

UBC Reports

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Campus walking tours

UBC's Community Relations Office begins offering free guided walking tours of the campus on Wednesday, May 6.

The tours, led this summer by UBC law student Peig McTague, will be given at 10 a.m., 1 p.m. and 3 p.m. Monday through Friday. Highlights include visits to the Geology Museum, the libraries, the Rose Garden and the Asian Centre, but tours can also be personalized to meet the particular interests of a group.

In addition to attracting tourists to UBC, Community Relations hopes to bring extended care patients and shut-ins to the campus for special tours this summer.

To book a free tour, call the Community Relations Office at 228-3131.

Council designate

Mr. Robert Wyman, UBC Chancellor for the past three years, is UBC designate for the new University Advisory Council, which replaces the Universities Council of B.C.

The new council will provide advice to the Minister of Advanced Education and Job Training, Stanley Hagen, on major issues affecting universities in British Columbia.

"I am very pleased that Mr. Wyman has agreed to do this on behalf of UBC and the universities of British Columbia," president Strangway said. "He has served us well as chancellor and has a very deep commitment to UBC."

In addition to Mr. Wyman, other appointees to the council are: Mrs. Redina Hamilton, chairman, lawyer and former member of the Universities Council; Dr. Alfred Fischer, professor and former vice president, academic, University of Victoria; Dr. George Ivany, vice president, academic, Simon Fraser University; Mrs. Betty Meagher, former member of the board of Fraser Valley College; Dr. Glen Farrell, president, Knowledge Network; Ms. Melissa Clark, UBC student; Mr. George Morfitt, former chairman, Universities Council; and Mrs. Ethne Cullen, Victoria businesswoman and university lecturer.

Research forest opens

The Hon. Alex Fraser will be among representatives from government, the forest industry and UBC who will take part in the official opening of the UBC-Alex Fraser Research Forest in Williams Lake today (April 30).

The 8,900-hectare research forest has been established as a research, education and demonstration site to study the integrated resource management of Interior forests. The research forest is a cooperative effort between the provincial government, UBC, and groups such as the the Cariboo Lumber Manufacturers' Association, the B.C. Forestry Association, the Cariboo Regional District and the Canadian Institute of Forestry.

Director of the facility is Prof. Donald Munro of UBC's Faculty of Forestry, who also heads the UBC Research Forest in Maple Ridge. The day-to-day operations of the Williams Lake facility will be handled by Resident Forester Ken Day.

UBC Forestry Dean Robert Kennedy says the new research forest meets a need in the province for hands-on research on Interior forests.

Visit cancer centre

On May 9, for one day only, scientists and staff of the B.C. Cancer Research Centre invite everyone to visit during Open House. Between 10 a.m. and 5 p.m. visitors can take a first-hand look at some of the latest advances in cancer research and treatment.

Some of the most sophisticated equipment available for cancer research will be on display and visitors will have an opportunity to learn about the latest research in areas such as: hereditary aspects of cancer, treatment planning with artificial intelligence machines, occupational risk factors which may lead to cancer, and treatment of deep-seated tumours using the TRIUMF particle accelerator.

Operated and maintained by the B.C. Cancer Foundation, the B.C. Cancer Research Centre is affiliated with UBC and the Cancer Control Agency of B.C. Many of its 40 research scientists and 130 support staff, including students, post-doctoral fellows and technicians, are associated with UBC's Faculty of Medicine.

The B.C. Cancer Research Centre is located at 601 West 10th. Avenue. Free parking is available across the street.

Fire hall hosts tours

The University Endowment Lands Fire Department, located at 2992 Westbrook Mall, is offering tours for the public May 11-24.

If your group would like to take a tour or attend a practise in the Fire Safety House Escape, call Deputy Chief W.B Davidson at 224-5415. Advance notice is required.



The committee organizing a Malcolm Lowry symposium to be held at UBC May 10 to 13 is shown in the reading room of the Special Collections library looking over foreign editions of the Canadian author's works. Left to right are: Diana Brydon and Hilda Thomas, English Department; George Brandak, Special Collections; graduate student Kathleen Scherf; Bill New and Sherrill Grace, English Department and Anne Yandle, head, Special Collections.

English Department plans Malcolm Lowry Symposium

Participants from all over the world will be attending the first International Symposium on Canadian writer Malcolm Lowry May 10-13 at UBC.

Bound to be an exciting literary occasion, "New Perspectives on Malcolm Lowry" will see 34 speakers and special guests present papers and conduct workshops. Canadian poet and novelist Robert Kroetsch will give the keynote address. A North American premiere of British composer Graham Collier's Lowry-inspired jazz, films on Lowry and two publisher's receptions will be offered. The three-day event will conclude with a guided bus tour to the North Shore, where a Lowry Memorial will be unveiled in Cates Park. Lowry lived in Dollarton from 1940 to 1954.

Lowry's international appeal is evident in the fact that speakers are coming from England, Scotland, Belgium, Germany, France, Italy, Spain, New Zealand, Australia, Japan, Mexico, the U.S. and across Canada.

Malcolm Lowry attracts two distinct groups of admirers, according to Dr. Sherrill Grace of UBC's English department. Dr. Grace is the author of *The Voyage That Never Ends: Malcolm Lowry's Fiction*, which was published in 1982 by the UBC Press. She is also a member of the committee organizing the symposium.

"First, his appeal is literary," she says. "*Under the Volcano* is a literary masterpiece. It is a work of the same stature as the works of James Joyce." The book attracts a very wide literary audience, and cannot be overlooked by scholars who are interested in 20th century literature.

"Second, there is the personality of the man," says Dr. Grace. "He has had a cult attraction." People interested in mysticism and the occult have been drawn to him through his writing.

Dr. Grace adds that there is a third group of admirers, this one composed of writers. "His prose style was exceedingly fine, as was his use of language: he thought of himself as a poet." He has influenced many writers, including Robert Kroetsch and the American writer David Markson, who did the first graduate thesis on Lowry, wrote a book about him, and will participate in a Symposium panel called "Lowry -- The Biographical Perspective."

UBC is the ideal location for a Lowry symposium because of the massive Lowry archive in Special Collections which is regularly visited by scholars from all over the world.

The workshops and panel discussions scheduled during the symposium include "Lowry: The Man," "*Volcano* and the Creative Process," "*Volcano*: Sources and Themes," "Lowry and Contemporary Critical Theory," "*Volcano* and the Politics of

Form," "Translating the *Volcano*: A Panel," "The Lowryan Muse," "Beyond the *Volcano*" and the closing panel and plenary session, "Present Estate of the Strangely Comfortable Profession."

Members of the public are welcome to attend. The registration fee is \$80, \$15 for students and seniors.

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Community Relations garners gold medal for radio series

UBC's Community Relations Office has received a Gold Medal from the Council for Advancement and Support of Education for a 13-part radio mini-documentary series produced last fall.

The series, entitled *UBC Perspectives*, beat out 46 other entries in the radio programming category of the international competition. The programs were produced by Lorie Chortyk of the Community Relations Office and written by Vancouver director and writer John Wright.

The council, an international organization of 2,800 members based in Washington, D.C., described the UBC series as "outstanding in quality and content".

Community Relations produced the series as a means of promoting exciting research being carried out by UBC faculty members. Each program is three minutes in length and features an interview with a UBC faculty member, with opening and closing narration by Dr. David Suzuki.

The award-winning series was distributed to 256 radio stations across Canada in January by Broadcast News in Toronto. Faculty members highlighted in the programs were Prof. Michael Beddoes (Electrical Engineering) on talking computers for the blind; Prof. Barry McBride (Microbiology) on dentistry of the future; Prof. Rudy Haering (Physics) on the invention of the Moli Battery; Prof. Beryl March (Animal Science) on B.C.'s aquaculture industry; Dr. Jim McEwan (Biomedical Engineering and Electrical Engineering) on robots in surgery; Prof. Peter Larkin, UBC's vice-president for research, on

see Radio Page Six

Senate--It's 'worth making it work' says senator

by Jo Moss

In 1985 the Senate recommended to the Board of Governors that the University discontinue a number of programs to meet the budget shortfall.

"It was the first university body in Canada, to my knowledge, to recommend such an extreme measure, and it was certainly the most significant action that Senate has taken in my time. It was also a most regrettable, reluctant, and stressful experience for all involved," says John Dennison, long-time senator and professor in Administration and Adult Higher Education.

Nine programs were discontinued as a result of the action.

"There's a certain cynicism and criticism of the Senate, some say that it doesn't address the major issues of the university," Dr. Dennison said. "But that was a major issue, and Senate, after having explored all other possibilities, made a final recommendation with extreme regret to the Board of Governors, which the board accepted."

UBC's Senate shares with the Board of

Governors the government of the university. Established by the Universities Act in 1890, it handles all academic business relating to curriculum, instruction and education, such things as the establishment of scholarships prizes, any faculty department, chair or course of instruction.

