Teaching of Science, Technology and Society Studies at the University of Toronto. Prof. Bruce Sinclair, University of Toronto. Buchanan Penthouse. 4 p.m.

Research Centre Seminar.
Intracellular Calcium Regulation in Controls and Cystic Fibrosis Patients. Prof. Sidney Katz, Pharmaceutical Sciences, UBC. Room 202, Research Centre, 950 West 28th. 4 p.m.

CAIS Seminar.
Artificial Intelligence and Remote Sensing. R. J. Woodham, UBC Laboratory for Computational Vision. Conference Room, Sedgewick Library. 7:30 p.m.

WEDNESDAY, FEB. 11

Pharmacology and Therapeutics Seminar.
Correlative Probes for Potassium. Allen Bain. Room 317, Basic Medical Sciences Building. Block C. 12 noon.

Reading.
Canadian poet and fiction writer Janice Kulyk Keefer, winner of the CBC Radio Literary Competition, author of the short story collection The Paris-Napoli Express and the volume of poems White of the Lesser Angels. Sponsored by the English Department. Buchanan Penthouse. 12:30 p.m.

Forestry Seminar.
Two Canadians' Views of Forestry in China. Professors John McLean and Oscar Sziklai, Forest Sciences, UBC. Room 166, MacMillan Building. 12:30 p.m.

Safety Awareness Week Seminar.
Overview: The Role of the W.C.B. David Haig, Workers' Compensation Board. IRC 4. 12:30 p.m.

Spotlight On Safety.
Exhibits of safety products, methods and special concerns will be on display all day. IRC lobby.

Geography Colloquium.
The North Pacific and Its Role in Climate. Gordon McBean, Geography, UBC and Senior Scientist, Canada Climate Centre. Room 201, Geography Building. 3:30 p.m.

Applied Mathematics Seminar.
Numerical Modelling of the Northeast Pacific. Dr. William Hsieh, Oceanography, UBC. Room 229, Mathematics Building. 3:45 p.m.

Animal Resource Ecology Seminar.
Social Control of Sex Change and What It Means to a Hermaphrodite. Dr. Douglas Shapiro, Marine Sciences, University of Puerto Rico. Room 2449, Biological Science Building. 4:30 p.m.

Cinema 16.
The Magician. $2.00 plus a one-time membership fee of $1.00. For more information call, 228-3697. SUB Auditorium. 7 p.m.

THURSDAY, FEB. 12

School of Social Work Continuing Education and Centre for Continuing Education Open Forum.
Questioning the Policy Makers. Dr. Glenn Drover, Director of Research and Senior Policy Advisor, Parliamentary Committee on Child Care. For further information call, 228-2576. Lecture Hall A, School of Social Work. 12:30 p.m.

Pacific Geoscience Centre Seminar.
Large-Scale Counterclockwise Rotation of Western Alaska, Indicated by Paleomagnetic Data. Dr. Brian Globerman, Pacific Geoscience Centre, Sydney, B.C. Room 330A, Geological Sciences Building. 12:30 p.m.

Safety Awareness Week Seminar.
V.D.T.'S in the Workplace. Pat Thomas and Pat Byrne, Workers' Compensation Board. IRC 3. 12:30 p.m.

Spotlight On Safety.
Exhibits of safety products, methods and special concerns will be on display all day. IRC Lobby.

English Colloquium.
Feminist Perspectives on Phyllis Webb and Daphne Marlott: Journal of a Bourgeois, Mainstream Critic. Dr. Laurie Ricon, English, UBC. Buchanan Penthouse. 3:30 p.m.

Psychology Colloquium.
Physical Disability and Depression: A Longitudinal Analysis. Dr. Jay Turner, Psychiatry, UBC. Room 2510, Kenny Building. 4 p.m.

Asian Research Seminar.
Socio-Economic Change in Southeast India - 1950s to 1980s. Kathleen Gough, Anthropology and Sociology, UBC. For further information call, 228-2746. Room 604, Asian Centre. 4:30 p.m.

