UBC Reports

Volume 34 Number 3, February 11, 1988

WRITING CHAIR CREATED

by Debora Sweeney

A $500,000 donation towards an endowed chair in business and non-fiction writing moves UBC one step closer to establishing a school of journalism.

Maclean Hunter Ltd. announced last week it will donate $3 million towards the establishment of six endowed chairs at six Canadian universities, including the $500,000 UBC donation.

B.C. Advanced Education Minister Stan Hagen immediately announced that the provincial government will match the donation, spreading its contribution over a five-year period.

There has been a tendency to look to Eastern Canada for training in journalism, according to Hagen, "and the step taken by Maclean Hunter and matched by the province is of major proportions in turning that perception around."

Dr. Robert Will, Dean of Arts, said, "this chair is a tremendous help in building the foundations that we already have for a school of journalism."

A school of journalism has been approved by the University, but there is no indication of when it might be established. The two-year program would be unique because it is designed for individuals who already have an undergraduate degree.

"Depending on their background, we're anticipating there would be people who have already been reporters, already been writers," said Will. "They would come into our program and want to specialize in science writing, or the economics of health care, or writing for the arts, etc. They would take subject matter courses as well as courses in journalism."

In the meantime, Will said the chair in business and non-fiction writing will fill a gap in the creative writing department, which currently does not include business writing in its non-fiction curriculum. But, he does not see it as a chair in journalism.

"In journalism, some people may imply the emphasis is on reportorial writing," said Will. "We would like to emphasize the creative feature — the art of writing with business as the subject matter."

Toronto-based Maclean Hunter, whose gross revenue exceeds $1 billion, has interests in radio and television stations, cable television, commercial printing, and business and consumer publications and newspapers, including 60 per cent of the Toronto Sun Publishing Corp.

Book batterers take heavy toll

Library starts campaign

by Gavin Wilson

The UBC library has started a campaign to educate "book batterers" on their bad habits.

Each year thousands of library books are damaged by careless borrowers, a problem made worse by the inevitable decay of aging and irreplaceable volumes. Total cost to the library in coming years could run into millions of dollars.

"If you saw the way some books come back to us you'd be horrified. Some of it is vandalism. Some of it is just ignorance," says Anne Yandle, who heads the library's preservation committee.

Many books are stained with coffee, highlighted with yellow markers, underlined, scribbled on — even chewed up by dogs. Others have pages ripped out.

One of the biggest problems is photocopying. Pressing an open book against a copier can result in broken spines and loose pages.

Library staff are using displays and videos in an effort to get book abusers to mend their ways.

Meanwhile, the library has struck two committees, one on preservation and another on disaster planning, to see what can be done to maintain valuable collections.

The library, acting on a major recommendation of the preservation committee, recently appointed Suzanne Dodson as acting preservation librarian. Dodson is also head of the government documents and microforms division.

Photo by Warren Schmidt

Brenda Peterson, information and orientation librarian, examines damaged books

Books in the UBC library are deteriorating so rapidly that more than one-quarter of the 2.5 million-volume collection may be unusable within a few years, says Yandle, who heads the special collections division.

Most books published this century are made with wood-pulp paper that has an extremely high acid content, Yandle explains. In time this paper discolors and becomes brittle. The books will eventually turn to dust on the shelves.

Ironically, books published before 1850 stand up better than their modern counterparts because their paper is made of cloth rags.

UBC's problem is shared by major research libraries around the world, Yandle says.

A recent report by the Canadian Association of Research Libraries concluded that library collections of most pre-1950 materials will not last beyond the first decades of the next century. Other estimates say that 25 to 30 per cent of library books are already in serious condition.

No one has tallied the exact cost of book damage, but the total value of UBC library holdings was recently estimated at more than $203 million.

Even microfilm is not immune to decay, says Dodson. UBC's collection of microfilm is the largest in Canada, and one of the largest in North America.

"Our storage conditions are not good," she says. "There's no air-conditioning, it's too hot and it's poorly ventilated. And there's a tremendous amount of dust, which doesn't help."

At greatest risk are the more than 88,500 microfilm reels which are held in open storage. Already they are showing signs of deterioration, including spots of oxidation librarians call "measles."

An extensive check of the collection has begun and an expert from publishers University Microfilms International of Ann Arbor, Michigan, visited UBC to offer advice, Dodson said.

VSO demise hurts music school

by Gavin Wilson

For UBC music student Cameron Wilson, the collapse of the Vancouver Symphony Orchestra last month was more than a cultural tragedy — it was the loss of a job.

The 23-year-old auditioned last month for the symphony and won a coveted place in the violin section, to begin in September.

"It was my first audition for my first job," says Wilson, who will graduate with a bachelor's degree in music this spring "I was quite shocked."

Wilson represents just one of the ways UBC was affected by the loss of the VSO. Sixteen sessional instructors at the university's School of Music rely on the VSO for fulltime jobs, and there are concerns that some of them may leave to find employment in other cities.

Music student Cameron Wilson

Roger Cole played first oboe in the VSO and has been teaching part-time at UBC for about a decade.

"I can only speak for myself, but if the symphony is not back on its feet in the near future then I for one will be looking for another orchestral job — and that means leaving Vancouver. You can't raise a family on teaching and freelancing alone," said Cole, a father of two.

Dr. William Benjamin, director of UBC's School of Music and a member of the board of the VSO, says symphony players made up about half of the part-time staff who teach individual instruments at the university.

"I am concerned about losing some of our best part-time teachers," he said. "As well, some of our faculty members played as extras in the VSO — it's the equivalent of consulting."

As a VSO board member, Benjamin will be involved in attempts to resurrect the orchestra, which he says will take a major reorganization and much public support.

In the meantime, Vancouver may lose music students such as Wilson. Although he prefers to live here, he says he will go where there's work. He plans to audition for other orchestras while the situation in Vancouver sorts itself out.

"Usually, an orchestral career is what classical music students aspire to," said Wilson. "I was talking to a fellow student the other day and he was quite dismayed. He said he had been preparing throughout university for an orchestral position."

