

UBC Reports

Volume 34 Number 13, July 14, 1988

Entomology conference

Bug experts help nab drug smugglers

by Gavin Wilson

A gang of New Zealand drug smugglers had no idea they'd be done in by tiny, dried remains of insects that laced their stash.

But they hadn't counted on the superior sleuthing skills of Trevor Crosby and other forensic entomologists who assisted police on the case.

Crosby, whose evidence helped convict two smugglers, was one of about 3,500 scientists attending the 18th International Congress of Entomology held at UBC July 3-9.

Forensic entomology, such as Crosby's work, was just one of hundreds of topics — ranging from cat fleas to beekeeping to methods used by the ancient Egyptians to keep pests out of stored grain — on the agenda at the congress.

The congress was organized by a committee chaired by Geoffrey Scudder, president and secretary general of the congress and head of UBC's zoology department.

In 1982, New Zealand police made arrests in connection with several seizures of marijuana worth millions of dollars. Charges of possession were laid, but police wanted to prove the drugs were smuggled into the country, a much more serious offence.

Botanists at New Zealand's Department of Scientific and Industrial Research were called in, but made little headway until they consulted their colleagues in entomology.

As they sifted through the marijuana, Crosby and the other researchers discovered the desiccated bodies of 61 insects — only one of



Photo by Warren Schmidt

Richard Fall shows off the giant South American Beetle, *Titanus Giganeus* at the commercial exhibit of the International Entomology Congress.

which was normally found in New Zealand.

The insects were identified and their normal range of distribution charted. Through a process of elimination, the marijuana's origin was



Canada Post issued four stamps featuring butterflies native to Canada in conjunction with the 18th International Congress of Entomology at UBC.

pinpointed. It had been grown in the infamous Golden Triangle of southeast Asia.

"Without our evidence the Crown would have lost a smuggling case," said Crosby. "We

provided a direct link."

Research conducted by most congress delegates is far less sensational, but the impact on people's lives is equally important.

Some estimates put the number of insect species on earth as high as 50 million, comprising more than 70 per cent of the world's total animal species.

A key element of the earth's eco-system, insects play a vital role in the pollination of plants, nutrient cycling and soil fertility. Yet they are also age-old foes of mankind, transmitting disease and eating crops. The cost of insect pest damage to agriculture and forestry in Canada alone exceeds \$100 million annually.

Entomology Congresses are held every four years to further the study of entomology by providing a forum for entomologists and other scientists to meet, exchange ideas and review research and the current state of knowledge.

The last congress held in Canada was in Montreal in 1956. More recent congresses were held in Washington, D.C. (1976), Kyoto (1980) and Hamburg (1984).

After opening ceremonies at the Orpheum Theatre, delegates turned their attention to insect wings and flight, pesticides, the effect of insects on the forest industry and agriculture and the evolution of mosquitos.

In conjunction with the congress, an exhibition of entomological specimens and books was held in the foyer of the Woodward Library and a commercial exhibit was held at the War Memorial Gym.

As well, Canada Post released new postage stamps to commemorate the Congress.

New Dean of Dentistry joins faculty next month

by Debora Sweeney

UBC is getting a new Dean of Dentistry. Dr. Paul Robertson joins the faculty Aug. 1, replacing retiring Dean George Beagrie.

Dr. Robertson is currently chairman of the department of stomatology at the University of California, San Francisco, School of Dentistry. He is well-known for his research in periodontology, the study of gum disease.

"The absolutely great attraction of UBC is its excellent research reputation," said Dr. Robertson. "The size of the faculty of dentistry is perfect for a dean to be involved in research."

Already, Dr. Robertson has worked to establish collaborative research between UBC and the University of California in the following areas: oral lesions caused by the long-term use of smokeless tobacco, chewing tobacco or snuff; methods of preventing and treating periodontal disease with the use of a device which delivers antibiotics and anti-inflammatory drugs to sites in the mouth during a long period of time; and the study of immuno-deficiency diseases, particularly AIDS, which are first detected in the mouth.

"In order to be competitive in research, collaborative efforts are absolutely essential," said Dr. Robertson.

His aim is to work closely with the faculties of medicine and pharmaceutical sciences continuing the efforts of his predecessor, Dr. Beagrie.

"I have nothing but admiration for Dr. Robertson," said Dr. Beagrie. "I believe he will further strengthen what we have started in developing excellent basic research into the causes and treatment of periodontal disease."

Before joining the University of California, Dr. Robertson was chairman of the department of periodontology at the University of Connecticut.