Centre for Continuing Education Illustrated Lecture.
Narwhals of Baffin Island. Dr. John Ford, Westcoast Whale Research Foundation. For further information call, 222-5207. IRC 3. 7:30 p.m.

Adventures of the Mind Lecture Series.
The Place of the Humanities in the Education of Man in the Industrial and Technological Age. Dr. William Saywell, President, Simon Fraser University. For further information call, 266-8331. Kerrisdale Community Centre. 7:30 p.m.

FRIDAY, FEB. 13

Grand Rounds.
Approaches to the Radiological Evaluation of Joint Disease in Children. Dr. Andrew Poznanski, Radiology, Northwestern University, Chicago. Room D308. Shaughnessy Hospital. 9 a.m.

Pharmaceutical Sciences Seminar.
Blood Pressure Control in the Conscious Streptozotocin-Diabetic Rat. Dr. Tony Hebden, Pharmaceutical Sciences, UBC. IRC 3. 12:30 p.m.

Medical Genetics Seminar.
What Are Peroxisomes? Dr. D. Applegarth, Biomedical Diseases, Children's Hospital. Parentcraft Room, Grace Hospital, 4490 Oak Street. 1 p.m.

UBC Calendar

Thunderbird Men's and Women's Basketball.
UBC teams host the University of Alberta in Canada West conference action. War Memorial Gymnasium. 6:30 and 8:30 p.m.

SATURDAY, FEB. 14
Thunderbird Women's Gymnastics.
Dual Meet. Osborne Gymnasium. 11 a.m.

Thunderbird Men's and Women's Basketball.
UBC teams host the University of Saskatchewan. War Memorial Gymnasium. 6:30 and 8:30 p.m.

SUNDAY, FEB. 15
Thunderbird Men's and Women's Volleyball.
UBC teams host the University of Victoria. War Memorial Gymnasium. 1:00 and 2:30 p.m.

Music of the Spheres.
The Museum of Anthropology offers a Valentine's treat with Vancouver's Music of the Spheres. The trio will play Early Music selections from the Renaissance to the Baroque on period instruments. Performance free with museum admission. For further information call, 228-5087. Great Hall, Museum of Anthropology. 2:30 p.m.

Stereo Theatre.
Radio play, Green Fees, written by Prof. Bryan Wade, Creative Writing, UBC. C.B.C.-F.M. 7 p.m..

MONDAY, FEB. 16
Science for Peace Lectures.
The Physics of Weapons -- I. Prof. Luis de Sobrino, Physics, UBC. Room A205, Buchanan Building. 12:30 p.m.

Reading.
Creative Writing Drama Reading by John Murrell. His play, Farther West, is currently playing at the Firehall Theatre. Buchanan Penthouse. 12:30 p.m.

Chemistry Seminar.
A Fourier Transform Spectrometer System for Inductively Coupled Plasma-Atomic Emission Spectrometry. Prof. Gary Horlick, Chemistry, University of Alberta. Room 225, Chemistry Building. 2:30 p.m.

Mechanical Engineering Seminar.
The Rate of Decay of Swirl in a Short Cylinder. Ardeshir Riahi, Graduate Student, Mechanical Engineering, UBC. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Applied Mathematics Seminar.
Solving Boundary Value Problems via Riccardi's Transformation Method. Dr. Luca Dieci, Computer Science, Simon Fraser University. Room 229, Mathematics Building. 3:45 p.m.

TUESDAY, FEB. 17
Botany Seminar.
Biochemistry, Physiology and Ecology of Selenium in Marine Algae. Neil Price, Botany, UBC. Room 3219, Biological Sciences Building. 12:30 p.m.

Dow Lecture in Analytical Chemistry.
New Developments in Atomic Spectrochemical Measurement Systems. Prof. Gary Horlick, Chemistry, University of Alberta. Room 250, Chemistry Building. 1 p.m.

The Centre for Metallurgical Process Engineering *Distinguished Lecturer Series.*
Initial and Steady State Anodic Film Growth on Molybdenite. Dr. Milton E. Wadsworth, University of Utah. Room 317, Frank Forward Building. 3:30 p.m.