The Board is responsible for financial matters. However, since university business often falls into both categories a recommendation by one body must often be approved by the other. Amendments to the University Act over the years have made the membership separate with only the university president and the chancellor serving ex-officio on both Board and Senate. The president serves as chairman of the Senate.

Senate has 87 members and because of its size, much of the work is carried out by 13 standing committees, of which the budget committee and the curriculum committee are probably two of the busiest. "Senate is obliged to establish these committees," Dr. Dennison said. "But it is unusual for Senate not to approve a committee's

recommendations."

When there is no standing committee to take care of business arising in Senate, and the matter at hand needs to be investigated thoroughly, an ad hoc committee is formed. One such committee is currently looking at the policy of granting emeritus status to non-academic members of the university community.

"Senate is often criticized by some people for being too large, too unwieldy, and too aloof," Dr. Dennison says. "Others, myself included, believe it's worth making Senate work because it has the potential to influence the academic quality of the university. Senate is not simply an advisory body--it does have some statutory power.

"Much of Senate's problems are with its structure, it is a problem to function efficiently and effectively in a large group and it is difficult to engage in intimate debate. But to reduce the size of Senate probably would result in a reduction of the number of constituencies represented. It would be unpopular to exclude some of these interested groups."

Senate has both elected and appointed membership, the deans of faculties are there by the nature of their position, while faculty representatives are elected; 17 students also serve on Senate, the result of amendments to the University Act in 1974. Despite being elected by constituency, senators are expected to represent the interest of the university at large, rather than their particular group.

"I think all faculty members should serve on Senate at least once in their careers," says Dr. Dennison. "It's important to know how complex organizations such as the universities work, and Senate can provide some useful insights. Decision making doesn't rest entirely on how the rules are written down, but how persuasive the advocates are.

"Some think that Senate is boring, and it is true that much of Senate business is very routine. But there have been some spirited debates, particularly when strong personalities become staunch advocates of certain positions. It's exciting, and worth hearing."

Impressive number of editors on UBC campus

The response to a recent UBC Reports item ('Update on editors'), which asked UBC faculty who edit professional journals to step forward and be recognized, was overwhelming. Some fifty editors representing almost every field of study contacted the Community Relations Office. Many edit several publications concurrently.

Sociology professor Dr. Robert Ratner, for example, is associate editor of the Canadian Review of Sociology and Anthropology, a member of the editorial executive of a new publication The Journal of Human Justice and faculty advisor for Canadian Criminology Forum, published by UBC graduate students and faculty.

In Psychology, Dr. Kenneth Craig edits the Canadian Journal of Behavioural Science, and Dr. James Steiger is editor of Multivariate Behavioral Research, a quarterly publication devoted to the application of statistical methods in behavior research. Dr. Larry Cochran, Counselling Psychology, is consulting editor for The Canadian Journal of Counselling and on the editorial board of the International Journal of Personal Construct Psychology.

Seminar: A Journal of Germanic Studies publishes articles in English, French and German on any aspect of German literature since the Middle Ages. Germanic Studies professor Dr. Patrick O'Neill, has been editor for two years.

Dr. Glen Dixon of the UBC Child Study Centre has recently been appointed editor of Canadian Children, the only Canadian journal which focuses on the education and care of young children. And, in a submission titled "Editors in Hiding", Dr. Roger Boshier revealed his editorship of Convergence, the journal of the International Council of Adult Education which publishes material on development education.

Director of the Centre for Continuing Education Jindra Kulich has edited Lifelong Learning: An Omnibus of Practice and Research for 11 years and is on the editorial board of a new publication The Canadian Journal for the Study of Adult Education/Le journal canadien pour les études de l'éducation des adultes.

Dr. Peter Nemetz, commerce professor, is the editor of the Journal of Business Administration, published by UBC's Faculty of Commerce and sent to subscribers in 36 countries world-wide. Dr. Dr. G.F. Schrack, Electrical Engineering, currently edits two computer journals: Computing Reviews, for which he is category editor on computer graphics; and Computer Graphics Forum, the official journal of the European Association for Computer Graphics.

The official quarterly of the Association of Canadian Faculties of Dentistry, Forum, is edited by dentistry professor Dr. Amil Shah; and director of Audiology and Speech Sciences, Dr. John Gilbert, is associate editor for Brain and Language and Clinical Linguistics and Phonetics, journals for which he reviews about 3 manuscript submission each month. Dean of Pharmacy Dr. John McNeill acts as co-editor of the international Journal of Pharmacological Methods, a publication devoted to new methods in pharmacology. Dr. Indrajit Desai, Family and Nutritional Sciences professor, has recently been invited to serve as

contributing editor of Nutrition Reviews, a journal published by the International Life Sciences Institute and Nutrition Foundation based in Washington, D.C.

In other areas of science, the botany department submitted a list of eight faculty who act as associate or assistant editors for learned journals--the greatest number of editors from any one department. Dr. Anthony Glass edits Plant Physiology; Dr. Gilbert Hughes Mycologia; Dr. Robert Turkington Canadian Journal of Botany; Dr. Iain Taylor Canadian Journal of Botany; Dr. Anthony Griffiths Canadian Journal of Genetics and Cytology; Dr. Walter Schofield Journal of the Hattori Botanical Laboratory; Dr. Neil Towers Phytochemistry, Journal of Ethnopharmacology, Journal of Plant Physiology; and Dr. Max Taylor Symbiosis, Journal of Endocytobiology and Cell Biology, Journal of Biological Sciences.

UBC's microbiology department boasts five editors. Dr. Richard Warren is section editor for the Canadian Journal of Microbiology, Dr. Robert Hancock edits Infection and Immunity, Dr. Barry McBride edits Canadian Journal of Microbiology, and Oral Microbiology and Immunology; and Dr. Hung-Sia Teh is Ad Hoc Reviewer for the Journal of Immunology Letters.

Medical Genetics professor Dr. Diana Juriloff is one of 27 associate editors of The Journal of Experimental Zoology. In Forestry, Dr. Douglas Golding and Dean Robert Kennedy are among 18 associate editors of the Canadian Journal of Forest Research, Dr. Kennedy also edits the German publication Wood Science and Technology, and International Association of Wood Anatomists Bulletin published in the Netherlands. Three faculty members are among the 20 associate editors of the Forestry Chronicle, the official journal of the Canadian Institute of Forestry: Dr. David Haley, Dr. Fred Bunnell, and Dr. Peter Murtha.

Dean Emeritus of the Faculty of Science Dr. George Volkoff has been editor of Soviet Physics - Uspekhi published by the American Institute of Physics in Woodbury, N.Y. The publication is a cover-to-cover translation of one of the leading physics journals in the U.S.S.R. Uspekhi Fizicheskikh Nauk, and is a monthly review journal with articles covering a range of topics in experimental and theoretical physics.

The entire editorial staff of the Canadian Journal of Chemical Engineering is at UBC, Dr. Norman Epstein is editor and Drs. Paul Watkinson and Kenneth Pinder are associate editors--the publishing staff is located in Ottawa. Other editors in chemical engineering include Dr. John Grace who is Canadian editor for the international journal Chemical Engineering Science and Dr. Richard Kerekes, director of the Pulp and Paper Centre is associate editor of Pulp and Paper Science.

Coal Preparation, a multinational journal is edited by Dr. Janusz Laskowski, mining and mineral process engineering. His colleague Mr. Chuck Brawner edits Mining Science & Technology a publication which covers aspects of mining such as exploration, mine safety and environmental control.

Chemistry professor Dr. Robert Perkins has edited College Chemistry Canada, a publication serving community college

chemistry teachers across the country, for three years. Also in chemistry, Charles McDowell is on the editorial board of The Chemical Physics Letters, Journal of Molecular Structure, Canadian Journal of Spectroscopy. He has recently been appointed to the editorial board of a new series of books called Topics in Molecular Organization and Engineering to be published in the Netherlands.

Students in the faculty of Law edit the UBC Law Review, a bi-annual journal which began in 1949 as Legal Notes. Law professor Albert McClean currently edits the Canadian Bar Review and colleagues Prof. Donald MacDougall and Prof. Charles Bourne edit the Canadian Journal of Family Law and the Canadian Yearbook of International Law

respectively.

Sessional lecturer in the English department, Alison MacBean is editor of Discovery a quarterly published by the Vancouver Natural History Society. And last, but certainly not least, in the area of sports, Dr. Robert Schutz is section editor of a publication he describes as "the most widely circulated research journal in the area of physical education", the U.S. based Research Quarterly for Exercise and Sport.

Editor's Note: We are impressed! The number of editors on campus exceeded our expectations. Thanks for your response to this final listing.



Pouring over the Malcolm Lowry papers in UBC's Special Collections are Dr. Sherrill Grace of the English Department and student Kathleen Scherf who is doing her doctoral thesis on Lowry.