Women and exercise

Research dispels common beliefs

by Gavin Wilson

A UBC physician says recent research casts doubt on the commonly held belief that women who reach high levels of fitness risk disruption of their menstrual cycles.

Detailed records taken over a year show that women who trained for and ran a marathon had no more changes in their cycles than did women who were sedentary or who exercised moderately.

"We can say very clearly there is no evidence marathon training causes amenorrhea (an absence of periods)," said Dr. Jenlynn Prior, an assistant professor of medicine and a specialist in endocrinology.

"All the associations between amenorrhea and exercise are simply that — associations," said Prior. "You don't say that anyone wearing a suit and tie is a stockbroker just because all stockbrokers wear suits and ties, but that's the kind of association that has been made, and it's erroneous."

Prior said previous studies made the association partly because their methodologies were flawed. In her research, funded by Health and Welfare Canada and the Dairy Bureau of Canada, 66 volunteers were studied. All had a recent history of regular ovulatory cycles and were not taking birth control pills.

Also taking part in the research project were Arthur Burgess of radiology, Martin Schechter of health care and epidemiology, research nurse Yvette Vigna and research assistant Nansi Cunningham.

Exercise can affect menstruation, Prior says, but amenorrhea usually develops in exercising women only if there's other factors at work, such as weight loss, emotional stress or young age.

She believes that often amenorrhea is blamed on exercise because of a built-in bias against women who excel at athletics.

"There's a deep-seated belief, among both men and women, that somehow exercise just isn't right for women. I believe there's a strong

culturally based bias against women who do strenuous exercise," Prior said.

Meanwhile, volunteers are needed for another study examining the links between exercise, menstrual cycles and the fragile bone disease osteoporosis.

The study seeks to discover whether supplements such as calcium and the hormone progesterone will help prevent bone loss in women who run at least 24 kilometres a week and who may have menstrual changes even if their cycles are normal.

Prior's research indicates that bone loss could be caused by the absence of progesterone, which is linked to the release of the mature egg and the luteal phase (the premenstrual time between the release of the egg and the start of menstrual bleeding).

Women interested in taking part in the study should contact Yvette Vigna at 875-4566 or Dr. Prior at 875-4565.

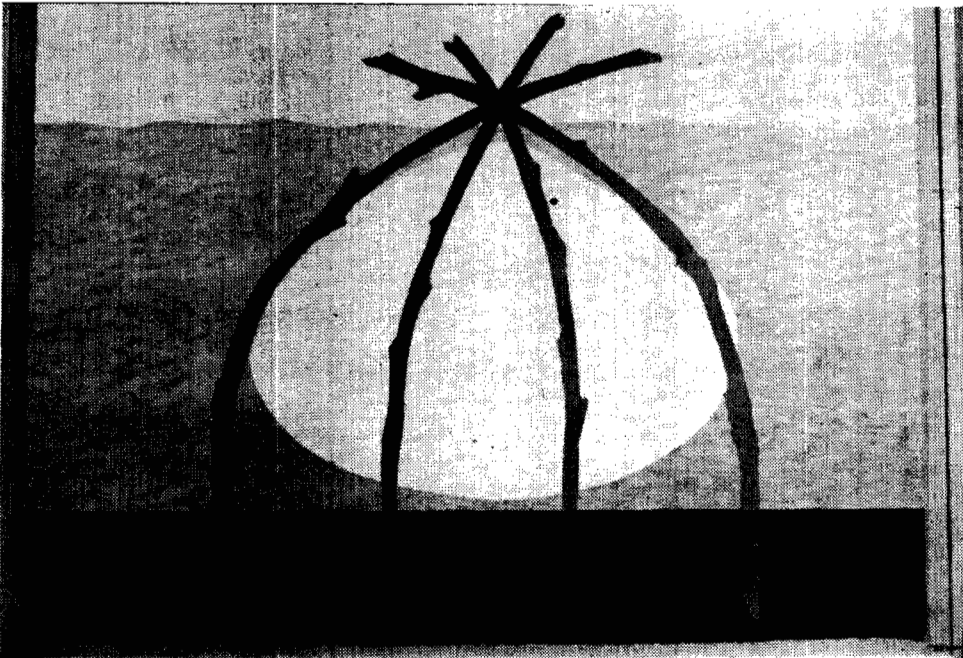


Photo by Warren Schmidt

"Florida" by Kamloops artist Anne Vaasjo is on display at the Fine Art Gallery until Aug. 12.

