

UBC



The University of British Columbia
Vancouver, British Columbia

Volume 36, Number 18
October 18, 1990



Photo by Larry Scherban

UBC's 1990 Arts '20 Relay attracted 198 teams of runners who covered a 10.6 kilometre course through the streets of Vancouver retracing the steps of the Great Trek. Top honors went to the Tri-Club.

Take lead in racism fight, universities are urged

By GAVIN WILSON

UBC and other universities should take a leadership role in fighting racism in Canada, said Kogila Adam-Moodley, the chair of a newly established campus committee on race relations.

Adam-Moodley, director of the Multicultural Liaison Office, heads the committee of faculty, staff and students created to look into the problem of racism on campus and advise President David Strangway on policy responses.

Strangway initiated the committee after racist and homophobic remarks appeared in an engineering student newsletter earlier this year. Since then, campus radio station CiTR has been

involved in a controversy over the broadcast of song lyrics.

"Recent incidents on campus have alerted us to the need to have some kind of policy or guidelines about what is appropriate and what is not," said Adam-Moodley.

"Racism at UBC can be expected to be less than it is elsewhere in society. We expect better behavior because we are a special community united in sharing a common pursuit of knowledge. We are supposed to be rational people, so it is all the more disturbing when racist outbreaks become evident," she said.

"If we can't develop sensitive, sound interpersonal relationships with one another, or fair working procedures, it bodes ill for the wider society."

The committee will invite students, faculty and staff to share their views on existing conditions that create or hinder the development of a fair and equitable climate on campus.

"At our first meeting we reached a consensus that we ought to consult very broadly on campus," said Adam-Moodley.

The committee will look for ways to foster awareness among students, faculty and staff about conditions that contribute to systemic and overt racial discrimination in the university community.

They will make recommendations on potential educational programs that will make all members of the university community aware of the history of Canada as a multicultural society and

the processes by which discrimination functions.

The committee will also recommend university policies and procedures to address racial discrimination.

"We have recognized the need to look at what other institutions have done," said Adam-Moodley. "A number of Canadian universities have already developed policies. One such attempt is the University of Alberta's Commission for Equality and Respect on Campus, the spirit of which we would like to see emerge from our deliberations."

"We will also use existing research in the field of race relations to orient our practices," she said.

She said the committee's decision to concentrate on race relations in no way reflects a view that other forms of discrimination are of secondary importance. The committee's underlying tenet is that all members of the university community have the right to freedom from discrimination, regardless of race, gender or sexual orientation, Adam-Moodley said.

Committee members were chosen to represent a broad cross-section of the campus; some have special expertise in the area of race relations.

Invited to join the committee were:



Adam-Moodley

Women showing renewed interest in engineering

By GAVIN WILSON

Diane Churchill was one of the millions of Canadians who recoiled with horror at the murders of 14 female engineering students at the University of Montreal last year.

She also had a second, unexpected reaction. She decided that engineering would make a good career.

"It happened at a time I was thinking about a career change," said the 35-year-old former nurse. "It didn't deter me at all. In fact, it almost had the opposite effect."

Churchill wasn't alone. The tragic events of last December seem to have sparked a renewed interest in the profession among women.

In Churchill's graduate-level program, environmental engineering, six of this year's 13 new students are female.

"We usually have one or two women enter the program each year, but we've never seen these numbers before," said Donald Mavinic, a Civil Engineering professor and Environmental Group head.

"Another striking thing is the diversity of backgrounds they are bringing to the program: chemistry, biochemistry, molecular genetics, microbiology," he said.

William Oldham, head of Civil Engineering, said this diversity has the added bonus of bringing more women into the faculty. The trend will alter perspectives within the profession — a change Oldham feels is crucial to engineering.

"It's very gratifying to see. People who come to us from other disciplines bring a new dimension to what we do."

Noting that there is now more interest in high school science courses among young women, Oldham said: "I expect to see the trend increasing. There's no way of reversing it now. The whole image of engineering is changing and I think the change is essential."

Mavinic said another two or three women have been accepted to begin studies in January and three more have been accepted for September, 1991.

Female enrolment is up in the undergraduate engineering programs as well. Women now account for 15 per cent of first-year students, compared with about eight per cent in third and fourth years.

Enrolment is also up at the University of Montreal's l'Ecole Polytechnique where, despite the tragic slayings, 23 per cent of those applying to engineering this year were female.

Environmental engineering at UBC may be attractive to women because it is one of the "soft" science programs offered in the faculty, Mavinic said.

Said Churchill: "I'm a nurturing person. I feel that I'm accountable for what I do and how it affects people. I think I can apply those things to environmental engineering."

Another female environmental engineering student at UBC, Leslie Gomm, said women can bring a more compassionate nature and broader range of thinking to environmental engineering, which deals with problems of water quality, waste water treatment and toxic hazard management.

After graduating as an engineer from Queen's University in 1985, Gomm worked in the petroleum and pulp and paper industries.

"I enjoy the outdoors, but often I've used my knowledge in projects that have taken something away from nature. I want to put something back," she said.

Gomm, 27, believes the Montreal killings turned the public spotlight on women in engineering and provoked a great deal of discussion within the profession.

"I wonder if it didn't infuriate enough women who said, 'I'm not going to let this scare me away,'" she said.

Nothing has stopped Gomm from achieving her life-long goal of becoming an engineer.

"I come from an engineering family. My dad is an engineer, so is my brother. But in high school, the counsellors told me to go into physiotherapy," she said. "I didn't listen."

One of 15 women in her undergraduate chemical engineering class of 63 students, Gomm said she was treated fairly by classmates and instructors, although she was "disgusted" by some of the antics of some engineering students.

Gomm's experiences in the male-dominated workplace have also been positive, despite occasional examples

See TREATMENT on Page 2

Forestry awarded \$2 million

By CONNIE FILLETTI

UBC's Faculty of Forestry has been awarded \$2 million over the next five years toward the establishment of an Industrial Research Chair in Forest Products Biotechnology.

A major goal of the program is to improve the quality of pulp and paper by using enzymes and microorganisms to facilitate the pulping process. The value of pulp and paper products would be enhanced while combatting environmental problems associated with current pulping processes. The chair will also address opportunities in the solid wood sector.

"Wood is normally preserved by putting chemicals into it," explained John Saddler, senior appointment to the chair. "We want to complement the mechanical processing of wood with more benign biological systems."

Fungi that eat off of other fungi is one system that Saddler and his colleague, Colette Breuil, will be investigating. They will also explore the possible use of materials produced by fungi which are toxic only to other fungi. In

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Inside

SUMMERTOURS POPULAR: More than 4,300 visitors toured campus from May through August as part of an expanded program. *Page 3*

SEASONAL AFFECTIVE DISORDERS: A new light system is being tested for the treatment of SAD. *Page 6*

GOLD MEDALS: David Dolphin and William Unruh have been awarded gold medals by the Science Council of B.C. *Page 8*

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Campaign volunteers carry message to faculty, staff

By CONNIE FILLETTI

More than 120 UBC faculty and staff volunteers are carrying United Way's message of help and hope throughout the campus community this month.

They are part of a record 2,250 campaign volunteers trained by the United Way of the Lower Mainland so far this year.

The efforts of UBC's volunteers are showing in the \$119,000 raised to date. The goal of the 1990 campus campaign has been set at \$240,000.

"I'm confident we will reach our goal," said Dean Jim Richards, chair of the campus campaign. "Its achievement will reflect the dedicated work of volunteers throughout the university to personalize the campaign, to answer questions, and to make sure that everyone is aware of the benefits and importance of United Way giving to our community."

Angela Henderson, an assistant professor of Nursing at UBC, is a first-time volunteer for the campus campaign. Her long standing involvement with a North Shore transition house has given her a greater understanding of the importance of agencies like the United Way, and the work they do.

"As a volunteer counsellor with women and children in crisis, I am

It Brings Out The Best
In All Of Us.



UBC - United Way
"It's Yours"

well aware of the real value each contribution makes to people's lives. I have seen the difference first hand," Henderson said.

She added that by the time women

Oktoberfest Oct. 19

UBC's Plant Operations department will be presenting an Oktoberfest Oct. 19 from 11:30 a.m. to 2:30 p.m. in support of the campus United Way campaign.

Refreshments and live entertainment, including authentic German music performed by members of the various trades in Plant Operations, can be enjoyed for a minimum donation to the United Way.

at the transition house are ready to leave, they express interest in becoming volunteers at the facility themselves.

Gayle Smith has been a UBC staff volunteer since 1987. Her efforts for the campus campaign have increased every year since.

"I saw other volunteers working long, hard hours," Smith said. "I appreciated their commitment and resolved to do my share."

As a volunteer, Smith feels that providing information about the many and varied services provided by United Way funded agencies is important in encouraging people's support.

Volunteer training for the UBC United Way campaign takes place at on-site workshops. Anyone interested in more information can call 228-3105.

Improving quality expensive

Continued from Page 1

addition, Saddler and Breuil plan to work with parasitic fungi known to eat decay and stain-causing microorganisms as another biological system.