Health today— issues and experts

AIDS— The disease is preventable

by Jo Moss

Contrary to what you may be hearing about AIDS, there are only two ways for adults to contract the virus and both of them are preventable.

That's the word from Dr. Martin Schechter, assistant professor in Health Care and Epidemiology and principal investigator of the Vancouver Lymphadenopathy-AIDS study at UBC. He is also on the National Advisory Committee on AIDS.

"There's effectively only two ways an adult can get AIDS," Dr. Schechter says. "One is by sexual intercourse, anal or vaginal, between males and females, or males and males. The second way is by sharing contaminated needles and that is much less of a problem in Canada than it is in the U.S."

"People don't 'catch' AIDS the way they catch flu or a cold, they have to go out and 'find' it. That's the irony of AIDS, it's not like cancer, if everyone listens to the guidelines the disease is 100 per cent preventable."

Myths and misconceptions still persist however, one of the most recent being that condoms are not effective in preventing transmission of the virus. "If a condom is used properly it should be effective. Lab studies show that the virus doesn't pass through a standard latex condom," Dr. Schechter says.

And what about the possibility of breakage? "There is a slight possibility, but it's very small," Dr. Schechter says. "Protection is enhanced by the use of spermicides such as nonoxonyl-9 which kills the HIV virus."

One of the more prevalent—and dangerous—myths is that heterosexuals are not at risk.

"The risk of acquiring the AIDS virus is lower in heterosexuals, but the myth that there is no risk at all is wrong," Dr. Schechter says.

Researchers working on the AIDS study still get calls from the public asking if AIDS is transmissible by casual contact, from

restaurant waiters and food handlers for example. According to Dr. Schechter, all studies have demonstrated that transmission

does not occur in this way.

With public information programs still in the early stages, school programs have difficulty getting off the ground because of the common belief that sex education in schools will promote promiscuity.

"That's a fallacy," says Dr. Schechter, "there's overwhelming research which says that sex education does not increase promiscuity."

He says a lot more needs to be done to give people the facts about AIDS. "Funding is slow for education programs and many of the formal programs are not yet underway. People are being educated through the media and the distribution of pamphlets by health centres."

Transmission of the virus through blood products is no longer a risk. All blood is now tested for antibodies to the AIDS virus with a virtually foolproof method.

"There is an extremely small chance that a unit of blood may have been donated before the antibody had developed, but that chance is small, it is comparable to the chance of being struck by lightning," Dr. Schechter says.

And if you were wondering what your chances were of being infected with the AIDS virus, Dr. Schechter has some optimistic statistics. "The chances of a person not in a high risk group carrying the AIDS virus is very slim," Dr. Schechter says. "But if that person continues to have casual or multiple sexual partners those odds increase."

There are two basic guidelines for people who are concerned about contracting AIDS.

"If someone is going to have sexual intercourse with another person who might conceivably have the AIDS virus, that person should protect themselves; they should use a condom," Dr. Schechter says. "If a person can remove themselves from that situation altogether—that's even better."



Dr. Martin Schechter, AIDS expert, says there are only two ways an adult can get the virus. Protection is vital.

Breast cancer research aimed at individual

by Jerri Lee

Breast cancer, a leading cause of death for women, is different in each patient, which is why Dr. Joanne Emerman's research is focused on individualizing treatment.

"One of the major problems," says Dr. Emerman, a UBC professor of anatomy, "is that each breast cancer is unique and we cannot predict with confidence the most appropriate form of treatment for the individual."

Dr. Emerman's research is based on laboratory tests of the patient's cancer cells. A collagen gel culture is used to grow the cells in a method first established in the Emerman laboratory and now widely used throughout the world. The cells are then exposed to hormone or chemotherapies.

"This permits a rapid assessment of the potential benefit of these agents and leads to a rational selection of treatment."

To more accurately imitate conditions in the patient's body Dr. Emerman introduced a major improvement over previous studies by culturing the cancer cells in the patient's serum. Her research has shown that cells behave differently in the presence of human serum.

"To test the validity of the system, we must make clinical correlations. We are currently correlating our data with clinicians at the Cancer Control Agency."

She said that in a good number of the cases there is a positive correlation between the response in culture and the response of the patient in therapy. But it will probably be another year before a significant number of correlations are made.

"If a positive correlation can be shown, we can use this system to identify the appropriate treatment for the individual. If the test showed that a patient's cancer was resistant to a particular type of chemotherapy, for example, it would save them needless suffering," she said.

Dr. Emerman says the cure rate for hormone and chemotherapy is very low, so she and research assistant Darcy Wilkinson are

using the cell culture assay to identify alternative types of therapy that centre on modifying tumor behaviour. For example, the behaviour of tumor cells in culture can be modified with Vitamin A.

"If we can identify factors that modify tumor behaviour, we can treat the cancer patient by stopping the cells from dividing rather than concentrating on cell kill," she said.

Dr. Emerman's research is funded by the National Cancer Institute, the research arm of the Canadian Cancer Society.



Dr. Joanne Emerman whose research is centred on individualizing treatment for breast cancer.

For patients

UBC cancer videos

After two bouts with throat cancer, what Bob Quintrell remembers most is how difficult it was to get information on the disease. What were his chances of surviving? What exactly is cancer? What forms of therapy was he facing and what side-effects would they have?

Now, with his cancer fully stopped by surgery and radiation therapy, he and the staff at UBC's Biomedical Communications Department are producing a series of video programs for cancer patients that answer the very questions he had when he was first diagnosed three years ago.

"When we looked at the situation closely, we found there were hundreds of programs telling you how not to get cancer," says Biomedical Communications director Ian Cameron. "But there were no programs available that were directed specifically at the person who had cancer."

"What these programs are attempting to do is to make the patient better informed."

Working closely together, Cameron, associate director Quintrell, who is former host of CBC television shows *The Seven O'Clock Show* and *Hourglass*, and Dr. Kevin Murphy, a cancer specialist at St. Paul's Hospital, have planned 12 half-hour programs on the different forms of cancer, their treatments and the options for the patient. Topics such as leukemia, bone marrow transplants, lung cancer and cancer of the colon will be covered.

The first program, completed last November, is a general overview of cancer that is meant to be seen in conjunction with the others. It was produced, directed and narrated by Quintrell with funding from ICI Pharma Ltd., a pharmaceutical company, which also distributes the videotape free to any individual or group.

Already, 900 copies have been distributed across Canada and the U.S. and feedback from cancer care professionals has been enthusiastic. Copies of the tape are available from the Biomedical Communications Dept. at 228-3467.

The next four programs soon to be released are on breast cancer. Originally, only

one program was planned on the topic, but Cameron says there is so much involved in the treatment of breast cancer that they stretched it to four parts: the initial discovery of the disease, post-surgery recovery, the patient's options if the cancer reappears and breast reconstruction.

The production crew interviewed 25 women in various stages of breast cancer for the programs. Again, funding will come from ICI Pharma.

Biomedical Communications has won two bronze medals in international film festivals in Switzerland and Denmark for two segments from a similar series on epilepsy.

Public health meeting here May 8 and 9

A number of important public health issues will be discussed at the B.C. Public Health Association annual general meeting, May 8 and 9 at the Instructional Resource Centre, UBC. For information about registration call Veronica Oxtoby at 228-2772.

Dr. Sam Sheps will chair the program which will include: Dr. R. G. Mathias speaking on the measles outbreak; health promotion consultant Sharon Martin of the Vancouver Health Department who will speak on health education as a vehicle of community development; Geoff Rowlands, Vancouver Health Department will speak on Vancouver's progressive smoking regulations and Shirley Thompson, B.C. Lung Association, who will speak on smoking in the workplace.

Leslie Wagman of AIDS Vancouver will speak on sex education in schools and Dr. Mike Rekart, B.C. AIDS Clinic, will present an AIDS update.

A special presentation on health care in Nicaragua will be offered by nurse Diana Lilly of the Pine Street Clinic.

Family medical history a key health factor

by Jerri Lee

A family medical history can be a priceless gift, according to Dr. Judith Hall, a professor of medical genetics at UBC and director of the Clinical Genetics Unit at Grace Hospital.

"We try to help people understand how important it is for them to know the medical history of their family. They know they are of German or French ancestry, that grandad was a ship's captain, but frequently they do not know what their grandparents or even their parents died of. Yet, practically speaking, they are likely to die from the same thing," says Dr. Hall.

She says knowing early enough that you are predisposed to a disease can help to decrease complications. And decreasing complications can reduce health costs. Studies show this approach can make a major impact on the individual.

"It seems to me that grandparents have a moral responsibility to inform the family about disorders which have occurred in the family and which family members may be at risk to develop. If people know their family medical history, they may be able to modify their lifestyle at an early age which will be very much to their own benefit."