UBC Reports named best in Canada

UBC Reports was named Canada's best university or college newspaper in a recent competition sponsored by the Canadian Council for the Advancement of Education.

CCAE, Canada's national organization for public relations, alumni and development professionals in post-secondary institutions, made the announcement at a recent conference in Saskatoon.

UBC shares top billing with the University of Toronto Bulletin, which has earned the number one spot for the past three years.

UBC Reports is published bi-weekly by the Community Relations Office and is distributed on the campus and to government and business leaders and the media.

The tabloid is produced by editor-in-chief Don Whiteley, editor Howard Fluxgold and writers Jo Moss, Debora Sweeney, Lorie Chortyk and Gavin Wilson.

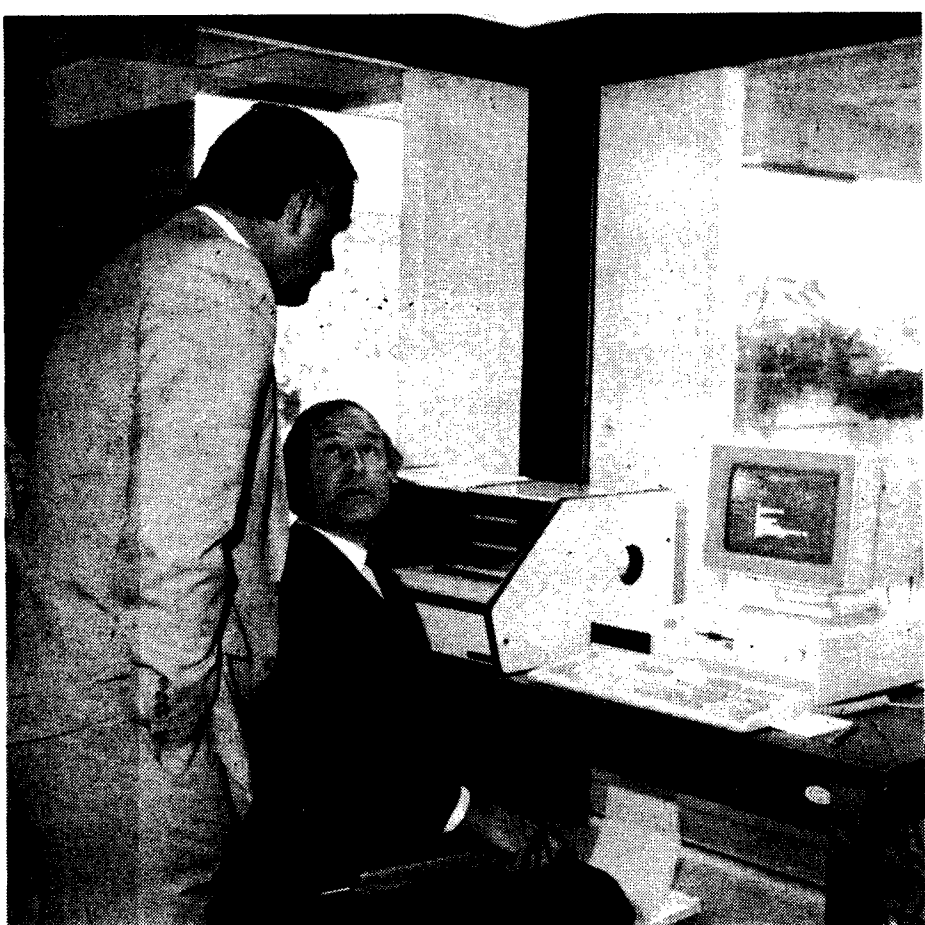


Photo by Warren Schmidt

Federal Justice Minister Ray Hnatyshyn looks over the shoulder of UBC law professor John Hogarth during a demonstration of the computer sentencing program at the Vancouver courthouse law library. Hnatyshyn presented the Computers and Law program with a \$233,000 grant to bring the system to all judges and lawyers in B.C. and evaluate it for potential national use.

Tooth decay weapon ignored by dentists, professor asserts

by Debora Sweeney

Dentists in B.C. are not taking advantage of a powerful weapon against tooth decay, says Dr. Barry McBride, head of UBC's Department of Microbiology.

Only 30-40 of the province's 1,500 dentists are using a service provided by UBC which identifies individuals with a high risk of developing cavities, Dr. McBride noted. Until now the service has been free, but soon a nominal fee will be introduced to cover costs.

The service is aimed at knocking out a micro-organism called *Streptococcus mutans* — known to cause holes in teeth. While dentists have been able to curb tooth decay during the last 20 years, the persistent bacteria continues to plague many Canadians.