The use of biological catalysts and chemicals has been shown to work but the technology is slower and more expensive than the traditional methods currently in use, Saddler added. Both he and Breuil hope their research will lead to ways of making processes such as bleaching of paper using non-toxic sources more economical and efficient.

"We now have the opportunity to work on the structural integrity and modification of wood products using the many tools available through biotechnology" said Saddler. "This should allow us to develop higher value products from lumber and pulp using more environmentally benign processes and technology."

Saddler and Breuil agree that although longer lasting wood products are more attractive to consumers and are competitive in the marketplace, improving the quality of the pulp and

the efficiency of the pulping process, or the use of more specific wood preservatives, is still an expensive enterprise.

"The cost is high so nobody is willing to do it, even though there are recorded losses of over \$50 million each year in Canada as a result of stain or decay of wood products," Saddler said.

"We hope to use tools, such as immunology which are currently used in the health care area to detect blood disorders or infections such as AIDS, to also diagnose changes in pulp or the efficacy of alternative wood preservatives. Our primary role is knowledge and we can use that knowledge to get the cost of biology based processes and the efficiency of traditional processes down."

Another major component of the five-year program will be to examine the microbiology of the cultures used to treat pulp effluents.

Although progress has been made in the design and manufacture of reactors for treating pulp effluents, there is a lack of knowledge about what happens in them, Saddler said.

"These reactors contain an ill-defined soup of different microorganisms. We need to look at what's in the soup and soup it up by determining which of the ingredients really do the job," he explained.

Saddler and Breuil will focus on the treatment of bleach plant sewage which has been a prime concern to both environmentalists and industry.

Although the research is based in the Faculty of Forestry, Saddler and Breuil will be adopting an interdisciplinary approach and plan to recruit staff and students with training in areas such as microbiology, immunology, chemical engineering and chemistry.

The chair also has a training component whereby a group of post-doc-

torate and graduate students will be involved in the program so that the technology they learn can eventually be transferred to the Canadian forest industries.

Saddler was an advisor to the Science Directorate of Forestry Canada before his UBC appointment. Breuil was the Group Leader for the Biotechnology Department of Forintek Canada from 1987 until assuming her position with the university. Both scientists were appointed to the Industrial Chair of Forest Products Biotechnology Sept. 1.

The chair is endowed by the Natural Sciences and Engineering Research Council and several industrial sponsors including MacMillan Bloedel, Weyerhaeuser Canada, Novo Nordisk, Forintek Canada and the Pulp and Paper Research Institute of Canada. UBC has also contributed to the chair as part of its fundraising campaign.

Treatment fair, engineer says

Continued from Page 1

of sexism.

She has received letters addressed to "Mr. Leslie Gomm" and been asked at meetings if she was there to take minutes. But on the whole, she feels she's been treated equitably, noting she was chosen over eight men for a prestigious job on a Norwegian oil rig project.

Churchill said she is extremely pleased with the warm and enthusiastic welcome she has received in engineering, but admits she is "a little scared" about the attitudes she may find in the workplace after graduation.

"After working for years as a subordinate to physicians, who are generally men, I'm interested in working with men as colleagues, in an equal relationship," she said.

Earthquake advice featured during Health and Safety Week

Would you know what to do if an earthquake struck campus? Were you aware that how you sit at your desk can make you ill?

The answers to these and many other questions will be addressed by a series of noon-hour speakers during UBC's Health and Safety Week, Nov. 5 to 8.

The week is an annual event organized by the University Health and Safety Committee and Occupational Health and Safety.

Earthquake preparedness will be discussed by Peter Byrne, a professor in Civil Engineering, and Mel Blaney, Director of Emergency Programs for the city of Vancouver. They speak on Monday, Nov. 5 in SUB Room 205.

David Bell, of Occupational Health and Safety, speaks on office ergonomics, the study of efficiency of people in their work environment, in SUB Room 209 on Tuesday, Nov. 6.

Constable Bernie Smandych of the University Endowment Lands RCMP discusses personal safety on campus on Wednesday, Nov. 7 in SUB Room 212.

Barb Lepsoe and Robert Asher of the Bicycling Association of B.C. speak on bicycle safety on Thursday, Nov. 8 in SUB Room 212.

All lectures are from 12:30 p.m. to 1:30 p.m.

Also planned is the Safety Show, featuring displays by Student Health Services, the fire department, campus unions and others in the SUB concourse, Nov. 5 and 6.

We admit it, we're showoffs!

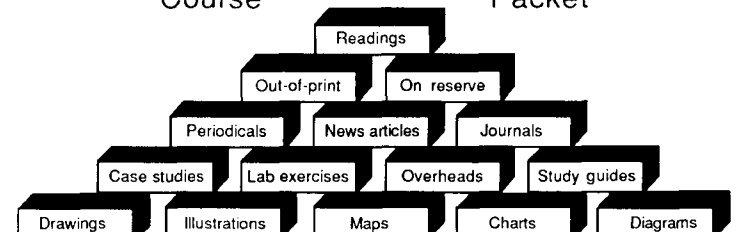
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Racism committee

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Forestry Dean Clark Binkley, Winnie Cheung, director of International House, Sociology Professor Gillian Creese, students Jennie Jack and Wendy King, Education Professor John Kehoe, Science Dean Barry McBride, Applied Science Professor Sidney Mindess, Mary Riseborough, director of Student Housing and Conferences, Law Professor Lynn Smith, Registrar Richard Spencer, K.D. Srivastava, Vice-President, Student and Academic Services, Anne Stanton of Plant Operations, Education Professor Charles Ungerleider and Catherine Vertesi of Commerce and Business Administration.



Guide Lisa Murray (standing far right) answers questions about UBC from a group of Vancouver students.

Summer tours popular way to explore campus

By RON BURKE

Second World War veterans, inquisitive toddlers, foreign visitors, conference delegates: They are some of the more than 4,300 curious people who explored UBC during the university's Summer Campus Tour Program.

The May-through-August service was expanded this year, as part of the Discover Summer celebrations, through additional funding from the UBC 75th Anniversary Committee.

Four guides led informative walking tours of the campus, seven days a week. The additional guides enabled the program to provide specialized tours for children, seniors, the disabled and other groups.

"Probably the most popular feature of the tours is the human face they put on UBC," said summer tour program coordinator Alexa Bold, a second-year Law student at UBC.

Seven versions of the tour were offered during the summer, from the two-hour, full campus route, to the VIP tours, which normally concentrate on teaching and research facilities. Also offered were English as a Second Language tours, they were geared toward foreign student groups. The ESL tours focused on visual attractions and were designed to encourage participants to develop their language skills by asking questions about the campus.

Specialized tours for the disabled were adapted to the needs and interests of the people involved. Sometimes the tours followed an abbreviated route, or

the guides would ride along in the group's vehicle.

The tour program joined forces with the Alma Mater Society this year to operate a Summer Tours and Information outlet on the main concourse of the Student Union Building.

An AMS information officer and the tour guides staffed a desk and answered questions about campus facilities and services. They also informed visitors about concerts, exhibits and other Discover Summer activities.

At the start of each tour, the guides gave participants literature about publicly accessible attractions on campus.

"People love to ask questions about the history of the campus," explained Bold. "Many participants are amazed at the range of UBC facilities and programs open to the public — and kids love the dinosaur skeleton in the Geological Museum."

The tour program has rapidly grown in popularity every year since its inception in 1985. The 1990 summer program operated close to capacity levels, giving a total of 778 tours from May 1 through Aug. 31.

The number of tour participants this year, 4,332, represents an increase of 19% over last year's total and 256% over 1985.

Fifty-nine per cent of those taking tours described themselves as "visitors to campus" — members of the community, as opposed to faculty, staff, students or conference delegates. This reflects the university's emphasis on promoting awareness of the campus as

a public resource for all residents of B.C.

UBC's Mission Statement stresses the importance of public understanding and support of the university. The campus tour program has proved to be a popular vehicle for introducing members of the community to publicly accessible programs, facilities and services on campus.

The Summer Tour Program was publicized in several ways this year: Posters and flyers were distributed to community centres and schools throughout the Lower Mainland, to school board offices and Tourism BC, Travel Information centres across the province, and to many campus locations. Public service announcements were also sent to all Lower Mainland media outlets.

This year, the summer tour program worked with the Theatre Department to promote its children's outdoor theatre program. Performances outside SUB were scheduled at noon to coincide with the conclusion of morning tours.

The summer tour program also cross-promoted other university facilities offering tours at such attractions as TRIUMF, the Dairy Barn, the Main Library, the Museum of Anthropology and the Botanical Garden.

The summer tours also help to publicize special events, such as this year's very successful UBC SUPER Sale, which drew about 5,000 people to campus for a one-day recycling fair.

The 1991 summer tour program starts up again on May 1 and is expected to build on this year's success.

75TH PROJECTS CONTINUE

By RON BURKE

Sunday, Sept. 30 may have marked the university's official 75th birthday, but there are still many anniversary projects yet to come in 1990.