She said a family doctor often can tell a patient what to do to keep healthy and avoid a disease to which they are predisposed.

Thousands of diseases and disorders, like heart disease, strokes and some cancers, run in families. It is important to ask questions not only of family members but of the physicians who cared for them, she said.

"Why did your father have a stroke? Talk to your father's doctor. Were there high lipids or fat in the blood? High cholesterol runs in families but there is a lot you can do if you have that predisposition. It may take 20 years to accumulate the fat in the lining of blood vessels which lead to strokes, but if you are forewarned you can modify your diet. If high blood pressure was the factor leading to a stroke in your family, you can have your blood pressure monitored regularly, go on a low salt diet, receive medication and other treatment if required."



Geneticist Dr. Judith Hall says there are thousands of diseases which have a genetic factor.

Dr. Hall stresses the importance of an autopsy.

"The more carefully we question the cause of death, the more aware we can become of our own and our children's risks.

"We are moving into an era where people talk about things which used to be family

secrets and not discussed. Today, families need to talk about whether they want their organs to be used for transplantation. If they want to donate organs they might as well have an autopsy which may help the whole family know if there are familial conditions which can be prevented or treated."

The medical genetics clinic provides counselling to families who are predisposed to congenital anomalies and other familial disorders. Dr. Hall specializes in dwarfism as well as working with the parents of children born with spina bifida (open spine) and babies with arthrogryposis--stiff joints.

Neurologist surveys musicians' ailments

Writer's cramp and slot machine tendonitis--two common ailments resulting from a series of repetitive actions that most people have heard of. But who is familiar with pianists' cramp, horn player's palsy or bassoonists back?

Musicians fall prey to a gamut of problems by the nature of their profession. Whether they're in a symphony orchestra or rock band, play a clavichord or kazoo, they subject parts of their body to exacting, patterned movements that can take their toll in a variety of ways.

Neurologist and clinical fellow, Dr. Robin Fross, is surveying Vancouver musicians to determine the kinds of injuries they encounter. By distributing questionnaires to groups such as the Vancouver Symphony Orchestra and the UBC School of Music, and making them available to musicians through music stores and recording studios, Dr. Fross hopes to find out if, for example, certain musical techniques cause a specific problem, and whether one kind of musician has more problems than another.

"It's a difficult survey to carry out because musicians are naturally reticent to admit they have problems," Dr. Fross says. "They are afraid if someone finds out they will lose their job. Some don't seek help because they have minor injuries which come and go, but a small injury can develop into a larger one if it goes untreated."

Previous studies of musicians have dealt with large groups such as an orchestra because that group is readily accessible. "But what about rock musicians, singers, and jazz bands?" Dr. Fross says. "They also can develop injuries from their playing."

Musicians' health problems are a relatively new focus of medical treatment, says Dr. Fross. And despite the fact that preliminary studies indicate more than half of the active musicians will have an injury that hampers their play at some point in their career, the medical community has largely ignored the

specialized nature of the ailment.

"Musicians have to be treated in a different way," Dr. Fross says. "They are often told the problem is all in their head, or that they must stop playing. But for many musicians their music is their livelihood, it's not as simple as telling them to switch careers."

Dr. Fross says musicians have much in common with athletes.

"Because their injuries are caused by the rigors of striving for high performance, musicians should receive the same care as professional athletes," Dr. Fross says. "Not only should they have access to specialized treatment which treats their health problems in a serious and knowledgeable way, but physicians need to better understand this branch of medicine, make more accurate diagnoses and devise preventative measures."

Outdoor rentals on campus

Now that summer's here, the campus community will be taking time out for recreation. And Rec UBC has expanded its equipment rental department to accommodate students and others interested in the great outdoors.

Members of the community at large are also welcome to use Rec UBC services which includes rentals of tents, backpacks, stoves, boots, rain gear, kayaks, mountain bikes and more. More information is available by calling 228-3515 or 228-3996.

The shop, located in the basement dispensary of the War Memorial Gym, will be open beginning May 1 everyday except Sunday from 7:30 a.m. to 3:30 p.m. Equipment prices and brochures are available in the shop or at Room 203, War Memorial Gym.

Phys Ed graduates

Recent graduates from UBC's physical education and recreation program are enjoying a wider variety of career opportunities after graduation than did their earlier colleagues.

"The fitness and leisure services market has changed dramatically in the last 10 years--it's broadened tremendously," says school director Dr. Robert Morford.

According to Dr. Morford only about 40 per cent of current graduates go on to fill teaching positions, the most common career choice for former grads, the rest use their degree to pursue careers in such areas as community recreation, government, and research oriented work in Canada and the United States.

"Our graduates now have an entrepreneurial nature and use their degrees to work in a greater variety of environments than before," Dr. Morford said.

A change in the focus of the school of physical education and recreation programs over the last few years has kept pace with the change in the sports market, and is the key to

producing these versatile students.

"We've moved away from the performance aspect to one that is knowledge based, an area in which we're becoming better recognized," says Dr. Morford. "There was little sports research done in the school until six or seven years ago; now different areas have emerged as specialities and faculty are teaching courses relating to their areas of expertise."

"The study of human physical performance, sports and leisure is sometimes not treated seriously in academic circles," says Dr. Morford. "People think that because fitness has to do with the body it's less important. But fitness is an aspect of human behaviour and research in this area does contribute academically to a better understanding of man."

The University's growing reputation in sports related research has led to a number of national and regional teams to seek out their expertise.

High-tech look at coaches

Sports coaches--how effective are they? Physical Education professor Dr. Ian Franks would like to find out and he's applying computer technology to get some answers.

In a recently completed pilot project, Dr. Franks recorded every comment made by a volleyball coach during a coaching practice. More than 300 verbal comments were noted in just one hour as well as such features as whether the comments were positive or negative, whether they addressed skills or effort, and what was the volume of delivery.

"The results will be used by the Coaching Association of Canada in their residential clinics to modify coaching behaviour," said Dr. Franks.

Computerized coaching analysis developed from Dr. Franks' research into the factors which make a team successful. It also involves applying computer technology to record the moves of the players.

"We take a soccer match, for example, and

record each piece of information about the game, sequentially. Any and every significant aspect of the match is then on a database for recall," Dr. Franks says. A coach can then ask the computer for a specific analysis of the team's performance such as how long they were in the attacking zone or what the successful moves were that led to a goal.

So far 1,000 top-calibre soccer matches have been recorded in this way, all at the national or international level, and the technique has been applied to other sports including fencing, wrestling and water polo. Not only will the computer provide specific information about team performance it will also display it on a monitor screen.

Dr. Franks is currently working with several national teams, developing probability models--an ideal sequence of events leading to a successful performance--to incorporate in coaching and training.

Moderation suggested by caffeine study

By Lorie Chortyk

If you're one of those people who hates the world before you've had your morning coffee, there's good news from UBC's Food Science Department.

Dr. David Kitts says the dangers of caffeine may have been greatly exaggerated in earlier scientific reports.

"The concentration of caffeine used in some of the earlier studies was incredibly high," says Dr. Kitts. "Blood levels from these caffeine intakes are unlikely to be found in humans."

Dr. Kitts and his colleagues began redoing earlier experiments with lower, more realistic, caffeine intake levels.

"We wanted to determine whether the negative effects that had shown up previously were a direct cause of the caffeine or were a result of the unnaturally high concentrations used in former experiments."

Dr. Kitts carried out experiments using caffeine levels equivalent to the consumption of three cups of coffee a day.

"Our results suggest that the long-term effect of caffeine on the body is minimal with moderate intake levels. These same results are showing up in similar studies being carried out across North America and Europe."

He points out, however, that caffeine affects people differently depending on factors such as age and diet.

"Higher caffeine levels can be found in children and older people, in smokers, and in people who are on medication," says Dr. Kitts. "Blood levels of caffeine can also be higher in people who have a low protein intake. Despite the accessibility of nutritious foods in North America, there is still a significant number of people who are below the average daily requirement for protein intake."

Dr. Kitts and his colleagues are involved in several on-going studies on the effects of caffeine, including research on caffeine and cholesterol levels, and the effect on caffeine on embryos and fetuses.



Dr. David Kitts, left, and Food Science graduate student Joe Kanhai with a variety of caffeine sources. Their research shows caffeine effects can be influenced by other factors.

UBC Photo Warren Schmidt

Injured teens concerned over changed appearance

by Lorie Chortyk

Teenagers and young adults with spinal cord injuries need to feel better about their bodies before they can successfully get on with their lives.

That's one of the ideas that has emerged from a study carried out by Marilyn Dewis, an assistant professor in UBC's School of Nursing and Valerie Leslie of the G.F. Strong Rehabilitation Centre. The study focused on the needs and concerns of young adults at the centre involved in rehabilitation programs for spinal cord injuries.

"We were concerned because some of the young people, particularly those whose injuries were quite recent, weren't participating as actively as they could in the programs," says Ms. Dewis.