Statistics Workshop Seminar.
Multivariate Bayesian and Ridge Regression (tentative). Wolfgang Polasek, Institut fur Statistik und Informatik, Vienna. Room 102, Ponderosa Annex C. 3:30 p.m.

Oceanography Seminar.
Nonlinearities in Reaction Dynamics and the Marine Geochemistry of Manganese. Dr. E. V. Grill, Oceanography, UBC. For further information call, Dr. William Hsieh 228-2821. Room 1465, Biological Sciences Building. 3:30 p.m.

Anatomy Seminar.
Applications of Electron Microscopy in Biology. Dr. Larry Arsenault, Anatomy, UBC. Room B37, Friedman Building, 2177 Wesbrook Mall. 4 p.m.

WEDNESDAY, FEB. 18
Centre for Policy Studies in Education Seminar.
Social Goals and Economic Constraints: Issues of Accessibility to Canadian Higher Education During the 1980's. Dr. Robert Pike, Sociology, Queen's University. Room 115, Ponderosa Annex H. 12:30 p.m.

Forestry Seminar.
Resource Planning and Conflict Resolution in British Columbia with Specific Reference to the Department of Environment. John H. Dick, Ministry of Environment, Victoria. For further information call, 228-2507. Room 166, MacMillan Building. 12:30 p.m.

Pharmacology and Therapeutics Seminar.
Structure and Functions of GABA Receptors in the Mammalian Nervous System. Igor Spigelman. Room 317, Basic Medical Sciences Building, Block C. 12 noon.

Geography Colloquium.
The Scope and Scale of Homelessness in Canada. Arthur Fallick, Centre for Human Settlements, UBC. Room 201, Geography Building. 3:30 p.m.

Animal Resource Ecology Seminar.
Sexual Selection in Monogamous Birds. Dr. Trevor Price, Biology, University of California at San Diego. Room 2449, Biological Sciences Building. 4:30 p.m.

Asian Studies Lecture.
The Sikhs: Past and Present. Prof. W. Hew McLeod, History, University of Otago, New Zealand. Room 604, Asian Centre. 4:30 p.m.

Cinema 16.
Kerouac. $2.00 plus a one-time membership fee of $1.00. For more information call, 228-3697. SUB Auditorium. 7 p.m.

THURSDAY, FEB. 19
Mid-Term Break.

FRIDAY, FEB. 20
Mid-Term Break.

Pharmaceutical Sciences Seminar.
Gut Signals For Islet Hormone Release; Experimental Manipulation of the Gut-Pancreas Axis. Dr. Ray Pederson, Physiology, UBC. IRC 3. 12:30 p.m.

Medical Genetics Seminar.
Program For Preclinical Determination in the United Kingdom. Dr. David Craufurd, Central Manchester Authority, England. Parentcraft Room, Grace Hospital, 4490 Oak Street. 1 p.m.

Thunderbird Swimming and Diving.
First day of men's and women's Canada West Championships. Aquatic Centre. All day. Finals at 6:30 p.m.

Thunderbird Hockey.
UBC hosts the University of Saskatchewan. Thunderbird Arena. 7:30 p.m.

SATURDAY, FEB. 21
UBC Child Study Centre.
Third in a series of five lectures with the general title Helping Children Learn, sponsored by UBC's Child Study Centre. Speaker is Dr. Marion Ralston, Language Education, UBC. Remaining lectures are scheduled for March 21 and April 25. Information on fees is available from the education faculty's Field Development Office, 228-2013. Child Study Centre, 4055 Blenheim St. 9:30 a.m. - 12:30 p.m.

Thunderbird Swimming and Diving.
Second day of the Canada West Championships. Aquatic Centre. All day. Finals at 5 p.m.

Thunderbird Hockey.
UBC against the University of Saskatchewan. Thunderbird Arena. 7:30 p.m.