"We have a procedure which could help dentists prevent cavities. They won't have to drill holes because the organism will be eliminated

before there are cavities," he said.

"The reason people require crowns and bridges to a large extent is because they are infected with a decay-causing organism. If they don't get rid of the organism, they'll have spent a great deal of money and they'll be back in a few years because those support structures will be corroded away by bacteria."

The procedure involves a simple test in which dentists send patients' saliva or plaque samples to Dr. McBride's oral microbiology laboratory. The samples are cultured in the lab so that the number and type of bacteria present can be identified. Then, dentists can supervise the treatment of patients showing high numbers of *Streptococcus mutans*.

In an effort to get more dentists interested in using the service, McBride is launching a campaign through the College of Dental Surgeons. As well, he is encouraging patients to ask their dentists why they are not using the tests.

UBC faculty members star on radio, television

by Lorie Chortyk

Medical professor Stephen Sacks describes his recent appearance on NBC's Phil Donahue Show as "exciting, but really unnerving."

Sacks appeared on the popular afternoon show to discuss the spread of herpes in North America.

"It was a great plug for the university," says Sacks. "He went on and on about what a great job UBC is doing in this area of research."

Sacks says he's done interviews with local media since the show aired June 8, and has been asked to do a pilot for a proposed Donahue clone for CBC.

"I've had a lot of calls from local reporters since the show aired. I guess it's unusual to see a Canadian on Donahue."

Sacks says he's aiming for a spot now on the Oprah Winfrey Show. And if anyone missed the June 8 Donahue Show, "I think there's about a hundred video-taped copies in my family," laughs Sacks.

He isn't the only faculty member spending time under the hot lights these days.

Psychologist Stanley Coren recently became the focus of international media attention when Nature Magazine published the results of a study he conducted on the lifespan of left-handers. The story was picked up by CTV's Canada AM, Reuter's news service and was broadcast across North America by the CBS and NBC radio networks and NBC's Today show.

On the international scene, the story was picked up by the Australian Broadcasting Corporation, and plans are under way at the BBC's World News Service in London to feature Coren's study.

For Oceanography Department head Paul Leblond, media interviews are a form of teaching. "I think my relationship with reporters has matured with experience. I communicate with them better now because I'm more in tune with the kind of information they're after."

A recent news release on Leblond's research on the existence of sea monsters sparked interest across North America, including articles in Reader's Digest Magazine (international edition), Air Canada's En Route Magazine, the Vancouver Sun and Victoria Times Colonist, a full-page spread in the Toronto Sun and weekly newspapers throughout B.C.

He also appeared on CBC-TV's Switchback show, CBC radio's Early Edition, Daybreak and Basic Black, CKNW, CFMI, CKO's national show Night Talk and KNUS radio in Denver, Colo.

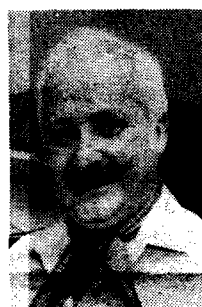
"I get asked the same questions again and

again, but it's always interesting and fun because I can add new information each time," says Leblond. "I think it's the role of the university to go out to the public, not just to speak to one's peers in the penthouse of the ivory tower. We shouldn't hide our light under a bushel."

Leblond says the attention has prompted many letters from people who have information about sightings.

"The letters range from high school students wanting to know more about the research to people who claim they've seen monsters from the 'fourth dimension.'"

"It's always interesting."



Coren

Lithoprobe explores ancient geology of B.C.

by Gavin Wilson

A national geophysics project based at UBC is conducting research this summer to explain how the terrain of British Columbia was created over the past 180-million years.

The Lithoprobe project, the largest earth sciences research project ever undertaken in Canada, has already discovered what could be the earth's deepest rift far below Lake Superior and important new information about ore deposits in the Canadian Shield.

Lithoprobe was set up in 1984 to explore the lithosphere, the rigid outer shell of the earth's crust, using seismic reflection (measuring the "echoes" of vibrations send into the ground) and other techniques. It is providing the first clear images of geological structures as deep as 50

kilometres below the surface.

Lithoprobe director Ronald Clowes, a UBC geophysics professor, said this information is vital for the exploration of buried mineral and fossil fuel resources and for understanding the causes of earthquakes and volcanos.

This summer, Lithoprobe researchers turn their attention to the southern Cordillera, the geological term for the region of mountains that stretches across B.C.