At a campus meeting held shortly after the VSO ceased operations, music students were urged to start a letter-writing campaign and go door-to-door with petitions if necessary to drum up support for the rebirth of the orchestra.

Shuttle takes UBC test

by Debora Sweeney

On January 28, 1986, the world watched in stunned horror as the Challenger space shuttle exploded in mid-air, 73 seconds after take-off.

For UBC pathologist Don Brooks, the shuttle catastrophe was a personal and professional blow. An experiment he designed for the mission was destroyed, and the colleague who was to have performed it was killed.

"It was a tough experience," said Brooks. "It took a while to sink in."

Now, Brooks is preparing to send his experiment back into space on the next shuttle mission, scheduled for take-off in early August. His research team has anxiously waited three years since the experiment was performed successfully on a 1985 flight.

"It's been difficult maintaining people on staff, keeping interest up and staying productive in that long gap," he said.

Brooks' experiment studies how the zero-gravity of space affects a technique designed to separate living cells.

Shuttle Continued on Page 2

Students apologize for eggs

by Lorie Chortyk

The Totem Park Residence Association will send letters of apology to Vancouver City Council and to the editor of the Vancouver Sun for damage caused to downtown buildings during Totem Week celebrations last month.

The damage was caused when an egg-fight broke out during banner night, an annual competition between students from different floors of the residence.

The association has also agreed to a request from Student Housing to discontinue Totem Week activities.

Erik Kiss, president of the Totem Park Residence Association, said the event got out of hand because too many people, including students from other residences and from off campus, got involved.

"The object of the competition is for students from different Totem floors to get their picture taken posting a banner in the most unusual location in the city," he said. "There are points for the most original location, how many people you can cram into the photo, if you can get somebody famous into the picture, or whatever you can do to be different.

Eggs continued on Page 2

UBC doctors have key Olympic role

by Gavin Wilson

As the head physician for Canada's Olympic hockey team, Dr. Gordon Matheson has seen some strange medical practices.

He recalls a wild ride in a Moscow ambulance with an injured Canadian player. The patient was surrounded by sharp edges in the ambulance interior as it swung around corners and the driver calmly smoked a cigarette, oblivious to the oxygen tanks rolling around behind him.

"It's amazing that patients don't end up with more injuries than they had when they started the ride," he says.

Dr. Matheson expects better facilities in Calgary. He is one of two UBC physicians who will be on the sidelines when the Winter Olympics begin Feb. 13. Joining him is Dr. Rob Lloyd-Smith, chief physician for the national cross-country ski team and a doctor at student health services.

Both have been with the teams for several years, monitoring the fitness and caring for the aches and pains of high-performance athletes. It is the first Olympic games for both doctors.

They are matter-of-fact about their jobs, but they are responsible for the health of athletes who are medal contenders. And this year, as Olympic hosts, Canadians have high expectations for their national teams.

For Canadians, hockey has the highest profile of any event at the Winter Olympics. It's up to Dr. Matheson and his medical team to see that the players can stay free of injury and on the ice.

Even when a player is injured, the pressure to keep him in the game is intense, but Dr. Matheson is careful to insure this pressure does not color his diagnosis.

"It's important to treat the athlete like any other patient and sit him down in a quiet room for 20 minutes to examine him.," he says.

Dr. Matheson, who practices part-time at the sports medicine clinic while he completes his Ph.D., says that a lot of the preparation has keyed on prevention. Players undergo a battery of tests designed to measure fitness and catch potential problems before they result in injury.

Although injury rates in the game are on the upswing — despite advances in protective gear — the Olympic brand of hockey is still less rough and tumble than the professional version.

"There's less violence in international hockey," says Dr. Matheson. "On the larger European ice surface there's more room to skate around and it's harder to nail somebody into the boards."

Dr. Lloyd-Smith oversees the medical care of the five male cross-country skiers and an equal number of female skiers. Unlike hockey or downhill skiing, there is less chance of serious injury in cross-country competition. But team members can suffer dislocated shoulders and serious bruising from falls at speeds of up to 70 km/h, he says.

LLOYD-SMITH

Most injuries, however, result from the "overuse" of muscles due to the repetitive movements the sport requires. Shoulders, hips, lower backs and lower legs are prone to this type of injury. Treatment includes easing up on training and physiotherapy.

Cross-country skiers are considered to be the most aerobically fit of athletes. Some races require they sprint up a series of hills in races as long as 50 km. But Dr. Lloyd-Smith says there's not a lot he can do to advise them on a fitness regime.

"They're able to prepare themselves for the races, I don't have a lot of specific advice to offer them. They're aware of training schedules and how to prepare mentally. But I'll be able to do any fine-tuning should a problem or ailment occur," Dr. Lloyd-Smith said.

Some athletes overtrain to the point of burnout. That's when Dr. Lloyd-Smith tells skiers they must stop training for several weeks. It can be a devastating blow to someone who has dedicated their lives to the sport.

Psychology of sports

by Lorie Chortyk

As Olympic athletes from around the world gather in Calgary this week, many will be accompanied by a relatively new member of the sports entourage — a personal psychologist.

Dr. Susan Butt, a UBC psychologist and author of the book Psychology of Sport, said athletes and coaches are becoming increasingly aware of the importance of developing good mental skills to enhance athletic performance.

BUTT

"Ideally, athletes should begin developing these skills very early on," said Butt. "When an athlete is faced with a high-pressure situation, it's not particularly helpful to try to psyche them up or manipulate their emotions. The mental training should be completed long before the actual performance.

"The role of a sports psychologist is to teach an athlete how to relax, how to overcome attacks of anxiety, and how to block out distractions so they can concentrate on their performance. These are skills that are developed over a period of time.``

Butt has worked with athletes at all levels in sports ranging from figure skating, hockey and tennis to rowing, golf, skiing and swimming. As a former captain of Canada's national tennis team, she also has first-hand knowledge of the pressures of international competition.

Butt said the techniques used to help an athlete prepare mentally for competition vary.