"Through the study we discovered that embarrassment about their bodies -- changes in physique, loss of bladder and bowel control and concern about hygiene -- was inhibiting them from contact with other people."

Participants in the study were asked to rate their feelings on a scale of one to five about their loss of mobility, loss of bladder and bowel control, impaired use of their arms, general physique and sexual disfunctions. One to two-hour interviews were then carried out to discuss the patient's needs and concerns.

"The most distressing factor to them was the loss of bladder and bowel control," says Ms. Dewis. "They were also very concerned about changes in physique, in particular about developing a protruding stomach, which often occurs when control of abdominal muscles is lost."

"We have to remember that all the normal teenage concerns about appearance and body image still exist, and are usually amplified, for young people in wheelchairs. In several cases, the change in their appearance was of greater concern to them than their loss of mobility."

The most important need for young adults with spinal injuries is to feel "like everyone else," says Ms. Dewis. "They will go to great lengths to try and cover up their differences and to fit in."

Ms. Dewis has set out recommendations for caregivers working with spinal cord patients. "We have to be very sensitive to their concerns about hygiene, their desire for clothing that camouflages parts of their body they may feel self-conscious about, and their need to control their body functions."

"If we can help them to feel as attractive and independent as possible, their transition back into the community will be much more successful."

Quail unit is largest on continent

UBC animal scientist Kimberly Cheng is the first to agree that good things come in small packages.

Dr. Cheng is head of UBC's Quail Genetic Stock Centre, where scientists are developing new lines of quail for use in genetics research. He says smaller poultry such as quail are becoming more popular in North America as an alternative to turkey and chicken.

The UBC quail unit, the largest facility of its kind in North America, is supported by a grant from the Natural Sciences and Engineering Research Council of Canada. Each year 15,000 quail are raised at UBC for use in scientific research across Canada and the United States, and for teaching and demonstration programmes in B.C.'s universities, colleges and schools. The birds are also sold to restaurants and the general public in Vancouver, along with the almost 100,000 eggs produced each year at the unit.

"Quail is very similar to chicken in taste," says Dr. Cheng. "It's more popular in metropolitan areas in Canada, because the ethnic communities, particularly French, Italian, East Indian, Greek and Oriental populations, are used to quail as a staple food. Most North Americans are just becoming familiar with it now."

Food irradiation concerns

Few issues have caused as much debate among groups interested in nutrition and health in the past year as the question of food irradiation safety.

Drs. John Vanderstoep and Brent Skura of UBC's Food Science Department recently appeared before a House of Commons standing committee on Consumer and Corporate Affairs to discuss the issue along with groups such as Mothers Against Nuke Food, the Canadian Coalition to Stop Food Irradiation and the Society Promoting Environmental Conservation.

"There are a lot of misconceptions in the public mind about the safety of food irradiation," says Dr. Vanderstoep. "I think an increased awareness of the factors involved in the process would reduce some of the fears that people have."

He says the biggest misconception people have about irradiation is that it will cause radioactivity in a food product. "Gamma rays, the form of energy that is used in food irradiation, are adequate to stop the

deterioration process in food, but are too low to induce radioactivity in the product. Strict guidelines are in place for the energy levels that can be used to treat food."

He adds that neither the food nor food handlers come in direct contact with the energy source at any time during the process.

Other concerns people have about irradiation, says Dr. Vanderstoep, revolve around chemical alterations in the food and a loss of nutrients. "What most people don't realize is that these same factors occur in the more traditional chemical and thermal food processes."

"It's impossible to prove that any process or product is completely safe. All we can do is minimize the risk factors to the best of our ability."

Dr. Vanderstoep says the main disadvantage of irradiation as a preservation technique is cost. "At the moment, it's cheaper and as convenient to treat food using chemicals or thermal treatment."

'Contractor's universe' helps construction trade

Few Canadian industries are as competitive and volatile as the construction industry. But a researcher in UBC's Civil Engineering Department has developed a computer program that is helping companies manage construction projects with greater efficiency and harmony.

Dr. Alan Russell has captured on computer what he refers to as 'the contractor's universe'. "We've analyzed how information flows through the various people a contractor deals with -- from banks and surety companies to the many sub-trades involved in a construction project."

"Our goal was to develop a computer model that would serve as a guide to construction companies on how to manage their time and financial resources efficiently. In the field studies we've done, the program has helped contractors bring projects in ahead of schedule and under budget."

Dr. Russell says one of the difficulties in construction management is that most of the information and expertise in the business is passed down by word of mouth.

"There is a tremendous amount of experience out there, but it's not documented. What we've tried to do is to gather this experience and incorporate it, along with our own ideas, into a prototype management

system that companies can use as a model."

Dr. Russell's model improves productivity in a number of ways. For example, it incorporates innovative planning tools to help contractors quickly formulate alternative construction plans, a process essential to productivity improvement. The model is particularly useful for projects that involve repetitive tasks, such as high-rise buildings, stadiums, bridges and rapid transit guideways.

One of the key goals, says Dr. Russell, is to help create a better working relationship among the client, the construction company and the sub-trades involved in the project.

"We've set up a model where the three parties establish work priorities and agree ahead of time on reasonable time frames to complete various tasks and reasonable cost estimates. Then there are no surprises once the project is under way and each party knows what is expected of them."

Dr. Russell and his colleagues are developing a strong training component to help people in the industry understand the model.

"So far, companies participating in our field testing have been enthusiastic about the program. They've seen that better management techniques directly affects their profits," he said.

UBC Conference Centre is host to the world

by David Morton

They will be coming from around the world: Europe, China, U.S.S.R., Central and South America, not to mention from every corner of Canada and the U.S. And the University of B.C. will play host to them all.

They're conference delegates and there will be an estimated 22,000 of them on campus over the summer. They will be attending any one of 141 different meetings scheduled to take place from the beginning of May to the end of August.

While numbers will be smaller than last year, Susanne Nikles of UBC's Conference Centre says 1987 will be a busy year for conferences on campus. Last year, the Conference Centre booked a record 194,229 room nights for UBC conferences, about double that of most years.

Still, visitors to the campus could be witness to any number of lectures, displays, demonstrations and spectacles. The list of conferences shows topics ranging from the esoteric to the bizarre. Many of these will include some activities open to the general public, but others, because of their specialized nature, will be open only to registered members of the sponsoring association.

Here's a brief list of some of the conferences coming to UBC this summer:

V-CON 15 -- May 22-25. This conference is for science fiction buffs and attracts fans from across Canada and parts of the U.S. Many delegates show up in costume from their favourite sci-fi book or movie. Writers Sam Moscovitz and Forrest Ackerman will be speaking at the conference, among other activities. The public may attend upon purchase of the \$20 membership.

Canadian Association of Physical Health and Educational Recreation (C.A.P.H.E.R.) -- June 6-14. This international conference will be discussing issues in sports and recreational policy and will feature Federal Sports and Recreation Minister, Otto Jelinek as one of its speakers. This is expected to attract wide media attention, including coverage by CBC's *The Journal*.

World Conference on Indigenous People's Education -- June 8-13. This first-ever conference focusses on educational issues for native peoples from around the world and is expected to attract a multi-national audience.

Open to the general public, there will be lectures, workshops, displays and a special dinner featuring foods from the cultures of the indigenous peoples represented.

Canadian/American Astronomical Societies -- June 11-20. With the recent discovery of a new supernova by a Canadian astronomer,

this conference will draw wide media coverage, notably the PBS television science program, *Nova*. Open to the public, this first joint meeting of the Canadian and American Astronomical Societies, will feature a special lecture on High Resolution Imaging in Astronomy on Tuesday, June 16.

North West Weavers Conference -- June 21-26. A meeting of the associated weavers' guilds in the Pacific Northwest. There will be public displays of woven works June 24-25 in the War Memorial Gymnasium. A show of competition pieces will be on view at the Asian Centres.



Museum winner

Winner of the membership contest held during Open House by the Museum of Anthropology is Mrs. Gerry Foulds, centre, who received as her prize, her choice of a framed print. With the winner are Louise Lupini, right, president of the MOA's Volunteer Associates and Vera Coombe who chairs the membership committee. New members who joined during Open House were eligible for the contest.

Librarian McInnes named to post

UBC's chief librarian, **Douglas McInnes**, has been appointed president of the Canadian Association of Research Libraries (CARL) for a one-year term, effective June 1987. CARL is a very important organization for research libraries in Canada, dealing with major issues that require library cooperation and information exchange. Members are the Canadian university libraries, the National Library of Canada and Canada Institute for Scientific and Technical Information (CISTI).

Prof. Oscar Szklai of UBC's Forest Science Department was named an Honorary Life Member of the Northwest Scientific Association at its annual meeting held at Pacific Lutheran University last month. Prof. Szklai is known internationally for his work in the field of forest genetics.