Most of the province was not originally part of North America, said Clowes. It began as a series of micro-continents formed far out in the Pacific which then moved onto the coast one after the other, a process which continues to this day.

Researchers hope to discover whether B.C.'s terrain was built up of thin sheets of material placed one on top of another, or as vertical slabs thrust together.

Meanwhile, a recent Lithoprobe survey of Lake Superior uncovered details of a major rift, 1,000 million years old, far below the lake bottom. It lies buried beneath 30 kilometres of volcanic rocks and other sediment.

"It's probably the deepest known rift in the world," said Clowes.

It's Your's contest winners chosen

by Lorie Chortyk

Timothy Ryan of Yew Street in Vancouver is the grand-prize winner of a contest in It's Yours, UBC's annual report to the community. The report was distributed to nearly 600,000 homes throughout B.C. in May.

Ryan's name was drawn from 758 contest entries. He wins a summer weekend getaway at UBC for a family of five, including accommodation at Gage Residence, meals, passes to the Nitobe and Botanical Gardens, free swimming and tennis, and admission to UBC's world-famous Museum of Anthropology.

It's Yours drew many enthusiastic comments from the public.

"Through this report, you made the average person feel UBC is for everyone," wrote one reader. Another person wrote: "I was amazed to find out all that UBC has to offer the general public."

Others wrote in to say that the report demonstrated the value of UBC to the community and to thank the university for keeping the public informed about its activities.

One reader put it simply: "We're proud of you, too."

John Balfour Urology specialist

A pioneer in B.C. urology, Dr. John Balfour, died May 3 in Gibsons. He was 76.

Born in Vancouver Dec. 16, 1911, Dr. Balfour returned to the city in 1946 after completing his training and serving in the army overseas. He worked out of Vancouver General Hospital, and in 1951, joined the newly created UBC Faculty of Medicine. He was head of urology from 1951 until he retired in 1977.

It is estimated that more than half of the province's urologists trained under Dr. Balfour and the staff he organized.

Dr. Balfour also introduced developments in the treatment of bladder and prostatic cancer using radiation and surgery.

He is survived by his wife, Louise, four daughters, one son, six grandchildren, a sister and a brother.

A research fund has been set up in Dr. Balfour's name, administered through the UBC Department of Surgery. The proceeds will be directed to resident education, in particular to encourage resident research and provide financial assistance for urology residents.

Richmond student off to Helsinki

by Gavin Wilson

A Richmond high school student competes this month in the International Chemistry Olympics in Helsinki, Finland, after taking part in a program coordinated by UBC.

Chris Gunn, a recent graduate of Steveston Senior Secondary School, has also won the \$2,500 President's Scholarship from UBC, one of the most prestigious awards for incoming undergraduates.

Gunn placed third in the Canadian Chemistry Olympics to become one of the four-person international squad.

UBC's Chemistry Department, headed by Larry Weiler, coordinated the national competition in western Canada. For six months, the department sent out chemistry problems to secondary schools around the province, marking the returned answers and collating the results.

In May, a final training session, including laboratory preparation, was held on campus for the province's top 25 students. Those students then wrote a national test.

Science tours set for next week

The UBC Centre for Continuing Education is sponsoring morning science tours for children aged 10-13. Ron Klassen, a high school science teacher, will accompany the group on the tours, which run Monday to Friday, July 18-22. The Lynn Valley Ecology Centre, Vancouver Port Corporation and a steel mill are among the destinations. Cost of the tour week is \$105 and includes chartered transportation. For information call 222-5273.

Post-grad student killed in accident

A traffic accident last month claimed the life of UBC post-graduate student Ann McKenna, 23.

McKenna, who was conducting research at TRIUMF, and husband Ross McKenna, a physics graduate student, were cycling to campus along 41st Ave. when she was struck by a bus and killed.

Funeral services were held in her native Nova Scotia.

BRITANNIA MINES:

Paradise lost studied for clues to popularity

by Lorie Chortyk

Britannia Mines was paradise for many of its former residents and two UBC history professors hope to discover why.

Professors Dianne Newell and James Huzel are leading a team of student researchers computerizing the personnel records of 20,000 employees who lived in the once-thriving mining town 30 miles north of Vancouver. The data were donated to UBC by the B.C. Museum of Mining.

Newell says the records, covering the period 1920-1974, provide clues about the lifestyle of company employees and their families in the isolated coastal community.

"The study is unique because of the volume of records the company kept over an extended period of time," says Newell. "It's unusual to have this continuity because very few mines are owned by the same company for as long as Britannia was."