"Sometimes the psychologist will have to deal with personal and social problems the athlete has that are distracting from the sports performance,`` she said. "Once those are out of the way the athlete can concentrate on learning to feel relaxed before a competition and confident during the actual performance.

She said athletes used different methods of relaxing right before a performance.

"Some athletes like to be alone, others prefer to be surrounded by their coach and their family and friends. Many athletes also like to listen to music or read poetry before a competition to manage tension."

Media monitoring pays

When UBC speaks, the media listens, according to statistics compiled through a sophisticated method of computer media monitoring.

Year-end statistics for 1987 show the University has doubled its media coverage, with more than 1,000 stories generated by the Community Relations office.

The office established the system two years ago to evaluate print, radio and television coverage created by tipsheets, news releases and campus experts.

"Before, we had no idea who was picking up our stories and why," said Sharon Rowse, Systems Manager. "Now, the system is extremely effective — it enables us to really look at what stories work and what don't."

It is critical that the University is aware of what stories work because alumni, the general public, and the private sector get most of their information about UBC from the print and broadcast media. In return, they give the University their moral, financial and political support.

Each month, clippings from newspapers across Canada and from international publications are collected and the details entered into a database, along with similar information about radio and television coverage provided by faculty members and department heads.

The statistics show coverage of stories by region, including the Lower Mainland, selected cities throughout the province, B.C., Canada, and international. All tipsheets and news releases are entered into the system so News Bureau staff can analyse which stories received coverage and why.

"The media monitoring system at UBC is more sophisticated than any I've seen used in major corporations," said Jim Carroll, Vice-President of Research for Burson-Marsteller, an international public relations firm.

Community Relations Directors from other Canadian universities agree UBC has the most successful method of media monitoring in the country. The Universities of Toronto, Victoria and Ottawa are studying the system with the hopes of implementing it in the future.

According to the statistics, the public enjoys learning the latest trends in health care and medicine, family life, and education. People are fascinated by scientific research, particularly in applied science, astronomy, oceanography and geology. And, everybody likes to hear a good human interest story, from an oceanographer who spends his spare time hunting sea monsters, to the "small town student makes good" success story.

Faculty experts who respond to major news events often make the front pages. The University also makes news with announcements of new research facilities, old buildings that need repair, tuition fee hikes and honorary degrees.

Eggs from Page One

He said the egg-pelting started when some students tried to stop others from tearing down banners.

"It was very unfortunate the way things turned out, but it certainly wasn't planned."

Dr. K.D. Srivastava, vice-president for student and academic services, said the President's Office has received several phone calls and letters from businesses and individuals complaining about property damage. He said the university's position is that individuals who willfully caused damage should accept full responsibility for their actions.

But Kiss said it's impossible for the association to determine who was responsible.

"There were several hundred people downtown that night, and many of them weren't from Totem Park."

He said the association is sending letters of apology to businesses that submit bills for damage to the residence.

Dr. Srivastava said he's pleased with the association's response to his request to discontinue Totem Week celebrations and confine other residence activities to the campus.

Kiss said the association plans to hold several smaller events next year instead of one big Totem Week event.

Shuttle from Page One

If it is successful, the results could lead to advances in the treatment of cancer, diabetes and a variety of other diseases, as well as new biotechnical industries in space and on earth.

"It's a very simple experiment, fortunately, and that's probably why it was selected in the first place," he said.

According to published reports, Brooks' experiment was introduced on the 1985 space shuttle flight to give U.S. Senator Jake Garn something substantial to do. Until then, the Senator had been the butt of jokes suggesting his only function aboard the flight would be to throw up during the ongoing space sickness experiments.

In next August's mission, astronaut G. (Pinky) Nelson, a Ph.D. in astronomy, will perform the cell-separation experiment.

Brooks will fly down the Johnson Space Centre in Houston to brief the astronaut and practice performing the experiment in a shuttle mock-up.

People

Low visits alma mater

Dr. Morton Low, UBC's Co-ordinator of Health Sciences will travel back to his Ph.D. alma mater to help celebrate its 40th anniversary, along with some world-renowned scientists.

As a "distinguished graduate" of The Baylor College of Medicine, Houston, Texas, Low has been invited to participate in a scientific colloquium where he will discuss Canada's health care system and UBC's health policy research.

Dr. Michael DeBakey, one of the world's most famous heart surgeons and **Dr. Roger Guillemin**, who won a Nobel Prize for his work in brain chemistry, also have been invited as speakers.

* * *

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

The winners for 1987 are **Dr. W. Ovale**, anatomy; **Dr. H. Nichol**, psychiatry; **Dr. R. Selby**, pediatrics; and **Dr. R. Cardoso**, obstetrics and gynecology.

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

* * *

The provincial Ministry of Education recently announced the appointment of **Dr. Nancy Sheehan**, dean of UBC's Faculty of Education, to the 20-member council of the new College of Teachers. In addition to Dr. Sheehan, who will represent deans of university faculties of education in B.C., the council is made up of four government appointees and 15 teachers elected from throughout the province.

Noh troupe at university

One of Japan's premiere Noh theatre troupes will visit the university for workshops and demonstrations on Sunday, Feb. 21.

The Tokyo-based troupe will also hold a full performance at the Vancouver East Cultural Centre on Feb. 22 (for details, see calendar of events on page four).

Noh is the oldest type of classical Japanese theatre, dating back 500 years, but is still a living art with more than one million patrons in Japan, says Asian Studies professor Leon Zolbrod, who is coordinating the visit.

Besides the poetry, dance, music and acting skills involved, Noh offers a stunning display of intricate costumes which are designed to reflect the role characters play.

International Trade Minister Pat Carney toured the TRIUMF labs last week, escorted by B.C. Advanced Education Minister Stan Hagen and Director Dr. Erich Vogt.

Student makes waves at engineering contest

by Jo Moss

Water on the deck of a fishing boat can cause instability—a safety problem one UBC student is hoping to improve.