Religious Tolerance and Intolerance in a Multicultural Society is the title of a symposium in the Buchanan Penthouse from Wednesday, Oct. 24 to Friday, Oct. 26. The Department of Religious Studies is the sponsor.

The symposium will examine the issue of religious tolerance. How do religious groups treat those outside the group, and vice-versa? History shows that the answers range from indifference to outright rejection and persecution.

Admission is free and members of the public are welcome. The symposium will run from 9 a.m. to 5 p.m. all three days.

In addition to helping mark the university's 75th anniversary, the symposium is held in memory of N. Keith Clifford, a professor in the Department of Religious Studies for 20 years.

75TH LECTURES

A lecture series from the Centre for Continuing Education examines politics, the arts, science and society during the last 75 years.

On Wednesday, Oct. 31, David Vogt, curator of the Department of Geophysics and Astronomy, looks at Albert Einstein's theories of the universe in 1915 and how those theories have evolved since then.

Vogt explains why Einstein's theories are interesting and important today. The presentation is geared for a general audience.

The talks begin at noon on successive Wednesdays in the Robson Square Conference Centre, 800 Robson St. The last lecture is on Nov. 14. Admission is free and no pre-registration is required.

HISTORY OF WOMEN AT UBC

"It's Yours" is the popular interpretation of UBC's Tuam Est motto, but another is "It's Up To You." The latter reading serves as the title for a 75th anniversary book on women at UBC in the early years. The book details the experiences of women dur-

ing the university's formative years and the struggles to expand the scope and nature of various programs to make them more relevant for women.

The book was written by Lee Stewart and published by UBC Press and the Academic Women's Association.

NATIVE WRITERS

First Nations writers are the focus of a special 75th anniversary double issue of the prestigious journal Canadian Literature, published by UBC.

Stories, poems and articles by contemporary Native writers are featured in the issue, along with related pieces by various academics.

Editor and UBC English Professor William New says the collection recognizes the importance of Native literature in Canada.

"Most people aren't aware of the wealth and range of Native writing available — from the nineteenth century tale-tellers to the novelists and dramatists of the present day," explained New.

A condensed version of the journal has been published in book form, with proceeds going to the First Nations House of Learning. The journal is available at the UBC Bookstore and the Canadian Literature office in Ponderosa Annex B, while the book is available from the Bookstore and UBC Press.

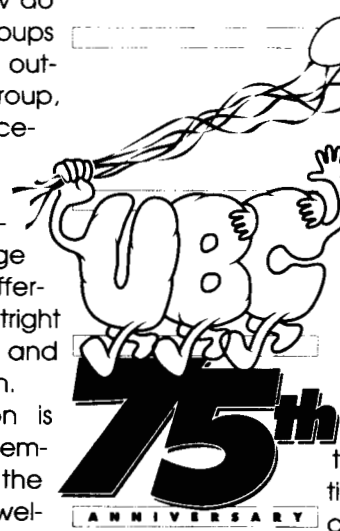
CREATIVE WRITING ANTHOLOGY

The Department of Creative Writing celebrates both UBC's 75th anniversary and its own 25th with the publication of Words We Call Home: Celebrating Creative Writing at UBC.

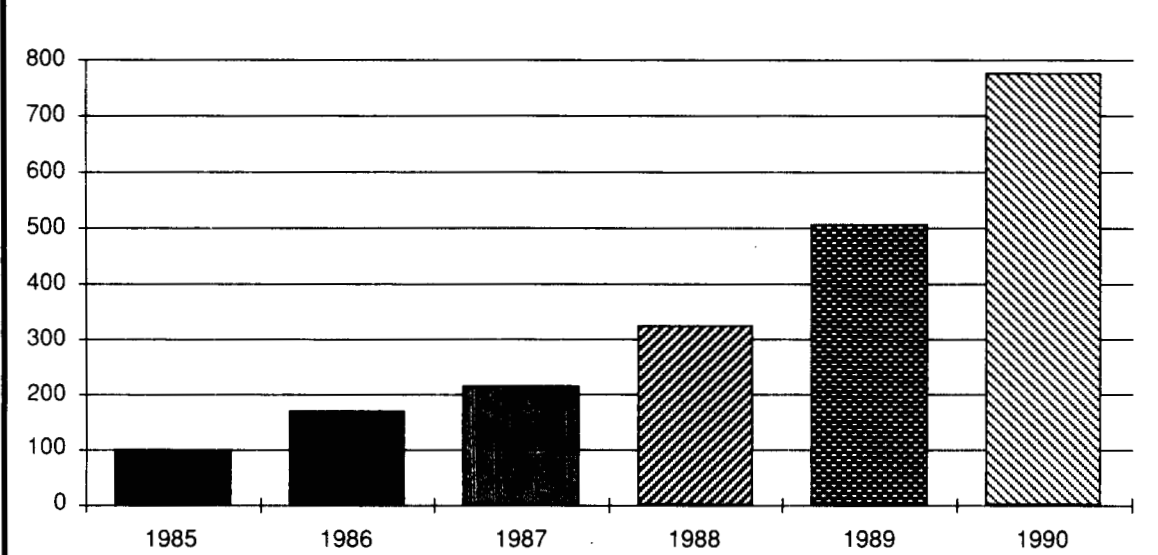
The anthology features works by former students in the department. A book launch, including readings, is set for Saturday, Oct. 27 in the Granville Island Room, 1502 Duranleau St., Granville Island, starting at 7 p.m.

Tickets are \$10 (\$9 for students) and available from the UBC Bookstore. For more information call 681-8400. These are just some of the 75th anniversary projects still to come in 1990.

There will be information on other projects in future columns.



TOTAL TOURS 1985-1990






October 21 – November 3

MONDAY, OCT. 22

Cancer Research Seminar

 Monday Noon-Hour Series: Photosensitizer Delivery And Distribution In Tumor Tissues. Dr. Mladen Korbek, Cancer Imaging Unit. B.C.C.R.C. Lecture Theatre, 601 W. 10th from 12-1pm. Call 877-6010.

Biochemistry Seminar

Retinal Regeneration In Vivo Induced By Growth Factor. Dean M.J. Hollenberg, Medicine, UBC. IRC 4 at 3:45pm. Call 228-2142.

Pediatrics Research Seminar Series

Dilatable Pulmonary Artery Band Prostheses; Physical Properties, Fatigue Testing, Ultimate Failure Mode, Factors Of Safety, Human Clinical Trials. Dr. Dennis Vince, Cardiology, Pediatrics, UBC. University Hospital D-308, Shaughnessy Site at 12 noon. Call 875-2492.

United Church Campus Ministry Lecture

Free Speech In A Pluralistic Society: What Is Hate Literature? Dr. Bryan Teixeira, Langara. Sub 205 at 12:30pm. Call 224-3722.

Optics Seminar

Optics Technologies. Representatives From The National Optics Institute, Que. Recent developments in optics technology. Reservations required. Grad Student Ctr. Ballroom from 9am-5pm. Call 224-8594.

Astronomy Seminar

Doppler Imaging Of Spotted Stars. Dr. Arnie Hatzes, Astronomy, U. of Texas, Austin, TX. Coffee available from 3:30pm. Geophysics/Astronomy 260 at 4pm. Call H. Richer 228-4134/2267.

Psychology Colloquium

Reasoning By Model. Dr. Phillip Johnson-Laird, Princeton. Kenny 2510 at 4pm. Call 228-2755.

Applied Mathematics Seminar

Projected Methods For Differential-Algebraic Problems. Dr. Uri Ascher, Computer Science, UBC. Math 229 at 3:45pm. Call 228-4584.

UBC Mixed Chamber Ensembles

Free admission. Music Recital Hall at 12:30pm. Call 228-3113.

TUESDAY, OCT. 23

Psychiatry Lecture

The Psychotherapy Of Divorce. Dr. Judith Gold, Psychiatry, Dalhousie U. Detwiller Pavilion 2NAB from 8:30-9:30am. Call 228-7325.

UBC Reports is the faculty and staff newspaper of the University of British Columbia. It is published every second Thursday by the UBC Community Relations Office, 6328 Memorial Rd., Vancouver, B.C., V6T 1W5. Telephone 228-3131.

Advertising inquiries: 228-4775. Director: Margaret Nevin Manager: Steve Crombie Contributors: Connie Filletti, Paula Martin and Gavin Wilson.



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CALENDAR DEADLINES

For events in the period Nov. 4 to Nov. 17 notices must be submitted by UBC faculty or staff on proper Calendar forms no later than noon on Wednesday, Oct. 24 to the Community Relations Office, 6328 Memorial Rd., Room 207, Old Administration Building. For more information call 228-3131. The next edition of UBC Reports will be published Nov. 1. Notices exceeding 35 words may be edited.

Neuroscience Discussion Group

How To Get Rats Lost In The Morris Water Maze: LTP, Hippocampus and Valium! Dr. Ron Skelton, Psychology, U. Vic. Acute Care Unit G-279 at 4pm. Call 228-2330.