Danny Kon-Wing Lam, a second-year Fine Arts student, has won first prize in the B.C. Canada Day Poster Contest, and is one of the finalists in the running for the grand prize.

A total of 1,100 British Columbians entered the contest. The grand prize is an all expense paid trip to Ottawa for the winning artist and his or her immediate family, who will be guests of the Secretary of State on Parliament Hill for Canada Day.

Microbiologist **Dr. Julia G. Levy** has been appointed to the National Advisory Board on Science and Industrial Technology. This advisory board is part of a major thrust to develop and improve Canada's Science and Technology initiatives in both the public and private sector. Dr. Levy's research centres on the manipulation of the body's immunological defense system to fight cancer and other diseases.

Shelley Hulko and **Dawn Rydeen** are this year's winners of the Frank de Bruyn Memorial

Debating Prize.

The students received \$100.00 each. Runners-up **Lynne Charbonneau** and **Andrea Brawner** each got \$50.00, and all four were also taken to lunch at the Faculty Club, said English professor Dr. Ronald C. Johnson.

Eighteen teams participated, debating the resolution "that information about AIDS should

be a mandatory part of sex education in the high schools."

The competition, which is open only to English 100 students, got under way February 5, and the finals were held March 17.

It was established by retired UBC English professor Jan de Bruyn in memory of his son.

Ethics course offered

Personal traumas, professional dilemmas or just a very topical curiosity about biomedical issues in general all draw students to a course in applied ethics offered by the philosophy department.

The course was developed by Dr. Earl Winkler, who is on sabbatical this year, and is currently taught by Dr. Joanne Yamaguchi.

"A substantial number of the people in the class are from the health sciences," she says. "The rest are in arts, commerce, science -- sometimes engineering."

They are there to consider the moral problems inextricably bound up with issues such as abortion, euthanasia, surrogate motherhood, organ transplants, genetic engineering, behavior modification, compulsory treatment, and experimentation with human beings and animals.

"People express a great variety of reasons for taking the course," says Dr. Yamaguchi, who is with UBC's philosophy department. "Some are facing a family trauma like euthanasia, or a decision with respect to abortion."

Many of the health sciences students want to figure out now how they will deal with professional dilemmas certain to confront them in the future. Others see the issues tackled in Philosophy 407 as matters of public concern, and want to come to some personal conclusions about them.

Dr. Yamaguchi says there is a marked difference between the attitudes of nursing and pre-med students considering problems of biomedical ethics.

"The nurses see themselves primarily as care givers. For them, the question in a difficult situation with a terminal patient is whether 'care' is to be interpreted as intervention or non-intervention."

Doctors, on the other hand, do not focus on care. "They are primarily motivated to save lives at all cost, and are much more interventionally oriented."

The nurses, however, argue that this might change if doctors spent as much time with the patients, and saw as much suffering, as nurses do. Classroom discussion "is sometimes quite heated," says Dr. Yamaguchi. "But generally it's enlightening for all concerned."

She adds that more pre-med students take the course now than in the past, and expects this trend to continue. The media have covered events such as surrogacy, organ transplants and euthanasia as important social issues. "When things become matters of public concern, almost by definition they become moral issues, because of the plurality of values in the public sphere. And as the public grows more concerned and knowledgeable, there is increased pressure on people in health care to be sensitive to non-medical aspects of their work."

In Memoriam

Grace Macdonald

Vancouver choreographer and director Grace Macdonald died April 4 at the age of 71.

Miss Macdonald was known throughout Canada for her work with groups such as the Vancouver Opera Association, the Vancouver Ballet Society, Theatre Under the Stars, the B.C. Lions Cheerleaders and her own school, the Grace Macdonald School of Dance.

She was best known at UBC for her association with the Musical Theatre Society (MUSSOC) and the Frederic Wood Theatre.

Miss Macdonald first became involved with the university in 1952, when she choreographed MUSSOC's production of *The Red Mill*. This show heralded a new age of Broadway-style musical theatre on the campus. During the next 33 years she choreographed and/or directed almost all of MUSSOC's productions, including such hits as *The Boyfriend*, *Half A Sixpence*, *Bye Bye Birdie*, *Guys & Dolls*, *West Side Story*, *Oklahoma!*, and the 1986 production of *Fiddler on the Roof*, which was her last MUSSOC show.

Walter Quan, who was MUSSOC president in 1986, says that Miss Macdonald will be greatly missed. "Her enthusiasm, energy, wit and love will be remembered by all the people whom she touched over the years," he said.

Radio continued from Page One

university-industry liaison; Dr. Ray Andersen (Oceanography and Chemistry) on anti-cancer compounds found in marine animals; Mr. Sam Stevens (Law) on UBC's Native Law Program; Prof. Paul Gilmore (Computer Science) on computer messaging; Prof. Ken Craig (Psychology) on infants coping with pain; Prof. William Oldham (Civil Engineering) on new methods of waste treatment; Dr. Brian Pate (Pharmaceutical Sciences and TRIUMF); and Prof. Laszlo Paszner (Forest Harvesting and Wood Science) on converting forest waste products into liquid fuel.

A second *UBC Perspectives* series, which focused on UBC research in the humanities and social sciences, was produced by Community Relations in March. Plans are under way to produce additional programs.

Intercollegiate sports season at UBC most successful

by Steve Campbell

The past intercollegiate sports season at UBC rates as one of the most successful in recent years. Thunderbirds athletes and coaches brought home medals and honors from national and international competition. That's something that pleases Bob Hindmarch, UBC director of athletics and sports services.

"We're really happy with the success of the teams this past year. When the intercollegiate teams do well, it's a good reflection on our men's and women's athletic programs and their directors. Everyone contributes to a winning team," said Mr. Hindmarch.

Football and soccer teams captured the Canadian national championships in Toronto in November. Football defensive back Mark Norman won the President's Trophy when he was selected the Canadian university defensive player of the year.

In soccer, the Thunderbirds captured their third straight national title by defeating the University of Toronto Blues 4 to zero in the national final while the football team thrilled a national television audience by edging the Western Ontario Mustangs 25 to 23 in Toronto's Varsity Stadium.

The Thunderbirds women's soccer team took their fourth consecutive Canada West title and will be aiming at the first-ever Canadian Inter-university Athletic Union (CIAU) national championship expected to take place this fall.

Other outstanding team results include the rugby Thunderbirds rounding up the unofficial North American university championship by defeating the University of Victoria Vikings 17-

7 in the annual "Boot" cup game in February. Team captain and national team flanker Roy Radu will finish off his season with a trip to the World Cup of rugby to be held in Australia and New Zealand in May and June.

The Cinderella team was the men's basketball team, which won the last 10 games of the season to defeat the Victoria Vikings for the Canada West championship--UBC's first since 1975-- and advance to the CIAU national tournament in Halifax. There, second year coach Bruce Enns' young team won two games to advance to the final before being downed by Brandon University 74-68 on national television. Senior guard Paul Johansson was selected an All-Canadian and also rated an invitation to the national team tryout camp in May from which the Olympic team will be selected.

Individual honors went to soccer goalie Brian Kennedy who capped an outstanding career at UBC by being selected the Bobby Gaul Trophy winner as UBC's outstanding graduating male athlete. He backstopped the Thunderbirds to three consecutive national titles and was selected as the All-Canadian goal-keeper in each of those years. This past year he didn't allow a goal from the field.

Trackster Joanne Gaspard won the Marilyn Pomfret Trophy as UBC's top women athlete at the Women's Big Block and Awards Dinner at the University Golf Course in March. She won the CIAU 60-metre hurdles championship for the second year in a row and finished an outstanding season in fine fashion.



Top athletes Joanne Gaspard and Brian Kennedy.

Summer activities fun for all on UBC campus

UBC is the place to be this summer, with activities ranging from tennis, swimming and racquet sports to Sunday teas, outdoor concerts and summer stock theatre. Listed below are some of the attractions and upcoming events on campus. Make UBC a part of your summer!

TOURS

* **FREE GUIDED WALKING TOURS** of the campus are offered weekdays at 10 a.m., 1 p.m. and 3 p.m. by UBC's Community Relations Office. Tour highlights include the Geology Museum, the Main Library, the Aquatic Centre, the Rose Garden, the Asian Centre and more. To book a tour, call 228-3131.

* See the latest in dairy agriculture at UBC's **DAIRY CATTLE TEACHING AND RESEARCH CENTRE**. Free group tours offered weekdays throughout the summer. For details, call 228-4593.

* Visit **TRIUMF**, the world's largest cyclotron, where sub-atomic particles are created for use in leading edge research and cancer therapy. Free tours offered twice a day, Monday through Friday. To book a tour, call 222-1047.

* At the **UBC OBSERVATORY** you can view solar flares, stars, sunspots and see equipment used to monitor seismic activity. For details, call 228-2802.