Mechanical Engineering student Philip Chan has spent ten months building a wave simulation model. It's a computer controlled sloshing tank—a plexiglass tank coupled to a motor that rocks the tank of water in a teeter-totter motion.

Chan hopes the model will win a prize in the fourth annual Western Engineering Competition to be held on campus Feb. 19 to 21.

His entry is the only one representing UBC in its category, but it will be competing against nearly a dozen entries from other western universities.

In all, six teams from UBC will compete in four categories: entrepreneurial design, corporate design, explanatory communications, and editorial communications.

"The sloshing tank represents what is happening on the deck, or in the holding tanks, of a fishing vessel," Chan explained. "I'm looking at the relationship of the rocking to the wave and measuring the amount of force the motion produces."

According to his project supervisor, engineering professor Sander Calisal, sloshing is a serious problem not only for fishing vessels, but for any type of container vessel.

"We've investigated insurance reports, for example, that show fire trucks returning to the station often capsize when they speed up around corners because the water tank the vehicle carries is not completely full," Calisal said.

Sloshing investigation can also be applied to the stability of satellites, he added.

Open to undergraduate engineering students from any university in B.C., Alberta, Manitoba or Saskatchewan, the Western Engineering Competition is a showcase for student innovations and an opportunity for recognition from the professional engineering community.

Previous WEC entries have included projects on robotics and industry; holography; and voice activated controllers.

This is the first year Chan, 21, has entered.

Winners in each category are eligible for higher stakes at the national championships—the Canadian Engineering Competition. A first place for Chan would take him to the University of Moncton, New Brunswick in March to compete against top engineering designs from across Canada.

UBC took a first-place and two third place rankings in last year's western competition. Prize winners take home $500 for first place, $400 for second place and $300 for third place.

The more than 30 entries will be on display to the public in the CEME and Electrical Engineering buildings on Saturday, Feb. 20.

Photo by Warren Schmidt

Philip Chan hopes to win a prize with his wave machine. Sander Calisal is his project supervisor.

UBC Calendar from Page 4

Oceanography Seminar

British Columbia Fjord Studies. Dr. S. Pond, Oceanography. For information call 228-5210. Room 1465, Biological Sciences Building. 3:30 p.m.

Geological Sciences Seminar

Rifting in S.W. Mexico: A Tectonic Terrane in the Making? Dr. J. Allan, Geological Sciences. For information call 228-6179. Room 330A, Geological Sciences Centre. 3:30-4:30 p.m.

Applied Mathematics Seminar

An Algorithm for Three-Dimensional Tidal Computations. Dr. Robin Lardner, Mathematics & Statistics, Simon Fraser University. For information call 228-4584. Room 229, Mathematics Building. 3:45 p.m.

Lecture Series for Physics Teachers

Nuclear Physics. K. Hicks. For information call TRIUMF Information Office at 222-1047. Free parking beside TRIUMF Buildings. TRIUMF Auditorium, 7:00-9:00 p.m.

WEDNESDAY, FEB. 24

Pharmacology & Therapeutics Seminar

The Muscle Spindle. Dr. B. Ovalle, Anatomy. For information call 228-2575. Room 317, Basic Medical Sciences Building Block C. 12:00 noon.

Noon-Hour Series

Sponsored by the School of Music. Robert Riseling, clarinet; Bruce Vogt, piano. Admission by donation. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

Cecil & Ida Green Visiting Professor

The Charter of Rights and its Impact on Canadian Life. Professor Charles Taylor, Political Science, McGill University, Montreal. For information call 228-5675. Rooms 101, 102, 201, Law Building. 12:30 p.m.

Forestry Seminar

Forestry in Pakistan. G. Vern Wellburn, FERIC. For information call 228-2507. Room 166, MacMillan Building. 12:30-1:30 p.m.

English Colloquium

Switched on Shaw: Editing The Man of Destiny Using the Mainframe Computer. Mr. Stephen Matsuba. For information call 228-5743. Penthouse, Buchanan Building. 3:30 p.m.

Geography Colloquium

The Regional Problem: The Experiences of Three Continents, North America, Latin America, and Europe. Professor Antoni Kuklinski, Director, Space Economy, University of Warsaw. For information call 228-2663. Room 201, Geography Building. 3;30 p.m.

Free Lecture Series

Sponsored by Centre for Continuing Education. Positive Alternatives to Layoffs. Dr. Frithjof Bergmann, Philosophy, University of Michigan; Bob Sitter, Vice-President Manufacturing, Whonnock Industries. For information call 228-5238. Lecture Hall #4, IRC. 7:30-9:00 p.m.

THURSDAY, FEB. 25

Free Lecture in Social Work

Speaking Ritualistically in the Systemic Interview. Dr. Joe Blom, Kings College, University of Western Ontario. For information call 228-2576. Lecture Hall A, School of Social Work. 10:00-11:30 a.m.

Medical Grand Rounds

Drug Induced Lung Diseases. Dr. D. Ostrow, Respiratory Medicine, V.G.H. For information call 228-7737. Room G279 Lecture Theatre, Acute Care Unit. 12:00 noon.

UBC Symphony Orchestra

Sponsored by the School of Music. Gerald Stanick, director. Free Admission. For information call 228-3113. Old Auditorium. 12:30 p.m.

Mathematics & Science Education Seminar

Cross-Cultural Comparisons of Learning Styles. Dr. Art More, Educational Psychology and Special Education. For information call 228-5214. Room 1211, Scarfe Building. 12:30 p.m.

Ocean Sciences and Engineering Research Seminar

Modelling the Oceans on Computers. Dr. W.W. Hsieh, Oceanography. For information call 228-5210. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Leon & Thea Koerner Memorial Lecture

The Gorbachev Phenomenon. Professor Miha'ly Vajda, Visiting Fellow, Trent University. for Information call 228-2919. Seminar Room 604, Main Floor, Asian Centre. 3:30 p.m.

History Seminar

The Gorbachev-Phenomenon. Miha'ly Vajda, Budapest. For information call 228-2561. Seminar Room 604, Asian Centre. 3:30 p.m.