History Lecture

 The First World War: Rescuing And Interpreting Evidence Of Personal Experience. Peter Liddle, Keeper of the Liddle Collection, Edward Boyle Library, Leeds U. Main Library, N. Wing 835 at 11:30am. Call 228-5166.

Botany Seminar

Evolution Of Dioecy In Hawaiian Schiedea (Caryophyllaceae). Dr. Stephen G. Weller, Ecology/Evolutionary Biology, U. of California, Irvine. Biosciences 2000 at 12:30pm. Call 228-2133.

Oceanography Seminar

Residence Time Of Deep Water In The Black Sea. Jim Murray, U. Washington, School of Oceanography. Biosciences 1465 at 3:30pm. Call 228-2317.


Medical Genetics Seminar

Molecular Genetics Of Leishmania. Dr. W. Rob McMaster, Medical Genetics, UBC. Coffee available at 8:15am. Hennings (Physics) 202 at 8:30am. Call 228-5311.

Dow Lecture.

Ultramicroelectrodes. Dr. Mark Wightman, Chemistry, U. of N. Carolina. Refreshments served from 12:40pm. Chemistry B-250 at 1pm. Call 228-3266.

Robert Bateman Autographing

 Robert Bateman will be signing copies of "Robert Bateman: An Artist in Nature" (\$60 each). Bookstore from 12 - 1:30pm. Call 228-4741.

WEDNESDAY, OCT. 24

Classics/President's Lectures Committee

Lecture With Slides. Hephaestus the Olympian. Prof. John Grant, Chairman, Classics, U. of Toronto. Lasserre 102 at 12:30pm. Call 228-2889.

Religious Studies Lecture

Religious Tolerance, Intolerance and Idolatry. Edward T. Scott, Murrin visiting Prof./former Moderator World Council of Churches. Buchanan A-104 at 12:30pm. Call 222-2515.

Germanic Studies Lecture

Die DDR-Prose Der 80er Jahre. Dr. Klaus Hammer, Humboldt U., Berlin. Buchanan Penthouse at 12:30pm. Call 228-6403.

Physiology/Zoology Seminar Series

The Biochemical And Molecular Pathology Of Genetic Disorders Of Cholesterol Esterification. Dr. Haydn Pritchard, Pathology, Shaughnessy. IRC Lec. Theatre 3 at 3:30pm. Call 228-4224.

Neurosciences Discussion Group

Stimulated Release Of Dopamine In The Caudate Nucleus And Nucleus Accumbens. Dr. Mark Wightman, Chemistry, U. of N. Carolina, Chapel Hill. Kenny Psych Lounge 2510 at 9am. Call 228-2330.

Economics


Departmental Seminar
Statistical Inference Theory For Measures Of Complexity In Chaos Theory And Non-linear Science. William A. Brock, Economics, U. of Wisconsin, Madison. Host is Prof. James Nason. Brock Hall 351 from 4-5:30pm. Call 228-2876.

Wednesday Noon-Hour Concert Series

Miranda Wong, piano. Admission \$2. Music Recital Hall at 12:30pm. Call 228-3113.

THURSDAY, OCT. 25

Asian Research Centre China/Korea Seminar

 Rural Nightmare In Mo Yan's 1980's Fiction. Prof. Michael Duke, Asian Studies, UBC. Paper available prior to seminar from Asian Studies. Asian Centre 604 at 3:30pm. Call 228-3881.

Planning Lecture Series

Guest Lecture. A Reporter's View Of Civic Politics. Jamie Lamb, columnist, The Vancouver Sun. Lasserre 105 at 12:30pm. Call 228-3276.

Religious Studies Public Lecture

The UN Declaration on the Elimination of All Forms of Intolerance Based on Religion or Belief: Its Potential for a Multicultural Society. Professor David Morrison, Religious Studies, University of P.E.I. Buchanan A-202 at 12:30pm. Call 228-2515.

History Lecture

Rediscovering America: John Locke And Dispossession Of Indian Peoples. James Tully, Philosophy/Political Science, McGill U., Buchanan A-106 at 12:30pm. Call 228-5166.

History Seminar

Pufendorf: The First Modern Political Philosopher. James Tully, Philosophy/Political Science, McGill U., Buchanan Tower Lounge 1299 at 4pm. Call 228-5166.

1990 Fall Colloquium Series

Modal Attributes. Dick Robinson/Mark Dickson, Philosophy. Buchanan D-336 at 12:30pm. Call 228-3292.

Dal Grauer Memorial Lectures

Casualty, Chaos, Explanation and Prediction In Economics and Finance. William A. Brock, Economics, U. Wisconsin, Madison. Host: Prof. Erwin Diewert. Buchanan A-100 at 12:30pm. Call 228-2876.

Dal Grauer Memorial Lectures

Is The Stock Market Characterized By Deterministic Chaos? William A. Brock, Economics, U. Wisconsin, Madison. Hennings 201 at 4pm. Call 228-6709.

Co-op Education Information Meeting

International Association For The Exchange Of Students For Technical Experience. For students of Engineering/Sciences/related fields interested in working overseas with IAESTE. Woodward IRC 6 from 12:30-1:30pm. Call 228-6271.

Vancouver Writer's Festival Reading

Reading From New Novel "Wildlife". Richard Ford, American Author. Tix available Bookstore/Door. Admission \$7; \$5 students. Freddy Wood Theatre at

12:30pm. Call 228-2514 or Writers' Festival.

Forestry Seminar

Implications Of Sustainable Development In Forest Sector. Prof. Les Reed, Forest Resources Mgmt., Forestry. Admission free. MacMillan 166 from 12:30-1:30pm. Call 228-2507.

Geological Sciences Visiting Speakers Seminar

The Pinchi Lake Hg Belt: Upper Levels Of A Motherload-Type System. Dr. George Albino, Corona Corporation. G.L.S.C. 330-A from 12:30pm-1:30pm. Call 228-4525.

Pharmacology Seminar


Release Of Noradrenaline By A Tropane Alkaloid. Dr. Vladimir Palaty, Anatomy, Fac. Medicine. Friedman (Anatomy) Hall B from 11:30-12:30pm. Call 228-2575.

UBC Jazz Ensembles

Free admission. Music Recital Hall at 12:30pm. Call 228-3113.

FRIDAY, OCT. 26


Pediatrics Grand Rounds

 The Adolescent Employment Readiness Centre. Dr. Patience White, M.D., Chairman, Rheumatology, Assoc. Prof. Paed. Medicine, Director Adolescent Employment Centre., Washington, D.C. G.F. Strong Rehab. Centre., Auditorium, 26th and Laurel St. at 9am. Call 875-2118.

Economics Departmental Seminar

A Young Person's Guide To The Economics Profession. Daniel Hamermesh, Michigan State U. Host: Prof. W. Craig Riddell. Buchanan Tower 910 at 12:15pm. Call 228-2876.

Economics Departmental Seminar

 The Dynamics Of Labour Demand. Daniel Hamermesh, Michigan State U. Host: Prof. W. Craig Riddell. Brock Hall 351 from 4-5:30pm. Call 228-2876.


Fisheries and Aquatic Sciences Seminar Series

Design Of A Very Large Experiment For The Assessment Of Effects Of Fishing On The Great Barrier Reef. Carl Walters, UBC. Biosciences 2361 at 3:30pm. Call 228-2731.

Chemical Engineering Weekly Seminar

Electrochemically Mediated Oxygen Bleaching Of Pulp With Ferri/Ferrocyanide Redox Couple. Y-S. Perng, Grad. Student. Chem. Eng. 206 at 3:30pm. Call 228-3238.

Physics Colloquium

 Is The Stock Market Characterized By Deterministic Chaos? Wm. A. Brock, W.F. Vilas Research Professor of Economics, U. of Wisconsin, Madison. Hennings 201 at 4pm. Call 228-3853.

UBC Stage Band

Free admission. Music Recital Hall at 12:30pm. Call 228-3113.

SATURDAY, OCT. 27

THE VANCOUVER INSTITUTE



Butterflies And Business Cycles: Is Economic Turbulence Like Nature's Turbulence? Prof. William A. Brock, Economics, U. of Wisconsin, Madison, Dal Grauer Memorial Lecture. IRC #2 at 8:15pm. Call 228-5675.

25th Anniversary of UBC Creative Writing

Words We Call Home. Various writers. A Literary reading, book launch, benefit and party. Tix \$10. Proceeds go to the Earle Birney Scholarship Fund. Granville Island Rm, 1502 Duranleau St. at 8pm. Call Vcr International Writers Festival 681-8400.

Band Festival Program

Pacific Symphonic Wind Ensemble. David Branter, director. Free admission. Old Auditorium at 12:30pm. Call 228-3113.

Band Festival Program

UBC Symphonic Wind Ensemble. Martin Berinbaum, director. Free admission. Old Auditorium at 7:30pm. Call 228-3113.

SUNDAY, OCT. 28

Band Festival Program

High School Honour Band. Martin Berinbaum, director. Free admission. Old Auditorium at 1:30pm. Call 228-3113.