NOTICES

Sciences For Peace Lectures.
A series of 11 noon-hour lectures will be held in Room A205 of the Buchanan Building on Mondays at 12:30 p.m.

Badminton Club.
Faculty and Staff Badminton Club meets Tuesdays 8:30 - 10:30 p.m. and Fridays 7:30 - 9:30 p.m. (except Feb. 13 and 20)
in Gymnasium A of the Robert Osborne Sports Centre. Fees $15 till April. New members welcome. For more information, call Bernie 228-4025.

Nitobe Memorial Garden.
The Nitobe Memorial Garden will be closed weekends. Hours will be Monday to Friday, 10 a.m. to 3 p.m. Free admission during winter hours.

Botanical Garden.
The Main Botanical Garden on Stadium Road will be open daily (including weekends) from 10 a.m. to 3 p.m.

Fitness Appraisal.
The School of Physical Education and Recreation, through the new John M. Buchanan Fitness and Research Centre, is administering a comprehensive physical fitness assessment program available to students, faculty, staff and the general public. A complete assessment takes approximately one hour and encompasses the various fitness tests, an interpretation of the results, detailed counselling and an exercise prescription. A fee of $20 for students and $25 for all others is charged. For additional information, please call 228-3996, or inquire at Recreation UBC, War Memorial Gym, Room 203.

Computing Centre Non-credit Courses.
The Computing Centre is offering a series of free non-credit courses during February and March. These courses are intended primarily for members of the university community who plan to use the facilities of the Computing Centre. A complete list of courses is available by calling 228-6611, or you can pick up a schedule from the Computing Centre general office (CSCI 420).

Fine Arts Gallery.
Aspects of Contemporary Canadian Art. From the Collections of the University of Calgary at the Nickle Arts Museum. Fine Arts Gallery, Basement, Main Library Building. Tuesday to Friday, 10 a.m. - 5 p.m. Saturday, noon - 5 p.m. until March 8.

UBC Tennis Lessons.
The Tennis Centre is offering lessons in the tennis bubble, every Wednesday and Friday, or Tuesday and Thursday. The lessons are one hour twice a week for two weeks - novice, intermediate or advanced players. A complete list of courses is available by calling 228-2505, or you can pick up a brochure from the Tennis Centre Office, Osborne Unit 11.

Application for Graduation.
Application for graduation cards have now been mailed to students registered in the graduating year of the following degree programs: B.A., B.F.A., B.Mus., B.Com., Lic.Acct., B.Ed.-Elem., B.Ed.-Sec., B.Ed.-Spec., B.P.E., B.R.E. and B.Sc. All students who expect to graduate this May or November are requested to complete and return both cards to the Registrar's Office (Mrs. Donna Anderson) as soon as possible, but no later than Feb. 16, 1987 for graduation in May and August 15, 1987 for graduation in November. Any student in the graduating year of these programs who has not received cards in the mail should confirm with the Registrar's Office (by phone at 228-4455) that his/her local mailing address is correct.
Students in the graduating year of all remaining degree programs, except Applied Science and Graduate Studies, should obtain their Application for Graduation cards from the Dean's or Director's Office of their Faculty or School. Students on Applied Science, Graduate Studies or diploma programs should obtain their applications from their departments.
Application for Graduation cards are also available in the Office of the Registrar, 2nd Floor, General Services Administration Building.

Please note: Every student who expects to graduate must make application for graduation. Any student who does not apply is ineligible to graduate.

Faculty and Staff Exercise Class.
Mondays, Tuesdays and Thursdays. Instructor: S. R. Brown. For further information call, 228-3996. Gymnasium B East, R. Osborne Building. 12:30 - 1:05 p.m.

Faculty and Staff Hockey.
Ice time has been changed in February for faculty, staff, friends and "oldtimers" hockey to 3:45 - 4:45 p.m. Wednesdays. This is non-contact hockey for those over, or near, 50 years of age. Newcomers are welcome. For further information call, 228-3188. Rink 1, Thunderbird Arena.