Ethnic Studies Colloquium

Chinese Organizations and Ethnicity in North America and Southeast Asia Since 1945: A Comparative Analysis. Professor Ed Wickberg, History. For information call 228-5128 or 228-4256. Penthouse, Buchanan Building. 3:30-5:00 p.m.

Biotechnology Seminar

The Molecular Analysis of Human Genetic Disease. Dr. Roderick R. McInnes, The Hospital for Sick Children, Toronto. For information call 228-4838. Lecture Hall #3, IRC. 4:00 p.m.

Physics Colloquium

Superconducting Super Collider. Dr. P. Carruthers, University of Arizona. For information call 228-3853. Room 201, Hennings Building. 4:00 p.m.

Faculty Concert Series

Sponsored by the School of Music. Robert Silverman & Friends. Information Lecture 7:30 p.m. $7, $3 students & seniors. For information call 228-3113. Recital hall, Music Building, 8:00 p.m.

FRIDAY, FEB. 26

Health Care & Epidemiology Rounds

Refining Long Term Care Placement Through an At Risk Registry for Continuing Care Clients. Ted Bruce, Planner, Continuing Care Division, Vancouver Health Department. For information call 228-2772. Room 253, James Mather Building. 9:00-10:00 a.m.

History Lecture

Social Movements in the Modern World Seen from the Postmodern Condition. Miha'ly Vajda, Budapest. For information call 228-2561. Room A203, Buchanan Building. 12:30 p.m.

Leon & Thea Koerner Memorial Lecture

Social Movements in the Modern World Seen from the Post-Modern Perspective. Professor Miha'ly Vajda, Trent University, Budapest. For information call 228-2919. Room A203, Buchanan Building. 12:30 p.m.

Faculty Recital

Sponsored by the School of Music. Anne Elise Keefer, baroque flute; Darryl Nixon. harpsichord. Free Admission. For information call 228-3113. Recital hall, Music Building. 12:30 p.m.

Canadian Women in the 1990's

Sponsored by Office for Women Students. A Fair Shake for Women: Implications of the New Employment Equity Act. A panel/discussion with Professor L. Smith, Law; Dr. A.J. McClean, Assoc. Vice-President, Academic; Ms. M. Mohan, Employment Equity Consultant. For information call 228-2415. Room B321, Buchanan Building. 12:30-1:30 p.m.

Medical Genetics Seminar

Molecular Genetics of Ceruloplasmin and its Association with Wilson's Disease. Dr. M. Kochinsky, Biochemistry. For information call 228-5311. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak Street, Vancouver. 1:00 p.m.

SATURDAY, FEB. 27

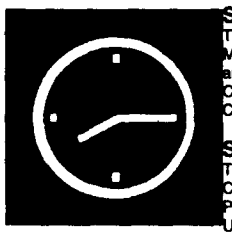
Woman to Woman

Sponsored by The Centre for Continuing Education. Your Health and Happiness - A One Day Program on Contempory Health Issues Presented by the Federation of Medical Women of Canada. $50. For information call 222-5272. Registration Office, Duke hall. 8:30 a.m.-4:30 p.m.

UBC Rugby

UBC vs. Trojans. For information call 228-2531. Thunderbird Stadium. 2:30 p.m.

THE VANCOUVER INSTITUTE



Saturday, Feb. 20
The Outlook for Global Banking. Mr. Donald Fullerton, Chairman and Chief Executive Officer, Canadian Imperial Bank of Commerce.

Saturday, Feb. 27
The Inner Self. Professor Charles Taylor, Department of Political Science, McGill University.

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

NOTICES

UBC Fine Arts Gallery

Now until March 5. Tuesday - Friday, 10 a.m. - 5 p.m., Saturday, noon - 5 p.m. Keeveeok, Awake! Mamnguqsualuk and the Rebirth of Legend at Baker Lake. Main Library. For information call 228-2759.

Application For Graduation

Application for graduation cards have been mailed to students registered in the graduating year of the degree programs: B.A., B.F.A., B.Mus., B.Com., B.Ed., B.P.E., B.R.E. and B.Sc. All students who expect to graduate this MAY (spring), should complete and return both cards to the Registrar's Office NO LATER THAN FEBRUARY 15, 1988. Students in the graduating year of these programs who have not received cards in the mail should check with the Registrar's Office (by phone at 228-4455) that his/her local mailing address is correct.

Students in Applied Science, Graduate Studies or diploma programs should obtain "Application for Graduation" cards from their departments, while those in the remaining degree programs should obtain applications from the Dean's or Director's Office of their Faculty or School. Applications are also available in the Office of the Registrar.

PLEASE NOTE: EVERY STUDENT WHO EXPECTS TO GRADUATE MUST MAKE APPLICATION FOR GRADUATION. ANY STUDENT WHO DOES NOT APPLY IS INELIGIBLE TO GRADUATE.

Faculty Club Exhibition

Now until March 5th. Photographs of the Nicaraguan People by Ben Clifford. Faculty Club. For information call 228-5426.

Student Engineering Competition

February 19-21. Undergraduate students from Manitoba, Saskatchewan, Alberta and B.C. will compete in the Western Engineering Competition. Electrical Engineering, 4th Floor, and Civil & Mechanical Engineering Building. Ground Floor. For information call 228-5010.

Copying in the Libraries?

Save time and money with a UBC Library copy card. $5 cards sold in most libraries; $10, $20 or higher cards in Copy Service, Main or Woodward. Cash/Cheque/departmental requisition. For information call 228-2854.

Badminton Club

Faculty, Staff & Graduate Student Badminton Club meets Tuesdays 8:30-10:30 p.m. and Fridays 7:30-9:30 p.m. (except Feb. 19 & 26) in Gym A of the Robert Osborne Sports Centre. For information call 228-4025 or 731-9966.

Psychology Research Study

Couples, aged 30-60, needed for research on effects of communication on bodily responses. Experiment conducted in UBC Psychology Department. Personal feedback and stress management information provided. For information call James Frankish, 734-2979. Kenny Building.