MONDAY, OCT. 29

B.C. Cancer Foundation Seminar

Exploratory And Speculative Data Analysis Of Secondary Tumor Formation. Dr. Jim Thompson, Statistics, Rice U., Houston, Texas. B.C.C.R.C. Lecture Theatre, 601 W. 10th from 12-1pm. Call 877-6010.

The Gairdner Found/Biotech Lab/Biochemistry Seminar

Discussion Groups. Molecular Genetics Of Cystic Fibrosis. Dr. Lap-Chee Tsui, Research Inst., Genetics, Hosp. Sick Children, Toronto. IRC #4 at 3:45pm. Call 228-4838.

Pediatrics Research Seminar Series

Purification Of Rubella Virus Structural Proteins And Their Use In Immuno-Assays. Mr. Chris Mauracher, Immunology, Pediatrics. University Hospital, Shaughnessy Site D-308 at 12 noon. Call 875-2492.

Astronomy Seminar

Population II Field Stars. Dr. Sean Ryan, U. of Victoria. Coffee available from 3:30pm. Geophysics/Astronomy 260 at 4pm. Call 228-4134/2267.

United Church Campus Ministry Lecture

Caring For Persons With AIDS: Beyond Compassion. Rev. Neil Gray, Chaplain, St. Paul's Hosp. Sub 205 at 12:30pm. Call 224-3722.

MECH 598 Seminar

Some Recent Research In Control And Automation. Prof. Clarence de Silva, Mechanical Engineering. CEME 1202 from 3:30-4:30pm. Call 228-6200.

Asian Studies Public Lecture/Seminar

Chu Hsi And Quiet-Sitting: Meditation As Part Of The Way. Dr. Rodney Taylor, Religious Studies and Assoc. Dean, Graduate School, U. of Colorado, Boul-

October 21 – November 3

der. Copies now available in Asian Centre 403. Asian Centre 604 from 3:30-5pm. Call 228-5728.

History Lecture



The Protestant Enlightenment Of The Eighteenth Century. Prof. Meindert Evers, History, U. of Nimwegen, Netherlands. Buchanan A-104 at 12:30pm. Call 228-5166.

UBC Chamber Wind Ensembles

Free admission. Music Recital Hall at 12:30pm. Call 228-3113.

TUESDAY, OCT. 30

Botany Seminar

Structure-Function Relationships Of The Membrane-Bound Cytochromes Of Oxygenic Photosynthesis. Dr. William A. Cramer, Biosciences 2000 at 12:30pm. Call 228-2133.

Lecture In Modern Chemistry

The Self Assembly Of Molecules On Zeolite Surfaces. Prof. Galen D. Stucky, Chemistry, U. of California, Santa Barbara. Refreshments served from 12:40pm. Chemistry B-250 at 1pm. Call 228-3266.

Medical Genetics Seminar



ASHG Meeting Highlights. Various Speakers. Coffee available at 8:15am. Hennings (Phys) 202 at 8:30am. Call 228-5311.

WEDNESDAY, OCT. 31

Women and Development Study Group Lecture



Survivors Of Sexual Abuse: Cross-Cultural Perspectives. Ms. Dara Culbane, Ph.D Candidate/Sessional Lecturer, SFU. Geography 223 from 12:30-1:30pm. Call 228-5875.

Ecology/Resource Seminars

Fighting Failure: Response Of Female Willow Ptarmigan To Nest Predation. Kathy Martin, U. of Toronto, Scarborough. Biosciences 2449 at 4:30pm. Call 228-2731.

Zoology/Oceanography/Cryptozoology Club Seminar

Dragons: Disproof Of The Nul Hypothesis. Dr. Cas Lindsey. Biosciences 2000 at 12:30pm. Call 228-6973.

Geophysics Seminar



Geothermics In The Hundred Years Before 1939. Alan M. Jessop, Inst. Sedimentary/Petroleum Geology, Geological Survey of Canada. Coffee available from 3:45pm. Geophysics/Astronomy 260 at 4pm. Call T. Ulyrch 228-3100/2267.

Geography Colloquium

The Challenge Of Sustainable Development. Dean Pat Marchak/Panel, Arts, UBC. Geog 100 at 3:30pm. Call 228-3268.

Applied Mathematics Seminar

Elliptic Boundary Value Problems With Singular Domain Perturbation. Dr. H. Weinitschke, Inst. Applied Mathematics, U. Erlangen-Nurnberg, Erlange, W. Germany. Math 229 at 3:45pm. Call 228-4584.

Wednesday Noon-Hour Concert Series

1990 Eckhardt-Gramatte Music Competition Winner. Jane Leibel, soprano with Rachel Andrist, piano. Admission \$2. Music Recital Hall at 12:30pm. Call 228-3113.

THURSDAY, NOV. 1

Forestry Seminar

Australian Rain Forest Trees, Their Ecology And Implications For Forest Management. Dr. William Thompson, Research Assoc. Forest Sciences, UBC. MacMillan 166 from 12:30-1:30pm. Call 228-2507.

Geological Sciences Visiting Speakers Seminar

A New Look At The Structure Of The Queen Charlotte/Adjacent Continental Margin. Henry Lyatsky, Geological Sciences, UBC. G.L.S.C. 330-A from 12:30-1:30pm. Call 228-4525.

Philosophy 1990 Fall Colloquium Series

Life During Life? The Survival Of Persons. Warren Bougeois, Kwantlen College. Buchanan D-336 at 12:30pm. Call 228-3292.

Women Students' Lecture

Procrastination. Ray Edney. Free admission. Brock Hall D-204 from 12:30-2:20pm. Call 228-2415.

Faculty of Medicine Distinguished Faculty Lecturer

Acidic Amino Acids - From Pharmacological Curiosities To Excitatory Synaptic Transmitters. Dr. Hugh McLennan, Physiology, U. Hospital/UBC G-279 at 12 noon. Call 228-4305.

Pharmacology Seminar

Mechanisms Of Anaesthesia I. Dr. Hosam El-Beheiry, Pharmacology/Therapeutics, Medicine, UBC. Friedman (Anatomy) LH B from 11:30am-12:30pm. Call 228-2575.

President's Advisory Committee On Lectures/Inst. of Asian Research/Dept. Asian Studies Seminar



The Stone Of Fiction And The Fiction Of Stone: Reflexivity And Religious Symbolism In The *Hung-Lou Meng*. Dr. Anthony C. Yu, Carl Darling Prof. Humanities/Divinity School/East Languages/Civilizations, U. of Chicago. Asian Centre 604 from 3:30-5pm. Call 228-5728.

Physics Colloquium

Spider Silk. John Gosline, Zoology, UBC. Hennings 201 at 4pm. Call 228-3853.

TAG Fall 1990 Seminars

The 35 MM Photographic Slide. Don Stevens, Education Media Ctr. Ed. Media Centre, Scarfe 1310 from 3:45-5pm. Call 222-5249.

FRIDAY, NOV. 2

The President's Advisory Committee on Lectures

Chinese Dreams: A Literary Analysis. Dr. Anthony C. Yu, Humanities/Divinity School/East Asian Languages/Civilizations, U. of Chicago. Buchanan A-205 from 12:30-1:30pm. Call 228-5728.

Fisheries/Aquatic Science Seminar Series

Predator-Prey Spatial Relationships In Dynamic Physical Systems: Examples From The Northwest Atlantic. George Rose, Fisheries & Oceans, St. John's. Biosciences 2361 at 3:30pm. Call 228-2731.

Economics Departmental Seminar

Economics/Dynamic Programming. Peter Streufert, Wisconsin. Host is Prof. Harry J. Paarsch. Brock Hall 351 from 4:530pm. Call 228-2876.

Chemical Engineering Weekly Seminar

Studies Of Particulate Fouling In Compact Heat Exchangers. Dr. Guohong Zhang, Postdoctoral Research Fellow. Chem. Eng. 206 at 3:30pm. Call 228-3238.

University Chamber Singers

Two Concerts: Cortland Hultberg, director. Free Admission. Music Recital Hall at 12:30pm and again at 8pm. Call 228-3113.

SATURDAY, NOV. 3

THE VANCOUVER INSTITUTE



Information Technology In The Global Economy. Dr. William J. Raduchel, Chief Financial Officer, Sun Microsystems, Inc., Mt. View, CA. IRC #2 at 8:15pm. Call 228-5675.

NOTICES

Awards And Financial Aid

Rhodes Scholarship (1991) application forms for Oxford are now available in the UBC Awards Office. Awards Office, General Services/Administration 101 or call 228-5111.

Executive Programmes

Executive Programmes one/two-day business seminars. Oct. 22-23, Manufacturing Strategies, \$875. Nov. 1-2, Marketing Management, \$550; Industrial Bar Coding, \$875. Call 224-8400.

UBC Speakers Bureau



Would your group like to know more about "... the First Nations House of Learning or the History of Logging (with slides)?" More than 500 topics to choose from; most speakers available free of charge. Call 228-6167, Mon., Wed., Fri., 8:30am-noon.

Our Chiefs And Elders



Portraits of BC Native leaders, chiefs, chief counselors and elders by Kwaguitl photographer David Neel. Continues at the Museum of Anthropology. Call 228-5087.