Occupational Stress.
The University Occupational Health and Safety Committee Task Force on Occupational Stress is soliciting submissions from faculty and staff on incidences of occupational stress contributing to accidents, illness and increases in absenteeism at the university. *Written submissions should be sent to the* Occupational Health and Safety Office, Room 209, Old Administration Building.

GRANT DEADLINES
MARCH 1987

* Alcoholic Beverage Medical Research Fdn.
  - -Research [1]
* Alumni Association, UBC
  - -Faculty Citation [14]
* Alzheimer's Disease and Related Disorders Assoc.
  - -Allied-Signal Corp.-ADRDA Faculty Scholar Award [15]
  - -Investigator-Initiated Research Grant [15]
* Arthritis Society: Group Grants
  - -Multi-Centre, Facilitation, Development [1, appl.]
* Association of Commonwealth Universities
  - -Administrative Travelling Fellowships [13]
  - -Senior Travelling Fellowship [27]
* *AUCC: National Defence Program*
  - -PDF: Military History [1]
  - -Scholarships: Military and Strategic Studies [1]
* Australian Institute of Nuclear Science and Engineering
  - -AINSE Research Fellowship [28]
* Canadian Institute for International Peace and Security
  - -Research [2]
* Canadian International Development Agency (CIDA)
  - -CIDA Awards Offered to Canadians [27]
* Canadian Veterinary Research Trust Fund
  - -Research Fellowship [20]
* Cancer Research Society Inc.
  - -Fellowships [15]
  - -Research [15]
* Deutscher Akademischer Austauschdienst (DAAD)
  - -Study Visits of Foreign Academics [1]
* European Molecular Biology Organization
  - -EMBO Fellowships [16]
* Fitness and Amateur Sport: Sport Canada
  - -Applied Sport Research [15]
* Guggenheim (Harry Frank) Foundation
  - -Grants for Research [1]
* *Health, Education and Welfare, U.S. Dept. of*
  - -NIH Grants to Foreign Institutions [1]
  - -Small Grants Program [1]
* Kidney Foundation of Canada
  - -Summer Student Fellowship [16]
* International Copper Research Association
  - -Research Contract [15]
* Manning, Ernest C., Awards Foundation
  - -Ernest C. Manning Awards [27]
* MRC: Awards Program
  - -MRC Scholarship [1]
* MRC: Grants Program
  - -Maintenance Grants [1]
  - -Major Equipment [1]
  - -Operating Grants - NEW [1]
* Multiple Sclerosis Society, National U.S.
  - -Junior Faculty Awards [1]
  - -Postdoctoral Fellowships [1]
  - -Research [1]
* National Cancer Institute of Canada
  - -Career Award Appointments [1]
  - -Terry Fox Cancer Research Scientists (ren) [1]
* National Cancer Institute of Canada: Marathon of Hope
  - -Terry Fox Research Fellow. for Physician Scientists [1]
* National Cancer Institute of Canada
  - -Training and Study Awards [1]
* National Huntington's Disease (US)
  - -Postdoctoral Research Fellowships [15]
* NSERC: Vector Computer Facility
  - -Dorval Vector Access [1]
* Royal Bank
  - -Royal Bank Award [28]
* Sigma Delta Epsilon Women in Science, Inc.
  - -Research [1]
* Sigma Xi, The Scientific Research Society
  - -Grants-in-Aid [1]
* Spencer, Chris Foundation
  - -Foundation Grants [28]
* University of British Columbia
  - -UBC-Research Grant (HSS) [27]
  - -UBC: Killam Postdoctoral Fellowships [15]
* University of New Brunswick
  - -Postdoctoral Fellowship [10]
* Weizmann Inst. of Science
  - -Joseph Meyerhoff Fellowship [28]
* Whitehall Foundation, Inc.
  - -Research [1]
* *World Cultural Council*
  - -Albert Einstein World Award of Science [28]

Calendar Deadlines
For events in the period Feb. 22 to March 7, notices must be submitted on proper Calendar forms no later than 4 p.m. on Thursday, Feb. 12 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.

FIRST CLASS MAIL

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