Biotechnology Seminar

Utilization of Lignocellulose: what contribution can biotechnology make? Professor P.A.M. Broda, Biochemistry and Applied Molecular Biology, University of Manchester, Institute of Science and Technology, England, U.K. Feb. 16 (Lecture Hall #1, IRC), Feb. 18 (Seminar Room #201, Wesbrook), Feb. 23 (Lecture Hall #1, IRC),Feb. 25 (Seminar Room #201, Wesbrook) at 9:30 a.m. For information call 228-4838.

Computing Centre Non-Credit Courses

The Computing Centre is offering a series of free non-credit courses 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).

Centre for Continuing Education Public Forum

Fri., March 18 (7:30-9:30 p.m.), Sat., March 19 (9:30 a.m.-4:30 p.m.). Free Public Forum on The B.C. Debate on the Meech Lake Accord. Senators Lowell Murray, Eugen Forsey, and others. For information call 222-5238. Lecture Hall #2, IRC.

Fitness Appraisal

Physical Education & Recreation, through the John M. Buchanan Fitness and Research Centre, is administering a physical fitness assessment program to students, faculty, staff and the general public. Approx. 1 hour. $25, students $20. For information call 228-3996.

Parents Wanted

For Psychology research project. Parents of children aged 5 to 12 years are wanted for a project studying parenting. Approx. 1 hour. Contact Dr. C. Johnston, Clinical Psychology at 228-6771.

Statistical Consulting and Research Laboratory

SCARL is operated by the Department of Statistics to provide statistical advice to faculty and graduate students working on research problems. For information call 228-4037. Forms for appointments available at Room 210, Ponderosa Annex C.

Language Exchange Program

Exchanging Languages on a One-to-One Basis. For information call 228-5021. International House. Office Hours 9:30 a.m.-4:30 p.m.

Walter Gage Toastmasters

Public speaking and leadership meeting. Guests are welcome to attend, ask questions, and participate. For information call Geoff Lowe at 261-7065. Room 215, SUB.

Student Counselling and Resources Centre

'Students Helping Students' is a service that provides disabled students with assistance in disability-related tasks affecting school. For information call 228-4840.

Nitobe Memorial Garden

Open Monday to Friday 10:00 a.m.-3:00 p.m. Free. Closed weekends.

Botanical Garden

Open daily 10:00 a.m.-3:00 p.m. Free.

UBC Calendar

SUNDAY, FEB. 14
Guiliani Ensemble
Sponsored by the School of Music. Robert Jordan, guitar. Free admission. For information call 228-3113. Recital Hall, Music Building. 8:00 p.m.

MONDAY, FEB. 15
Free Noon-Hour Film
Sponsored by Institute of Asian Research. Sad Song of Yellow Skin. For information call 228-2746. Auditorium, Asian Centre. 12:30 p.m.

Mechanical Engineering Seminar
Topic in Arctic Vessel Design. K. Rea, Graduate Student. Riser Dynamics with Internal Flow and Nutation Damping. M. Irani, Graduate Student. For information call 228-4350. Room 1215, Civil and Mechanical Engineering Building. 3:30 p.m.

Biochemical Discussion Group Seminar
tRNA Gene Control: An Expanded View. Dr. Karen Sprague, Molecular Biology, University of Oregon. For information call 228-3027. Lecture Hall #4, IRC. 3:45 p.m.

Astronomy Seminar
The Distribution of Dark Matter in Galaxies. Dr. G. Lake, University of Washington. For information call 228-4134. Room 260, Geophysics & Astronomy Building. 4:00 p.m.

Asian Studies Seminar
The Serat Jatiswara: Structure & Change in a Javanese Poem, 1600-1930. Timothy E. Behrend, Project Director, The Sono Budoyo Museum, Yogyakarta, Indonesia. For information call 228-3881. Room 604, Asian Centre. 4:30 p.m.

Pharmaceutical Sciences Seminar
Advertising. Mr. Al MacDonald, Director of Marketing Communications, Merck-Frosst Canada Inc. For information call 228-3183. Lecture Hall #1, IRC. 4:30-6:30 p.m.

Classic SubFilms
A Night at the Opera, Starring The Marx Brothers. $2. For information call 228-3697. SUB Theatre, SUB. 7:00 & 9:30 p.m.

TUESDAY, FEB. 16
Language Education Research Colloquium
Writing Development in Grade 1 & 2 Students in Whole Language Programs. Dr. L. Gunderson, Language Education. For information call 228-5232. Room 105, Ponderosa E. 12:00 noon.

Botany Seminar
Studies in Biotechnology: Avenues to Clinically Important Anti-Cancer Drugs. James Kutney, Chemistry. For information call 228-2133. Room 2000, Biological Sciences Building. 12:30 p.m.

Classic SubFilms
A Passage to India. Based on E.M. Forster's Novel. $2. For information call 228-3697. SUB Theatre, SUB. 12:40, 6:30 & 9:30 p.m.

Chemistry Seminar
Probing the Structure, Energetics and Reaction Dynamics of Gaseous Ions. Professor Terry B. McMahon, Chemistry, University of Waterloo. For information call 228-3266. Room 250, Chemistry Building. 1:00 p.m.