Asian Centre Art Exhibits

Until Oct. 30: Exhibit of historical Buddhist icons painted on seasoned wood by Kojima Tadashi. Asian Centre Auditorium, 11am-5pm daily. Call 228-2746.

Sports Medicine Study

Volunteers, female, age 18-35 needed to participate in study on Exercise and the Menstrual Cycle. Allan McGavin Sports Med. Centre, John Owen Pavilion, UBC. Call Dr. Connie Lebrun 228-4045 or 980-6355.

Badminton Club For Faculty/Staff



Thursdays from 8:30-10:30pm and Fridays from 6:30-8:30pm in Gym A of the Robert Osborne Centre. Cost is \$15 plus library card. Call Bernard 228-6209 or 731-9966.

Fitness Appraisal

Physical Education and Recreation through the John M. Buchanan Fitness and Research Centre, administers a physical fitness assessment program. Students \$25, others \$30. Call 228-4356.

Agricurl

Late afternoon curling starts Oct. 16. New plus experienced curlers welcome. Thunderbird, Tuesday evenings, 5:15 or 7:15pm. Call Alex Finlayson at 738-7698 or Paul Willing at 228-5468.

English Language Institute Courses



Evening ESL Courses. Start Oct. 1 or 2 and run twice a week for 8 weeks. Choose from Conversation Skills; Speech: Fluency and Pronunciation; Writing and Grammar, and TOEFL Preparation. Call 222-5208.

Oct. and Nov. Tues. and Thurs. evenings 7-9pm. Professional Development Series for Practicing Language Teachers. 7 workshops range from Improvisation in the ESL Classroom to Current Events and the ESL Class. Call 222-5208.

Centre for Continuing Education Evening Courses

Faculty of Forestry Lecture: Our Forests: A Citizen's Course In Current Issues From the Forest Industry, Labor, Recreation And Environmental Groups. Fee \$39. Wed evenings, to Nov. 14, from 7:30-9:30pm. H.R. MacMillan 116. Call 222-5328.

Social Sciences Lecture

An Introduction to Persian Literature. Monir Taha, U. of Tehran; author and poet. Tuesdays, Oct. 2-Dec. 4, 8:30-10pm. Fee \$95, students \$45. IRC G65/66. Call 222-5238.

Religious Studies 75th Anniversary Lectures

Religious Tolerance And Intolerance In A Multicultural Society. Different Speakers. Oct. 24-26, 9am-5pm. Buchanan Penthouse. Call 228-2515.

Introductory Language Course

Introductory Persian: Reading, Writing & Conversation. Tuesdays, Oct 2-Dec 4 from 6:30-8pm. Fee \$95, Students \$45. IRC G65/66. Call 222-5238.

Red Tape Lecture



Breaking Through Red Tape: Bureaucracy Unbound, Barry Grove, Amherst Coll., Harvard U. Fee \$48. Thursdays, Oct 4-25 from 7:30-9:30pm. B225 Buchanan Building. Call 222-5238.

Memory and Memory Strategies Study

Volunteers wanted, aged 60-plus, to participate in a memory investigation that explores memory strategies and their ability to boost memory performance. Call Karen at 228-2140.

Dermatology Study

For Alopecia Areata—scalp area. Volunteers 18-65, good health, greater than 50% hair loss for more than 1 year. Able to attend weekly visits for 1 year. Call Dr. Shapiro at 463-6111.

Daily Rhythms Study

Volunteers needed to keep a daily journal (average 5 min. daily) for 4 months, noting patterns in physical/social experiences. Call Jessica McFarlane at 228-5121.

Diabetic Clinical Study

Volunteers required. Patients with diabetes who have painful neuropathy affecting the legs needed for 14-week trial of an investigational new drug. Call Dr. Donald Studney, Dept. of Medicine, University Hospital, UBC Site at 228-7142.

Study For Acne Vulgaris

Volunteers aged 14-35 needed. Must be able to attend 4 visits over a 12 week period. Honorarium will be paid for participation. Call Dermatology at 874-8138.

Sleep Disorders Study

Volunteers 18-45 years suffering from Chronic Insomnia needed for a study on sleep-promoting medication (hypnotics). Must be available to sleep overnight at a lab for five nights. Call Carmen Ramirez at 228-7927.

Hypertension in Pregnancy Study

Pregnant women, concerned about their blood pressure, are invited to participate. The study compares relaxation training with standard medical treatment (own physician). Call Dr. Wolfgang Linden at 228-4156.

Post Polio Study

Persons with polio needed for functional assessment and possible training programs. Elizabeth Dean, Ph.D., School of Rehabilitation Medicine. Call 228-7392.

Multiple Sclerosis Study

Persons with mild to moderately severe MS needed for study on exercise responses. Elizabeth Dean, Ph.D., School of Rehab. Medicine. Call 228-7392.

Back Pain Research

Volunteers needed for magnetic resonance imaging of healthy spines. Call June, MRI Unit, 8am-4pm, Monday-Thursday at 228-7720.

Surplus Equipment Recycling Facility

All surplus items. Every Wednesday, 12-3pm. Task Force Bldg., 2352 Health Sciences Mall. Call 228-2813.

Sexual Harassment Office

Two advisors are available to discuss questions and concerns on the subject. They are prepared to help any member of the UBC community who is being sexually harassed to find a satisfactory resolution. Call Margaretha Hoek or Jon Shapiro at 228-6353.

Volunteering

To find an interesting and challenging volunteer job, get in touch with Volunteer Connections, Student Counselling and Resources Centre, Brock 200. Call 228-3811.

Narcotics Anonymous Meetings

Every Tuesday (including holidays) from 12:30-2pm, University Hospital, UBC Site, Room 311 (through Lab Medicine from Main Entrance). Call 873-1018 (24-hour Help Line).

Neville Scarfe Children's Garden

Located west of the Education Building. Free admission. Open year round. Families interested in planting, weeding or watering the garden, call Gary Pennington at 228-6386 or Jo-Anne Naslund at 434-1081.

Botanical Garden

Open every day from 10am-3pm until Mar. 15/91. Free admission. Call 228-3928.

Nitobe Garden

Open Monday to Friday, 10am-3pm until Mar. 15/91. Free admission. Call 228-3928.

Advertise in UBC Reports

Deadline for Nov. 1 issue is 4 p.m. Oct.22

For information, phone 228-3131

To place an ad, phone 228-4775

New system studied for treating SAD

By CONNIE FILLETTI

UBC's Seasonal Mood Clinic will participate in a multi-centre study of a new artificial light dosage system for the treatment of Seasonal Affective Disorder (SAD).

A light visor which provides artificial bright light (or light therapy) approximating early morning natural light while filtering out ultraviolet rays, will undergo clinical trials beginning Nov. 1.

Psychiatrist Dr. Raymond Lam, Director of the Seasonal Mood Clinic, described SAD as a mood disorder characterized by recurrent winter depressive episodes and summer remissions. Researchers believe that SAD may be triggered by a person's inability to resynchronize their biological clock after it's been disrupted by changes in the season.

Since being identified by researchers at Wash., D.C.'s National Institute of Mental Health in 1981 as a depressive syndrome, SAD has been responsive to daily treatment

with light therapy. Until now, most studies have involved the use of light boxes to induce the necessary antidepressant effect in patients.

"We have achieved excellent results with light therapy in our clinic," said Dr. Lam. "However, light boxes are cumbersome and expensive. It is also difficult to measure exactly how much light patients are receiving because they are required to sit still in front of the device for a minimum of two hours a day. People fidget, which may impinge on the effectiveness of the system on their treatment."

The battery-operated visor is approximately half the cost of the light box, weighs eight ounces and is headmounted above eye level allowing the user complete mobility during treatment.

It also only requires 30 minutes of use on average per day. The visor was developed by an American firm specializing in the research and development of light therapy systems.

Although Dr. Lam estimates that about 70

per cent of the population experiences some seasonal mood changes, SAD sufferers exhibit extreme symptoms of winter depression. They are chronically fatigued, sleep more, lack interest in their usual activities, crave carbohydrates, gain weight and feel alienated.

"About five per cent of a northern population like Canada experiences SAD," said Dr. Lam.

"The sustained duration of the symptoms and their negative effect on a person's ability to function differentiates SAD from the winter doldrums which the majority of people develop as the days grow shorter."

The Seasonal Mood Clinic, located at the UBC site of University Hospital, is the first of its kind in Canada and now in its third year of operation.

Anyone interested in more information about the clinic, or about participating in November's light therapy studies using the light visor, call 228-7325.



An economical and portable battery operated light visor may offer new help to people plagued by winter depression.

The following table was incomplete in the UBC Budget 1990/91 published in September.