Life wasn't all fun and games at Britannia Mines. These miners are ready for their shift underground in 1923.



Timms Photo Co. caught these kids having the time of their life in 1907 going for a ride on a mine train.

Newell says other company records detail where each employee lived, what rent they paid, how much they spent at the company store, as well as their medical histories.

"We also can piece together what a day in the life of an employee was like because daily tasks are documented," says Newell. "The records will be a valuable source of information for researchers in sociology, medicine, engineering and other disciplines."

Once the largest copper producer in the Commonwealth, Britannia Mines employed more than 60,000 people and produced 60 million tons of copper ore in its 70-year history. By the time the mine closed down in 1974, the townsite had disbanded and only a handful of workers remained. Earlier this year, the ore concentrating complex at the Britannia Beach site was declared a national historic site by the Historic Sites and Monuments Board of Canada.

Newell has also made Britannia the focus of oral history projects carried out by students in her Western

Canadian history course. The interviews are kept in the Special Collections Division of the UBC library.

"It's a good combination," says Newell. "The records give us a statistical overview of who was in the community and what they were doing, and the oral histories give us the human perspective."

Newell says living in Britannia was less than ideal for many of the men who worked underground.

"If you were a single man living in a bunkhouse, you weren't part of this family-oriented community, and in the 1930s and 40s safety conditions underground deteriorated badly."

But many former Britannia residents remember their town with great affection.

"When we did the oral histories, we heard over and over again that Britannia was the perfect place to live. People loved the community and many of them were upset when the highway went through and the community opened up. Until then, the only access to the townsite was by water

and you weren't allowed in without permission of the company."

Elsie Hamelin, now in her 70s and living in Vancouver, is one of the Britannia residents who remembers the community as "absolute paradise."

"We had everything you could wish for. The company built swimming pools, a tennis court, a gymnasium and a ball field for the residents. Everyone knew everyone else and we were like a family."

Hamelin was one of the last residents to leave when the townsite closed.

"I stayed as long as I could. Those 23 years were the happiest of my life. It was absolutely heartbreaking to leave."

Newell says the information from the Britannia records, coded by number rather than name, will be available through the UBC library for local historians, researchers and members of the public.



The ore concentrating complex is the background for oldtimers celebrating the 100th anniversary of copper at Britannia Mines last May. The complex was declared a national historic site earlier this year.

People

Bewley wins library award

The highest award of the B.C. Library Association, the Helen Gordon Stewart Award, has been given to **Lols Bewley**, of the School of Library, Archival and Information Studies. Bewley, a faculty member since 1969, was given the prize in recognition of outstanding lifetime achievement in her field. She is the former president of the B.C. Library Association and the Canadian Library Association and has been active in library associations and government library commissions.

UBC lecturer **Edna Nash** was recently honored for her contributions to the field of psychology by the North American Society of Adlerian Psychology. She received a Certificate of Appreciation at the society's annual conference in Seattle. Nash is a sessional

lecturer in the Counselling Psychology Department in the Faculty of Education.

The first two winners of the Science Council of B.C. Science and Technology Awards for Returning Students (STARS) awards, **Marilyn Borugian** and **Alexander Sy**, will come to UBC to pursue PhDs. The council gives STARS, worth \$25,000 a year, to people in industry who want to return to university to improve their research skills. Borugian, a computer systems consultant for Corporate Systems Strategies, will work on a PhD in microbiology under the direction of **Julia Levy**. Sy, a geotechnical engineer with Kohn Leonoff Ltd., will work towards his doctorate in civil engineering under the supervision of **R.G. Campanella**.

UBC Calendar from Page 4

Nitobe Memorial Garden

Open Daily 10:00 a.m.-8:00 p.m. May - August. Admission \$1. Free on Wednesdays.

Botanical Garden

Open Daily 10:00 a.m.-8:00 p.m. May - August. Admission \$2. Free on Wednesdays.

Language Programs

Summer fun can be a challenge! Enjoy learning French, Japanese, Mandarin and Cantonese with UBC Language Programs this summer. Conversational courses in a relaxed atmosphere help you communicate with others who share your interests. All courses are non-credit. Three-week morning and immersion programs in French begin August 2. Three-week morning programs in Spanish, Japanese, Cantonese and Mandarin begin July 25. For information call 222-5227.