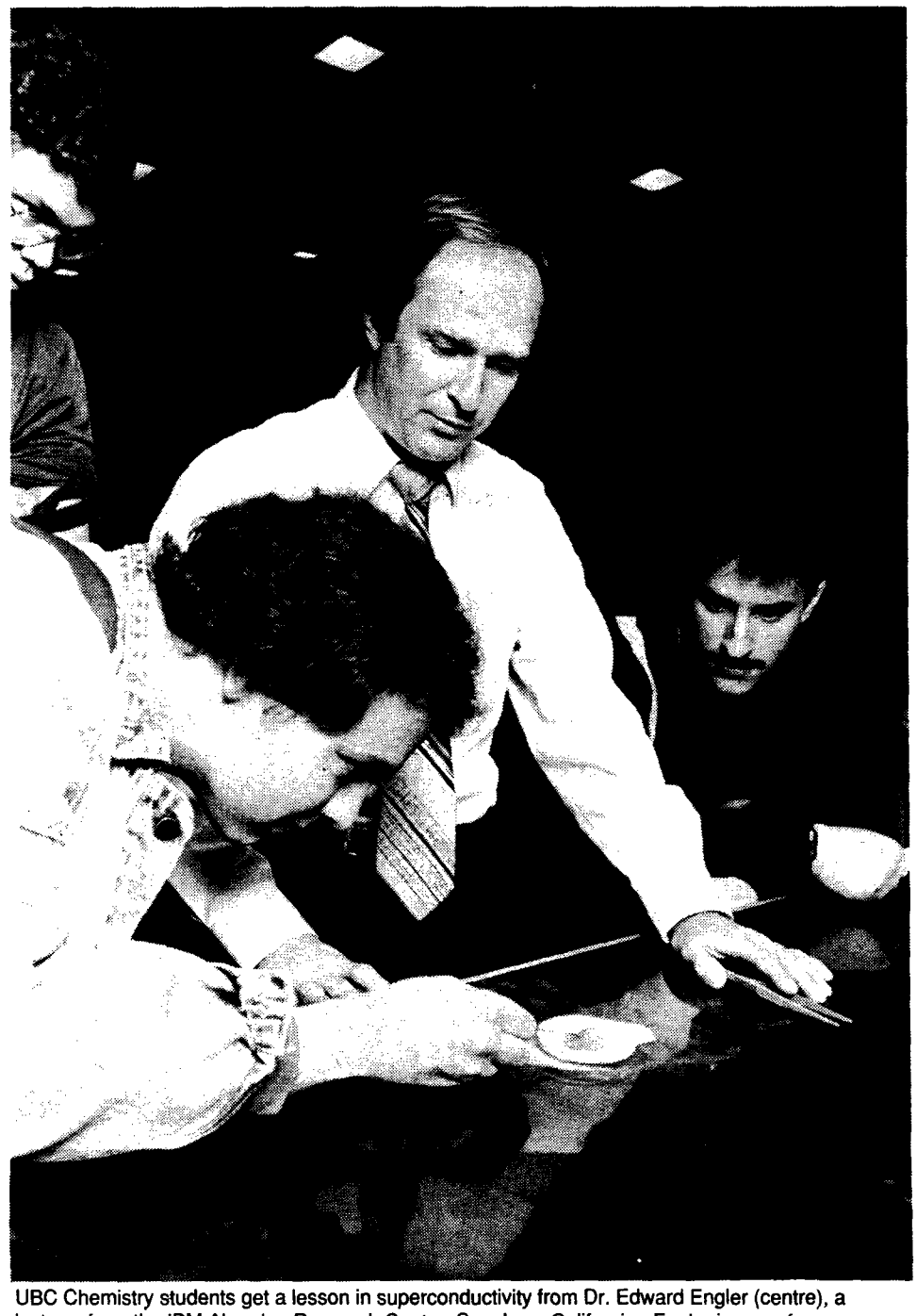
Geological Sciences Seminar
Computers and the Structural Geologist. Dr. H. Charlesworth, University of Alberta. For information call 228-6179. Room 330A, Geological Sciences Centre. 3:30 p.m.

Oceanography Seminar
Biofouling Marine Caulobacters: A Sticking Situation. Dr. J. Smit, Microbiology. For information call 228-5210. Room 1465, Biological Sciences Building. 3:30 p.m.

Lecture Series for Physics Teachers
Particle Physics Experiment. C.E. Waltham. For information call TRIUMF Information Office at 222-1047. Free parking beside TRIUMF buildings. TRIUMF Auditorium. 7:00-9:00 p.m.

UBC Mens's Basketball
UBC vs. Calgary. For information call 228-2531. War Memorial Gym. 7:30 p.m.

WEDNESDAY, FEB 17
Pharmacology & Therapeutics Seminar
The Involvement of Growth Factors in Long-Term Synaptic Potentiation. Dr. B.R. Sastry, Pharmacology & Therapeutics. For information call 228-2575. Room 317, Basic Medical Sciences Building Block C. 12:00 noon.



UBC Chemistry students get a lesson in superconductivity from Dr. Edward Engler (centre), a lecturer from the IBM Almaden Research Centre, San Jose, California. Engler is one of seven scientists from around the world taking part in a series of lectures at UBC.

English Lecture
Dramatic Character in 20th Century Theatre. Professor George Brandt, Drama, University of Bristol, U.K. For information call 228-4254. Room B212, Buchanan Building. 12:30 p.m.

Noon-Hour Series
Sponsored by the School of Music. Brunswick Quartet, string quartet; Arlene Pach, piano. Admission by donation. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

Forestry Seminar Series
Forest Regeneration Research and Outlook at MacMillan Bloedel, Ltd. Mr. B.G. Dunsworth, MacMillan Bloedel Ltd., Nanaimo, B.C. For information call 228-2507. Room 166, MacMillan Building. 12:30-1:30 p.m.

Geography Colloquium
A New Form of Urban Transition in Asia. The Emergence of New Economic Zones. Professor Terry McGee, Geography. For information call 228-2663. Room 201, Geography Building. 3:30 p.m.

Biotechnology Seminar
Regulation of Synthesis of a Bacterial Photosynthetic Apparatus. Dr. Barry L. Marrs, E.I. duPont de Munours & Co., Willmington, Delaware. For information call 228-4838. Lecture Hall #4, IRC. 4:00 p.m.

UBC Men's Basketball
UBC vs. Calgary. For information call 228-2531. War Memorial Gym. 7:30 p.m.

Free Lecture Series
Sponsored by Centre for Continuing Education. Work, Employment and Family Life. Monica Townson, Economic Consultant. For information call 222-5238. Lecture Hall #4, IRC. 7:30-9:00 p.m.