GENERAL PURPOSE OPERATING FUND 1990/91 BUDGET

	Fiscal Budget 1989/90	Annual-ization & Budget Revisions 1989/90	Final Annualized Budget 1989/90	Budget Changes 1990/91	Fiscal Budget 1990/91	Annualized Budget 1990/91
INCOME (thousands)						
Provincial Grants	219,131	(1)	219,130	17,712	236,842	236,916
Credit Course Fees	41,997	619	42,616	2,484	45,100	45,216
Non-credit Course Fees	11,567	102	11,669	652	12,321	12,321
Miscellaneous Fees	726	14	740	263	1,003	1,003
Interest Income	4,640	(800)	3,840	590	4,430	4,150
Other Income	845	0	845	155	1,000	1,000
Total Income	278,906	(66)	278,840	21,856	300,696	300,606
EXPENDITURES (thousands)						
Salaries	206,617	3,629	210,246	17,172	227,418	230,189
Benefits	25,615	763	26,378	1,300	27,678	27,870
Subtotal	232,232	4,392	236,624	18,472	255,096	258,059
Utilities	6,859	(173)	6,686	238	6,924	6,924
Library Acquisitions	5,711	(143)	5,568	307	5,875	5,875
Student Aid	5,378	(275)	5,103	936	6,039	6,303
Other non-salary	35,217	(3,409)	31,808	4,584	36,392	34,543
Cost Recoveries	(6,491)	480	(6,011)	(1,027)	(7,038)	(6,908)
Est. Underspending					(2,592)	
Total Expenditures	278,906	872	279,778	23,510	300,696	304,796
Excess of expenditures over income					(0)	4,190
Less: Pre-committments against 1991/92 Access Funds						3,000
Recurring excess of expenditures over income - 1991/92						(1,190)

Scholars to study religious tolerance

Scholars from around the globe will examine the roots of religious tolerance and intolerance during a symposium sponsored by the Department of Religious Studies, Oct. 24-26 at UBC.

"We are bringing people with expertise together in order to look at a very serious issue, not only in Canada, but increasingly, around the world," said symposium organizer Hanna Kassis, who teaches Islamic Studies in the Religious Studies Department.

Kassis pointed to the debate over whether Sikhs, for example, are allowed to bring kirpans, or ceremonial knives, into courtrooms.

"People are dealing with specific events, but not looking in depth at the factors that make people stand apart from one another," he said.

Scholars will examine the different ways in which religious groups have been treated in society, ranging from indifference to persecution.

The symposium, Religious Tolerance and Intolerance in a Multicultural Society, will be held at the Buchanan Penthouse and the public is invited.

Committee on learning disabilities is established

The President's Office has established an Ad Hoc Committee on Specific Learning Disabilities.

"We want to identify ways in which the university can assist faculties in responding effectively to the needs of students with specific learning disabilities," said committee chair Daniel Birch, Vice-President, Academic.

The committee is exploring several avenues to make it easier for UBC students who have learning disabilities to get help, and easier for faculty who are asked for assistance to give it.

"One of our major concerns is that a faculty office, faced with a claim about a particular learning disability, may have no idea about how to find out if it is a legitimate claim and no idea about what kind of accommodations may be made for the student," Birch said.

The committee will eventually make recommendations to the university and Birch said he would welcome any comments and suggestions from the campus community on the issue.

People

Dixon named president of international group

Glen Dixon, Associate Professor in the Department of Visual and Performing Arts in Education and Director of the Child Study Centre, has been elected President of the Association for Childhood Education International (ACEI).

The association is the oldest professional association in the field of early childhood and elementary education. Based in Washington, D.C., it has 18,000 members throughout the world.

Dixon has served in many roles with the ACEI, sponsoring the 1984 international conference held at UBC and holding the position of vice-president for the past four years.

The first Canadian-born president of ACEI, Dixon will preside over the association's 100th anniversary celebrations in 1992.

Luciana Duranti, a professor in the School of Library, Archival and Information Studies, has received the W. Kaye Lamb Prize for 1989.

The prize is awarded annually to the author

of an article appearing in *Archivaria*, the journal of the Association of Canadian Archivists, which advances archival thinking and scholarship in Canada.

Duranti, who teaches archival studies, concentrates her research in the area of records management and diplomatics.

Dr. George Beagrie, Dean Emeritus of UBC's Faculty of Dentistry, has been made an honorary member of the American Dental Association (ADA).

The honor is conferred by the ADA on individuals who have made outstanding contributions to the advancement of the art and science of dentistry.

During his early career in Scotland, Dr. Beagrie developed new methods of pre-clinical teaching related to periodontology and restorative dentistry. Dr. Beagrie recently introduced a new approach using computer simulated teaching techniques and performance logic — a method now

used worldwide.

His research interests include the reaction of oral tissues to clinical procedures and clinical research in management of periodontal diseases.

Dr. Beagrie served as UBC's Dean of Dentistry between 1978 and 1988. He was made an honorary member of the ADA during an awards luncheon held in Boston, Oct. 14.



Beagrie

scientific cooperation between Canada and the Federal Republic of Germany.

The award allows Professor Dennis to carry out collaborative research in molecular and genomic evolution with colleagues at the Max Planck Institute for Biochemistry in Munich, over a six month period.

Keith Brimacombe, Metals and Materials Engineering, was awarded the Meritorious Achievement Award by the Association of Professional Engineers and Geoscientists of B.C. at its annual meeting in Kamloops.

The award is presented to association members for outstanding achievements in professional or technical fields.

Brimacombe, director of UBC's Centre for Metallurgical Process Engineering, has distinguished himself as an educator and as a facilitator in technology transfer. His research has led to patents and process improvements which are being implemented world-wide.

New traffic lights sought to help colorblind drivers

By PAULA MARTIN

Green means "go" for most drivers at traffic signals, unless they are colorblind.

"Colorblind drivers themselves find that they have a lot of problems and tend to be anxious while driving," says UBC Psychology Professor Ron Lakowski, a world expert on color vision.

Lakowski is studying the problems facing those who are colorblind in an attempt to design traffic signals that will be easier for them to see.

People who are colorblind, or color deficient, suffer from an absence or defect in the perception of colors, mostly red, green and blue — and they tend to confuse the colors.

It is a problem that some people are born with, and which develops in others as a result of disease or aging, says Lakowski, adding that he was born with a minor congenital impairment.

"From my own experience, I know that if I come to a traffic signal and it's a good day, no problem," he says. "But, for example, if the sun is shining brightly on the lights, I can't tell whether I should go or not. I have to look at what other people are doing in the intersection."

Statistics show that up to nine per cent of men are born colorblind and an additional 15 per cent of men and women acquire it through disease or



Photo by Media Services

Psychology Professor Ron Lakowski with some of the equipment he uses in studying the problems that face drivers who are colorblind.

aging.

Many people who acquire color vision losses as they age aren't even aware of it, Lakowski adds.

Volunteers are needed to participate in his study, including people between the ages of 30 and 70 who have no color vision problems.

The study also requires people who know they have color vision deficiencies.

They will be asked to spend two hours at the Psychology Department's

Visual Laboratories for vision testing.

"They'll certainly get a better sense of what their vision difficulties are," says Lakowski, who is collaborating with UBC's Civil Engineering and Ophthalmology departments in the research project, which was commissioned and funded by the provincial Ministry of Transportation and Highways.

For more information or to volunteer, call Dr. Lakowski at 228-6220 or 228-6598.

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Counselling Psychology Colloquium

"Decision-Making Process in Morally Conflicting Situations"

Dr. Ruth Linn

Date: Friday, November 16, 1990

Time: 12:30 to 1:30 p.m.

Place: Room 102, 5780 Toronto Rd., UBC

Everyone Welcome!
For information call 228-5259

Classified

Classified advertising can be purchased from Media Services. Phone 228-4775. Ads placed by faculty and staff cost \$6 per insertion for 35 words. Others are charged \$7. Monday, Oct. 22 at 4 p.m. is the deadline for the next issue of UBC Reports which appears on Thursday, Nov. 1. Deadline for the following edition on Nov. 15 is 4 p.m. Monday, Nov. 5. All ads must be paid in advance in cash, by cheque or internal requisition.

Services

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NOTARY PUBLIC: for all your Notarial Services including Wills, Conveyancing and Mortgages, contact Pauline Matt, 4467 Dunbar St., (at 28th & Dunbar), Vancouver, B.C. Telephone (604) 222-9994.

Accommodation

HOUSE SITTING: Postdoctoral fellow, wife and baby seek housesitting arrangement to begin in Fall, 1990, or Spring, 1991. We are responsible, non-smokers, good with pets and house plants and especially enjoy gardening. Call Geoff or Denyse (403) 432-7874 evenings.

Miscellaneous

FINDERS FEES: Significant sums to be earned for acting as a business intermediary. Absolutely no experience needed. Earn thousands for simply being the catalyst. Ideal for raising funds for yourself or the needs of charities. Write us for full information. Box 46136 Station G, Vancouver, B.C., V6R 4G5

The Twenty-Fifth Anniversary of UBC Creative Writing

WORDS WE CALL HOME

A literary evening with Roo Borson, Robert Bringhurst, Daryl Duke, Gary Geddes, Genni Gunn, Jack Hodgins, Debbie Howlett, Surjeet Kalsey, Daphne Marlatt, Daniel David Moses, Morris Panych and Fred Wah.