* UBC's 5,157-hectare **RESEARCH FOREST**, located in Maple Ridge, is a beautiful spot to spend a summer day. You can explore the forest trails on your own or take a guided tour with a professional forester. For information and directions, call 463-8148.

ATTRACTIONS & ENTERTAINMENT

* UBC's **SCHOOL OF MUSIC** offers its annual concert series "Music for a Summer's Evening" on seven consecutive Thursdays from July 2 through Aug. 12. The free concerts begin at 8 p.m. in the Recital Hall of the Music Building (early arrival is recommended). For details on music performances, call 228-3131.

* UBC's **MUSEUM OF ANTHROPOLOGY** houses one of the most impressive collections of Northwest Coast Indian artifacts in the world. The museum also sponsors special exhibits, programs and events throughout the year. Open Tuesday through Sunday, with free admission on Tuesdays. For details, call 228-5087.

* Minerals, fossils, even an 80-million-year-old Lambeosaurus dinosaur skeleton are on display at UBC's **GEOLOGY MUSEUM**, located in the foyer of the Geological Sciences Building. An impressive collection of fossils and crystals are on sale at the Collector's

Shop. Museum is open weekdays from 8:30 a.m. to 5 p.m. Call 228-5586 for details.

* A visit to UBC's **ASIAN CENTRE** is the next best thing to a trip to the Orient. Adjacent to the Japanese Nitobe Garden, this spectacular

building is a major Vancouver centre for Asian activities. The Japanese Bell Tower at the entrance to the centre is a must for photographers. Call 228-2746 for more information.

* **FREDERIC WOOD THEATRE** stages year-round performances of traditional and experimental theatre. UBC's summer stock company will perform four plays this year: Agatha Christie's *Appointment with Death* opens May 27 and runs through June 6; *Loot* by Joe Orton runs June 17-27; Michel Tremblay's *Bonjour La, Bonjour* will be staged July 8-18; and the final show, Barry Broadfoot's *Ten Lost Years*, runs July 29 to Aug. 8. For ticket information, call 228-2678.

* **OLDE ENGLISH TEAS** are offered every Sunday afternoon at Cecil Green Park, a beautiful turn-of-the-century mansion overlooking Georgia Strait, beginning May 3. Tea sittings are at 12 noon, 2 p.m. and 4 p.m. Reservations (228-2018) are recommended.

* Take a stroll through UBC's beautiful **BOTANICAL GARDEN**. The Main Garden, located on Stadium Road, features many specialized garden areas and a Garden Shop with unique gift items. The Japanese Nitobe Garden, located behind the Asian Centre, is a visitor's delight with its delicate landscaping and authentic Japanese teahouse. Call 228-4208 for hours.

KEEP FIT!

* UBC's **AQUATIC CENTRE** features two 50-metre indoor and outdoor swimming pools, saunas and steam rooms, a whirlpool and a complete fitness centre. Call 228-4521 for 24-hour pool information.

* Tennis enthusiasts are invited to make use of the extensive indoor and outdoor tennis facilities (including grass courts) at UBC's **TENNIS CENTRE**. Club memberships, a pro shop and year-round lessons available. For more information, call 228-4396.

* If you'd like to improve your golf swing, practise your hockey skills or even brush up on your fencing moves, the **COMMUNITY SPORTS PROGRAM** at UBC can help. UBC offers a wide range of sports programs for children and adults throughout the summer. Call 228-3688 for details.

* Squash and racquetball facilities are available year-round at the **THUNDERBIRD WINTER SPORTS CENTRE**. For bookings, call 228-6125.



Small boy, big bell. The bell is at the Asian Centre, one of the many beauty spots on campus for visitors of all ages.

UBC Calendar

MONDAY, MAY 4

B.C. Cancer Research Centre Seminar
Steroids in Reproduction and Cancer. Dr. John P. Wiebe, Biochemistry, University of Western Ontario. Lecture Theatre, B.C. Cancer Research Centre, 601 West 10th Ave. 12:00 noon.

WEDNESDAY, MAY 6

Field Trip and Lecture
Owls of British Columbia. Dick Cannings, Curator, Cowan Vertebrate Museum. Sponsored by Centre for Continuing Education. \$12. For more information, call 222-5237. Room 2449, Biological Sciences Bldg. 7:30 p.m.

THURSDAY, MAY 7

Applied Science Seminars
Large Scale Computing for the University Environment. Dr. Thomas J. Harrison. Room 228, McLeod Building. 12:30 p.m.
IBM 3090 Vector Facility - Design and Performance Perspectives. Dr. Thomas J. Harrison. Room 228, McLeod Building. 3:30 p.m.

FRIDAY, MAY 8

4th Annual Research Day
Sponsored by UBC School of Nursing. Major presenter, Dr. Ann Hilton. Other papers to be given by faculty and graduate students. Free admission. 3rd floor, Acute Care Unit, School of Nursing. For more information, call 228-7417. 8:30 a.m. - 4:00 p.m.

Social Work Symposium

Research Day. Paper Presentations. \$15, \$7 for students. For information, call 228-2576. School of Social Work, Graham House. 9:00 a.m. - 4:30 p.m.

UBC Research Forest Day

Theme: Our Forests - A Shared Resource. One-hour free guided tours of selected areas of UBC Research Forest. Tours leaving north entrance of Haney Place Mall each hour. 10:00 a.m. - 3:00 p.m. For more information, call 465-7161.

Mass Spectrometry Discussion Group

User's mini-symposium. For more information, call G.K. Eigendorf 228-3235. Hewlett-Packard, 10691 Shellbridge Way, Richmond. 1:30 p.m.

SATURDAY, MAY 9

B.C. Cancer Research Centre Open House
Explore the facility and see displays depicting the work of some 40 scientists and 130 support staff seeking better diagnosis, treatment, and understanding of cancer. For more information, call 877-6070. B.C. Cancer Research Centre, 601 West 10 Ave. 10:00 a.m. - 5:00 p.m.

Spring Fun Fair

Held by the Summer of '73 Daycare. The festivities will

include pony rides, games, face painting, white elephant sale and much more. For more information, call 228-3208. 2727 Acadia Road. 11:00 a.m. - 1:00 p.m.

MONDAY, MAY 11

B.C. Cancer Research Centre Seminar
Aspects of Ionizing Radiation-Induced Neoplastic Transformation. Dr. Collin Hill. Head, Experimental Radiotherapy, Dept. of Radiation Oncology, University of Southern California. Lecture Theatre, B.C. Cancer Research Centre, 601 W. 10th Ave. 12:00 noon.

TUESDAY, MAY 12

Research Centre Seminar
Phosphoinositide Metabolism and Hormone Action in the Ovary. Dr. Peter C.K. Leung, Obstetrics & Gynaecology. Refreshments provided at 3:45 p.m. Room 202, The Research Centre, 950 W. 28th Ave. 4:00 p.m.

WEDNESDAY, MAY 13

Biochemical Discussion Group
Structure-Function Studies in Proteins by Mutagenesis. Dr. John Richards, California Institute of Technology, Pasadena. IRC 3. 4:00 p.m.

FRIDAY, MAY 15

Medical Genetics Seminar
Case presentations and counselling issues. Clinical Geneticists, Clinical Genetics Unit, Grace Hospital. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak St. 1:00 p.m.

NOTICES

Botanical & Nitobe Memorial Gardens

The Botanical Garden and Nitobe Memorial Garden will be open daily 10:00 a.m. - 8:00 p.m. Free admission Wednesdays. For information, call 228-4208.

Exhibition of Paintings

Scene and Unseen. May 3 - 29. Paintings by K. Patricia MacBain, at the Faculty Club.

Fine Arts Reference Publication

The Fine Arts Library is publishing an annual microfiche listing of exhibition catalogues and permanent collection catalogues currently received. The list will be by authors, galleries and museums, title, subjects and artists. There will be a separate index by city to this list. The list serves as an index to artistic activity by an artist, at a gallery or in a certain city. Visual records of specific works of art can be traced. Also, exhibition catalogues often contain the first written biography of a new artist. Projected price: \$5 - \$10. For more information, call Diana Cooper, Fine Arts Library, 228-3943.

UBC/SPCA Short Course

Animal Cell Culture. Open to students, staff and faculty attending any of the B.C. universities. June 11 and 12. This course provides a basic level of knowledge for those wishing to learn techniques of animal cell culture. \$55. For registration, contact the following no later than June 10: Dr. David Mathers, Dept. of Physiology, 2146 Health Sciences Mall, Tel. 228-5684.

Recreation UBC Summer Hours

The Rec. UBC outdoor rental shop resumes full time summer hours beginning May 1 through September 1. All types of outdoor equipment may be rented for reasonable prices. Shop is open daily 7:30 a.m. - 3:30 p.m. except Sunday. Located in the dispensary of the War Memorial Gym. For more information, call 228-3515 or 228-3996.