THURSDAY, FEB. 18
Medical Grand Rounds
Frontal Lobe Epilepsy Revisited. Dr. J. Wada, Psychiatry and Neurology. For information call 228-7737. Room G279, Lecture Theatre, Acute Care Unit. 12:00 noon.

Biotechnology Seminar
The Use of Xenopus Oocytes to Probe Synaptic Communication. Dr. Terry P. Snutch, Chemistry & Chemical Engineering, California Institute of Technology. For information call 228-4838. Lecture Hall #3, IRC. 4:00 p.m.

FRIDAY, FEB. 19
UBC Women's Basketball
UBC vs. Saskatchewan. For information call 228-2531. War Memorial Gym. 5:45 p.m.

UBC Men's Basketball
UBC vs. Saskatchewan. For information call 228-2531. War Memorial Gym. 7:30 p.m.

SATURDAY, FEB. 20
4th Annual Western Engineering Competition
A Showcase of Engineering Students' Innovative Designs. Open to the public all day Saturday. For information call 228-6413. Main Floors, Civil & Mechanical Engineering and Electrical Engineering Buildings. 9:00 a.m.-5:30 p.m.

UBC Women's Volleyball
UBC vs. Lethbridge. For information call 228-2531. War Memorial Gym. 1:00 p.m.

UBC Men's Volleyball
UBC vs. Lethbridge. For information call 228-2531. War Memorial Gym. 3:00 p.m.

UBC Women's Basketball
UBC vs. Saskatchewan. For information call 228-2531. War Memorial Gym. 5:45 p.m.

UBC Men's Basketball
UBC vs. Saskatchewan. For information call 228-2531. War Memorial Gym. 7:30 p.m.

SUNDAY, FEB. 21
Japanese Noh Theatre Workshop
Music Workshop. The Hosho School Noh Master Fusataka Homma & the Hosho Noh Theatre Troup from Japan. For information call 228-3881. Asian Centre. 10:30 a.m.-12:30 p.m.

UBC Women's Volleyball
UBC vs. Calgary. For information call 228-2531. War Memorial Gym. 1:00 p.m.

Japanese Noh Theatre Workshop
Demonstration/Performance. The Hosho School Noh Master Fusataka Homma & the Hosho Noh Theatre Troup from Japan. For information call 228-3881. Great Hall, Museum of Anthropology. 2:30-3:30 p.m.

UBC Men's Volleyball
UBC vs. Calgary. For information call 228-2531. War Memorial Gym. 3:00 p.m.

MONDAY, FEB. 22
History Lecture
Deterrents and Reformation: The Punishment of Crime in 18th Century England. Professor J.M. Beattie, History, University of Toronto, Hewitt Bostock Memorial Lecturer. For information call 228-2919. Room D310, Buchanan Building. 12:30 p.m.

Japanese Noh Theatre
The Hosho School Noh Master Fusataka Homma and 15 Actors of the Hosho Noh Theatre Troup from Japan. For information call 228-3881. Asian Centre. 12:30 p.m.

Mechanical Engineering Seminar
Swirling Flow in a Combustion Chamber. A. Riahi, Graduate Student. For information call 228-4350. Room 1215, Civil & Mechanical Engineering Building. 3:30 p.m.

History Seminar
The Administration of Criminal Law in 18th Century England. Professor J.M. Beattie, History, University of Toronto, Hewitt Bostock Memorial Lecturer. For information call 228-2919. Penthouse. Buchanan Building. 3:30-5:30 p.m.

Biochemical Discussion Group Seminar
Regulation of DNA Replication in Somatic Cells: BPVI as a Model System. Dr. Michael Botchan, Molecular Biology, University of California, Berkeley. For information call 228-3027. Lecture Hall #4, IRC. 3:45 p.m.

Astronomy Seminar
In Pursuit of the Stellar Dynamo. Dr. B. Bopp, University of Toledo. For information call 228-4134. Room 260, Geophysics & Astronomy. 4:00 p.m.

Pharmaceutical Sciences Seminar
The Selling Function. Mr. Edward Ting, Regional Sales Manager Boehringer Ingelheim (Canada) Ltd. For information call 228-3183. Lecture Hall #1, IRC. 4:30-6:30 p.m.

Classic SubFilms
Sid & Nancy. $2. For information call 228-3697. SUB Theatre, SUB. 7:00 & 9:30 p.m.

Japanese Noh Play
Hagoromo - Feather Cloak. Hosho Noh Theatre Troup. $10. For information call 228-3881. Vancouver East Cultural Centre. 8:00 p.m.

TUESDAY, FEB. 23
Botany Seminar
Maintenance of Diversity in an Annual Grassland. Harold A. Mooney, Biological Sciences, Stanford University. For information call 228-2133. Room 2000, Biological Sciences Building. 12:30 p.m.

Free Noon-Hour Films
Sponsored by Institute of Asian Research. Korean Painting & Korea's Folk Painting. For information call 228-2746. Auditorium, Asian Centre. 12:30 p.m.

Classic SubFilms
Hamlet, the Laurence Olivier Classic. $2. For information call 228-3697. SUB Theatre, SUB. 12:40, 7:00, & 9:45 p.m.

Chemistry Seminar
Bacterial Antigens and Bacterial Viruses. Professor G.G.S. Dutton, Chemistry. For information call 228-3266. Room 250, Chemistry Building. 1:00 p.m.

Electrical Engineering Seminar
ISDN Basic Access Issues. Professor David Falconer, Systems and Computer Engineering, Carleton University. For information call 228-2866. Room 402, Electrical Engineering Building. 1:30 p.m.

Cecil & Ida Green Visiting Professor
Philosophy Seminar on Theories of Meaning. Professor Charles Taylor, Political Science, McGill University, Montreal. For information call 228-5675. Room A104, Buchanan Building. 3:30 p.m.

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UBC Reports is published every second Thursday by UBC Community Relations 6328 Memorial Road, Vancouver, B.C. V6T 1W5, Telephone 228-3131.
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Calendar Deadlines

For events in the period February 28 to March 12, notices must be submitted on proper Calendar forms no later than 4 p.m. on Wednesday, February 17 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.