Saturday, October 27, 8 p.m., Granville Island Room
1502 Duranleau St., Granville Island
Tickets \$10



Science Council of B.C.

Dolphin, Unruh awarded gold medals

By GAVIN WILSON

Two UBC faculty members have been awarded B.C. Science and Engineering Gold Medals by the Science Council of B.C.

David Dolphin, Chemistry, and William Unruh, Physics, will be recognized for their achievements at an awards dinner on October 23.

The awards were established in 1980 by the Science Council to increase awareness of the high quality of work being done by B.C.'s scientists, engineers and innovators.

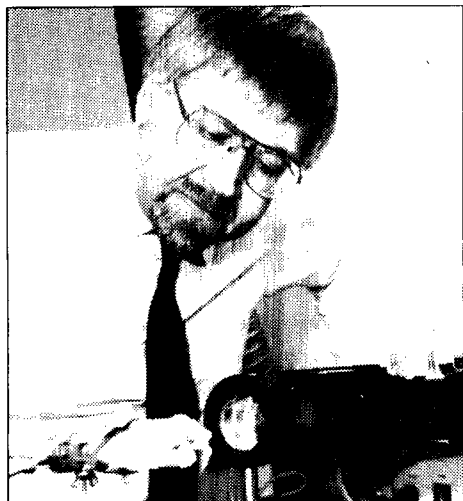
Dolphin was named winner of the 1990 Gold Medal in Health Sciences for his research into innovative, cancer-combatting drugs as well as for his work towards the development of a strong biotechnology industry in B.C.

The former Acting Dean of Science now divides his time equally between chemistry research at UBC and his position as Vice-President of Technology Development at Quadra Logic Technologies, a Vancouver biotechnology company.

Dolphin is an expert in the chemistry of porphyrins, naturally occurring light-sensitive substances.

In what is known as photodynamic therapy, cancer patients are given an injection of Photofrin, a light sensitive, porphyrin-based drug undergoing clinical trials at Quadra Logic.

The drug quickly accumulates in diseased tissues such as tumors. Activated by the light of a low-power laser, Photofrin acts to convert oxygen in the treated area into a toxic,



David Dolphin

tumor-killing substance that destroys the cancerous tissue without damaging nearby healthy tissue.

Other light-sensitive drugs developed by Dolphin can be used to cleanse donated blood of potentially harmful viruses, such as the AIDS-causing HIV. When exposed to light, the viruses in treated samples die without damage to the blood itself.

Dolphin is also involved in the development of a new biotechnological pulping process using porphyrins. Wood to be converted to pulp can be degraded in an efficient, environmentally safe manner using the light sensitive chemicals.

Unruh was named winner of the 1990 Gold Medal in the Natural Sciences for his work on gravity and theoretical cosmology, the study of the origin and evolution of the universe.



William Unruh

Unruh joined UBC's Physics Department in 1976. As well as being a professor in that department, he is now Director of the Cosmology Program of the Canadian Institute for Advanced Research (CIAR).

The CIAR, a private, non-profit organization, has created a series of Canadian-based international research networks to foster creative interdisciplinary approaches to the study of complex problems.

The Cosmology Program is one of five CIAR programs in which UBC participates. It is now in the fifth year of the initial \$2 million project and links six fellows across Canada with scientists around the world. It is for the type of work encouraged by this program that Unruh has been awarded the prize.

Unruh is interested in understanding situations involving the combined effects of gravity and quantum mechanics. The combi-

nation is important both for understanding the first instants in the origin of the universe and in developing a complete theory of matter and gravity.

Unruh has gained wide recognition for his pioneering work on quantum field theory as applied to black holes, black hole evaporation and acceleration radiation.

The latter phenomenon is encapsulated in a formula, which he discovered, linking the acceleration of a body to the temperature of the radiation that the body experiences when accelerated in the vacuum.

It has applications from understanding depolarization effects in high energy particle accelerators, to showing that black holes cannot be used to build a perpetual motion machine.

John Wheeler of Princeton University, past president of the American Physical Society and the man who gave black holes their name, has called this formula one of the most important discoveries in fundamental physics of the past 15 years.

Unruh has also been involved in investigating the fundamental limits set by quantum mechanics to the amplification and detection of signals, limits of crucial importance in the detection of gravitational radiation.

Also awarded a Science Council Gold Medal is the engineering and design team which supervised construction of the Alex Fraser Bridge. Sharing the award are CBA Engineering Ltd. of Vancouver, Buckland and Taylor of North Vancouver and the Ministry of Transportation and Highways.

Book marks Creative Writing's 25 years

By GAVIN WILSON

When UBC established the first independent department of Creative Writing in North America in 1965, naysayers claimed, "You can't teach people how to write."

Now the department is marking its 25th anniversary by publishing a commemorative anthology that features the works of 69 former UBC students, among them some of Canada's most celebrated writers.

The book, *Words We Call Home: Celebrating Creative Writing at UBC*, will be launched at an evening of literary readings held later this month at the Vancouver International Writers Festival.

An anthology of UBC writers is "long overdue," said editor Linda Svendsen, an assistant professor in the department who is herself a former UBC student.

"Writers are quietly working on their own and they don't necessarily band together to shout about it very much. But the 25th anniversary declares itself as the time to do so," she said.

"It's a very substantial book," said department head George McWhirter, who has been in Creative Writing at UBC since enrolling as a graduate student in 1967.

"What it says about our department is very simple. We produce solid writing and solid writers."

The department evolved from a creative writing course offered by Earle

Birney in 1946, the first course of its kind in Canada.

Birney promoted the creation of a separate writing department for two decades, and was able to retire having achieved his goal.

Graduates work in a vast array of genres, including poetry, novels, short fiction, plays, television and screen writing, children's literature, radio plays, editing magazines and literary journals.

"We're amazingly eclectic," said Svendsen. "That's comforting. It means we're not turning out a certain type of writer. Individual voices emerge, and that's what we want to see."

The eclecticism stems from a delib-

erate policy of avoiding advocacy of any particular school or style of writing.

"We leave the door open to whatever stylistic bent the students have," said McWhirter. "It's more im-

portant to teach them where they are as individuals, and then let them pursue that."

Among the contributors to *Words We Call Home* are: Jack Hodgins, Morris Panych, Andreas Schroeder,



Hodgins



Panych

Dennis Foon, Daryl Duke, Florence McNeil, Gary Geddes, Ann Ireland, Lionel Kearns, George Bowering, Heather Spears, Fred Wah, Morgan Nyberg and Robert Bringhurst.

Between them, and other contributors, they have won seven Governor General's Awards, a Seal First Novel Award, three Commonwealth Prizes and many other prestigious honors.

Graduates and faculty have founded theatre companies, the New Play Centre, The Sono Nis Press and literary magazines such as *Tish*, *Contemporary Literature in Translation*, *Canadian Fiction Magazine* and *PRISM international*.

Svendsen tracked down contributors by checking individual contacts and scanning phone books and membership lists of writers' groups. Some were located as far away as Scotland and Portugal. She asked them to submit "anything they loved" with the proviso that it be brief.

All the legwork and endless hours on the telephone were "a pleasure," Svendsen said.

"I received a great deal of encouragement here as a younger writer. I felt I should give something back."

The book launch will be a public event held as part of the Writers Festival. Many of the book's contributors will be there to read from their works.

"We've tried to cover all genres, all decades," said Svendsen. "I think it's going to be a festive, perhaps even nostalgic evening."

The launch will be held at the Festival Centre, Granville Island Room, 1502 Duranleau St., Granville Island, on Saturday, Oct. 27 at 8 p.m.

Tickets are \$10 (\$9 for students) and available at the UBC Bookstore or at the door. Proceeds go to the Earle Birney fund for Creative Writing at UBC. For more information, call 681-8400.

Postal Station "U" closes Oct. 26, replaced by Bookstore outlet

Postal Station "U" in the General Services Administration Building will close permanently on Oct. 26, said Canada Post spokesperson Ilona Beiks.

Replacing it is a full-service, retail outlet in the UBC Bookstore, which has been open since August, she said.

"There's a variety of reasons that enter into these decisions," Beiks said of the closure, including customer service, cost-effectiveness and inadequate space.

The Bookstore outlet will provide all postal services formerly available

at the postal station and have longer opening hours, she said.

The new postal outlet will maintain the same hours as the rest of the Bookstore: 8:30 a.m. to 5 p.m., Monday through Friday and 9:30 a.m. to 5 p.m. Saturday, with a late opening on Wednesday to 8:30 p.m.

Bookstore Director Debbie Harvie said the new location will give customers the opportunity to buy stamps at the front cash tills, rent post office boxes and buy packaging materials.

"We're trying to make it as con-

venient as possible for our customers," she said.

Beiks said there would be no loss of jobs associated with the closure. Canada Post staff will be assigned to other facilities.

The Bookstore outlet will also maintain philatelic sales. Beiks said UBC has one of the highest levels of philatelic sales in the Lower Mainland.

After the closure, the nearest Canada Post postal unit to UBC will be Postal Station "G" at 3760 West 10th Ave.