Workshop Series

Career Beginnings. Sponsored by Office for Women Students. An intense course of career planning for recent (and near) graduates. Combines support and skills for confidence-building, decision-making and job hunting. Free for UBC graduates but registration is required at the Women Students' Office, Room 203, Brock Hall, telephone 228-2415. Tuesdays & Thursdays, May 5, 7, 12, 14, 19 & 21. Women Students' Lounge, Brock 223. 9:30 - 11:30 a.m.

Continuing Education Workshop

Flying Without Fear. Dr. Peter McLean, Head, Dept. of Psychology, HSCH. For more information, call 222-5237. \$250. Conference Room, Centre for Continuing Education. Fridays, May 8 and 15, 7:30 - 9:30 p.m. Saturdays, May 9 and 16, 9 a.m. - 12 noon and 1 - 3 p.m.

Computing Centre Non-credit Courses

The Computing Centre is offering a series of free non-credit courses during May and June. 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 228-6811, or you can pick up a schedule from the Computing Centre general office (CSCI 420).

Laboratory Chemical Safety Course

The UBC Occupational Health and Safety Office is offering a course covering chemical storage, handling and disposal, laboratory inspections, emergency response and spill clean up. The two morning lecture sessions (May 26, 27) and one morning practical session (June 4, 11, 12, or 19) are intended for staff who handle chemicals in laboratory, especially head lab technicians, safety committee representatives and chemical storeskeepers. Information and course registration is available from the Occupational Health and Safety Office, 228-2909.

Haide Houses Project

Northwest Coast artist, Norman Tait and a team of five carvers are turning a 29.5 ton, 20 metre-long log into a Nishga cargo canoe - the first of its kind in over 100 years. It will be paddled down the west coast to California, tracing the ancient abalone trading routes. For further information call 228-5087. Haide Houses, Museum of Anthropology. Continues throughout the summer.

Reach-out Program

Volunteers needed for the Reach-out Program. Become Vancouver correspondents for the international students who will be studying at UBC in 1987. For more information, call UBC International House 228-5021.

Fathers Wanted

Fathers of children between the ages of 3 and 8 are required for a research project associated with the Department of Psychology of the University of British Columbia. The project involves evaluating a program that teaches parenting skills. Approximately 50 minutes are required and \$5.00 will be paid for your participation. For additional information, contact Susan Cross, Clinical Psychology, UBC, 321-4346.

Arts faculty essay contest winners

Three Vancouver area high school students have won \$1500, \$1000 and \$500 in UBC's first-ever essay contest.

More than 1,600 Grade 12 students from across B.C. entered the competition, which was organized by the Faculty of Arts.

The winners were Ari Gillgson of Sir Winston Churchill Secondary School, J. Rachel Cave of Hillside Secondary in West Vancouver, and Shaiza Damji, a student at Crofton House.

Another 22 students received book prizes, and 85 more were awarded honorable mention.

The students gathered in their respective schools at 1 p.m. February 9 to write the essay. The topic, kept secret until then, was "Discovery." Papers were identified by numbers only, to ensure anonymity.

The book prizes were won by David Besler and Jennifer Simunich, Alberni District Secondary School, Port Alberni; Mark Hoegnig, Alpha Secondary School, Burnaby; Sonja Lindstrom and Lee-Ann McGuire, Argyle Secondary School, North Vancouver; Damienne Darby, Crofton House, Vancouver; Christine Hay, Fernie Secondary School, Fernie; Jeremy Smith, Glenlyon Norfolk House, Victoria; Sean McIlroy, Killarney Secondary School, Vancouver; Tammy Little, Lakes District Secondary School, Burns Lake; Jennifer A. Jackson, Little Flower Academy, Vancouver; Rory Guenard, Max Cameron Secondary School, Powell River; Cameron Spelay, Okanagan Mission Secondary School, Kelowna; Cheryl Niamath, Richmond

Costs swamp UBC library

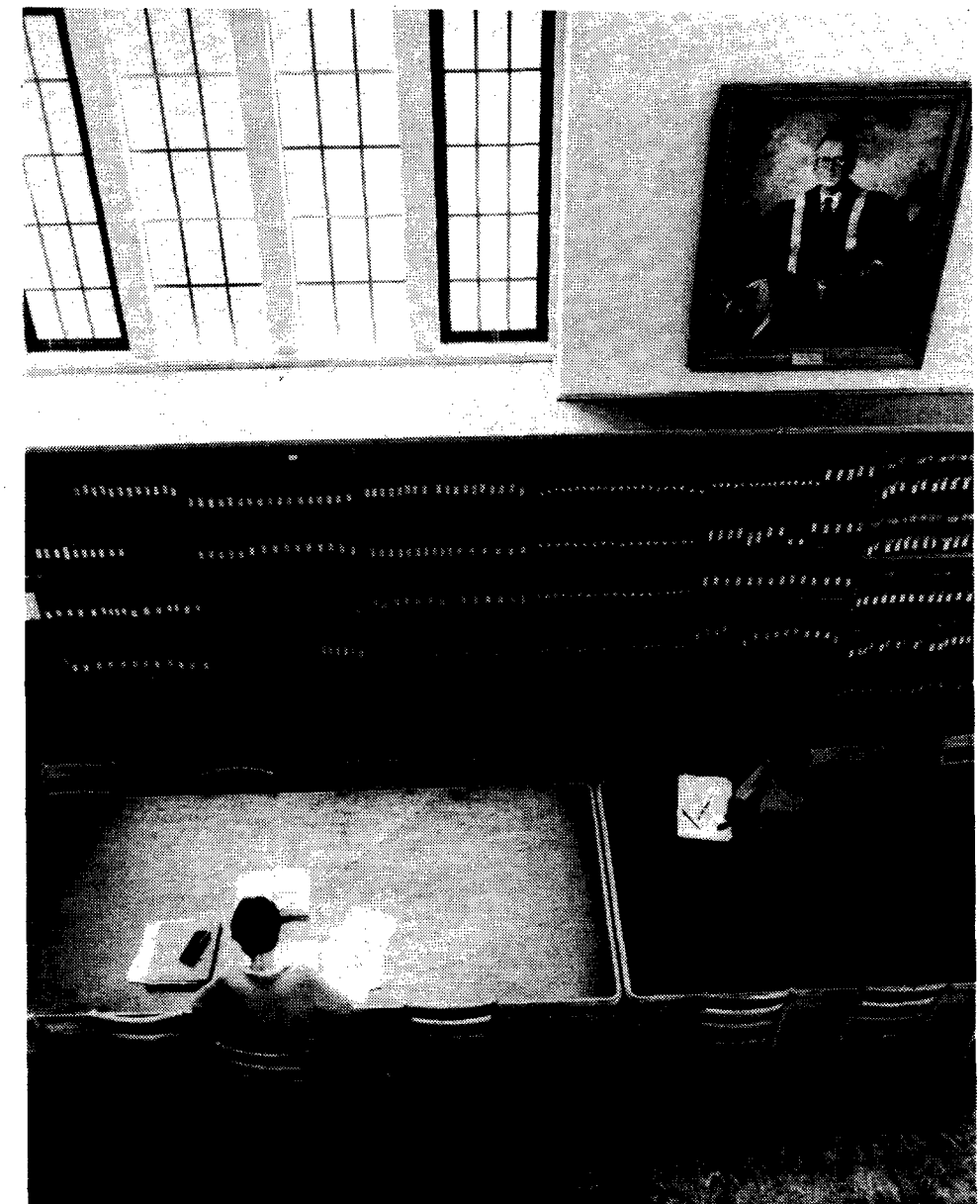
In spite of an eight per cent increase last year in the Library's collections budget, cancellation of 900 subscriptions and substantial salary savings, the library was forced to use up its reserve funding to cover the escalating cost of materials.

"The cost of serials publications was up 18-20 per cent, and we also experienced a tremendous increase in the cost of books from the U.K., Europe and Japan," says chief librarian Douglas McInnes.

In his annual report on the Library to Senate, Mr. McInnes acknowledged the efforts of the University to help the Library, but "we're in a cycle of escalating costs - a problem that faces every university library in Canada."

Secondary School, Richmond; Nikola M. Marin and Todd Sankey, Sir Winston Churchill Secondary School, Vancouver; Colin Godwin, Summerland Secondary School, Summerland; Lynne Boardman, Sutherland Secondary School, North Vancouver; Alexa Sinel,

University Hill Secondary School, Vancouver; Paul Moorehead, Vernon Secondary School, Vernon; Erica Crumlin, West Vancouver Secondary School, West Vancouver; and Michelle Bain, Windermere Secondary School, Windermere.



Lone scholar finds a quiet corner in the library.

Calendar Deadlines

For events in the period May 17 to May 30, notices must be submitted on proper Calendar forms no later than 4 p.m. on Thursday, May 7 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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