Reading, Writing and Study Skills Centre

Improve your reading speed and comprehension, improve your writing, develop better study skills, prepare for the English Composition Test. The Centre offers 10 non-credit courses, including Writing Improvement, Reading for Speed and Comprehension, Study Skills and English Composition Test workshops. During July, take advantage of the Basic Skills program—a special opportunity to master your writing, reading and study skills—Monday to Thursday mornings. Learn techniques to help you speak and lead under pressure—a second section of Thinking and Communicating on Your Feet is available the August 5-6 weekend. For registration information call the Reading, Writing and Study Skills Centre, Centre for Continuing Education, 222-5284.

Stage Campus '88

Sponsored by the Theatre Department. July 27 - August 6 at 8:00 p.m. Pericles by William Shakespeare. Directed by Eric Epstein. For reservations call 228-2678. \$5. Frederic Wood Theatre.

UBC Access—Guided Independent Study

To obtain a copy of our new 1988/89 UBC calendar of UBC credit courses by distance education, call 228-6565 or drop by our office, Room 324, Library Processing Building.

Department of Psychology

Individuals 18 and older are needed for a research project on changes in memory across the adult life span. For information call Jo Ann Miller at 228-6395.

Chinese Silk Painting Exhibition

Sponsored by Institute of Asian Research. Caroline Ching-Hua Shen. Opening reception Saturday, July 23. Free admission. For information call 228-2746. Auditorium, Asian Centre. 11:00 a.m. - 5:30 p.m.

Traffic and Security

The Traffic and Security Department announce an increase in visitor parking rates effective August 2. Rates for surface lots and parkades will be 75 cents an hour, or portion thereof, to a maximum of \$5 a day. After 5:00 p.m., the evening flat rate will be \$2. Meter rates will be 75 cents an hour; 20 cents for 25 minutes. The new parkade in the SUB area is progressing on schedule and is expected to be opened in mid-December.

Program in Comparative Literature—ISISSS '88

August 2 - 26. The Tenth International Summer Institute for Semiotic and Structural Studies, featuring twelve courses (available on a graduate credit or non-credit basis) by such distinguished scholars as Thomas A. Sebeok (Indiana), Dan Sperber (Paris), Gayatri Spivak (Pittsburgh), John O'Neill (York), James Clifford (Santa Cruz), Nabaneeta Dev Sen (Calcutta), Patrizia Violi (Bologna), Pierre Maranda (Laval), and others. Evening workshops and lectures as well as three weekend conferences feature such well-known speakers as Arthur Erickson, Karl Pribram, Gregory J. Ulmer, Samuel R. Delany, Robert Davidson, Marjorie Halpin, John Wada, and others. For a copy of the ISISSS brochure and weekend conference programs, please contact the Program in Comparative Literature, Buchanan E162, 228-5157. From August 1, the ISISSS Registration Desk will be open in Room 191, Chancellor Building, Vancouver School of Theology, 6090 Chancellor Boulevard.

THURSDAY, JULY 14

Medical Grand Rounds

Oxygen Delivery & Consumption in Critical Illness. Dr. J. Russel, ICU, St. Paul's hospital. For information call Kathy Blackwood at 228-7737. Room G279, Acute Care Unit, Health Sciences Centre. 12:00 noon.

Centre for Continuing Education Lecture and Tour

Sculpture: Bronze Age. Jack Harman, sculptor. \$25; \$22 member Museum of Anthropology. For information call 222-5254. Conference Room, Carr Hall, Centre for Continuing Education. 7:30 - 9:00 p.m.

Summer Film '88

Moonstruck. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

FRIDAY, JULY 15

Beer Garden

Sponsored by the Graduate Student Society. For information call 228-3203. Garden Room, Grad Centre. 4:30 - 7:30 p.m.

Summer Film '88

Moonstruck. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

SATURDAY, JULY 16

Centre for Continuing Education Lecture and Tour

Sculpture: Bronze Age. Jack Harman, sculptor. \$25; \$22 member Museum of Anthropology. For information call 222-5254. Harman Sculpture Foundry, 10:00 a.m. - 12:30 p.m.; Teleglobe Canada 12:30 - 3:30 p.m.

Summer Film '88

D.O.A. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

SUNDAY, JULY 17

Summer Film '88

D.O.A. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

MONDAY, JULY 18

Public Seminar

Present and Future Health of Older Adults. Dr. Lois Verbrugge, Institute of Gerontology, University of Michigan. For information call 228-4822. Room 253, Mather Building. 9:00 a.m.

Seminar

Discount Rate Policy Under Alternative Operating Regimes. Douglas K. Pearce, Professor of Economics and Finance, North Carolina State University, Raleigh, North Carolina. For information call 228-8475. For paper, call 224-8503. Economics Conference Room, Buchanan Tower. 4:00 - 5:30 p.m.

Music Videos

Girl Groups; Ready Steady Go (Beatles, Moody Blues, Beach Boys). For information call 228-3203. Garden Room, Grad Centre. 6:00 p.m.

TUESDAY, JULY 19

Public Seminar

The Route from Morbidity to Mortality: Disability in Late Life. Dr. Lois Verbrugge, Institute of Gerontology, University of Michigan. For information call 228-4822. SFU Downtown Education Centre, 549 Howe Street. 4:30 p.m.

Summer Evening Concert

Hans-Karl Piltz, viola d'amour; Alexandra Browning, soprano; Robert Jordan, guitar; Vivian Waters and Milton Niederhoffer, violins; Steven Wilkes, viola; James Hill, cello and Gerald Van Wyck, harpsichord. For information call 228-3113. Recital Hall, Music Building. 8:00 p.m.

WEDNESDAY, JULY 20

Sale of Surplus Audio-Visual and Other Equipment

Department Sale. Sponsored by Surplus Equipment Recycling Facility. For information call 228-2813. 2352 Health Sciences Mall, Task Force Building. 12:00 - 3:00 p.m.

Jazz & Blues Night

DJ John Fossom. For information call 228-3203. Garden Room, Grad Centre. 5:30 p.m.

Bridge

Beginners welcome. For information call 228-3203. Garden Room, Grad Centre. 6:00 p.m.

THURSDAY, JULY 21

Medical Grand Rounds

Advances in Hypertension. Dr. J. Wright, Internal Medicine, Health Sciences Centre Hospital. For information call Kathy Blackwood at 228-7737. Room G279, Acute Care Unit, Health Sciences Centre Hospital. 12:00 noon.

UBC Reports is published every second Thursday by UBC Community Relations 6328 Memorial Road, Vancouver, B.C.

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Garibaldi at UBC

This photograph of 19th century Italian patriot Giuseppe Garibaldi is part of a UBC archives collection recently catalogued for use by researchers. The photo and the rest of a unique collection of Garibaldi letters, manuscripts and memorabilia originally belonged to the Rev. Hugh Haweis, an English admirer and contemporary of the Italian hero. His son, Lionel Haweis, joined the staff of UBC library in 1918. The collection was donated to the archives by Renee Chipman, his daughter.

Calendar Deadlines

For events in the period Aug. 7 to Sept. 10, notices must be submitted on proper Calendar forms no later than 4 p.m. on Monday, July 25 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.

Summer Film '88

Hope and Glory. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

FRIDAY, JULY 22

Sale of Surplus Audio-Visual and Other Equipment

Public Sale. Sponsored by Surplus Equipment Recycling Facility. For information call 228-2813. 2352 Health Sciences Mall, Task Force Building. 12:00 - 3:00 p.m.

Beer Garden

Sponsored by the Graduate Student Society. For information call 228-3203. Garden Room, Grad Centre. 4:30 - 7:30 p.m.

Summer Film '88

Hope and Glory. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

Dance

Hot Tamale Twisters. For information call 228-3203. Banquet Room, Grad Centre. 9:00 p.m.

SATURDAY, JULY 23

Summer Film '88

Down by Law. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

SUNDAY, JULY 24

Summer Film '88

Down by Law. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

MONDAY, JULY 25

Music Videos

That Was Rock (Berry, Gaye, Supremes, Stones); Hail Hail Rock 'n' Roll (Chuck Berry). For information call 228-3203. Garden Room, Grad Centre. 6:00 p.m.

SUNDAY, JULY 31

Summer Film '88

Empire of the Sun. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

TUESDAY, AUGUST 2

Summer Evening Concert

Rena Sharon, piano; John Loban, violin; Geoffrey Michael, viola and Paula Kiffner, cello. For information call 228-3113. Recital Hall, Music Building. 8:00 p.m.

THURSDAY, AUGUST 4

Summer Film '88

Biloxi Blues. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

FRIDAY, AUGUST 5

Summer Film '88

Biloxi Blues. For information call 228-3697. SUB Theatre, Student Union Building. 7:30 - 9:45 p.m.

The Semiotics of Representation

A Conference in Association with ISISS '88. Opening lecture by Karl Pribram, Stanford. Registration in Room 191, Chancellor Building, 6:30 p.m. For information call Lorraine Weir at 228-2365 or 228-5157. Chapel of the Epiphany, Vancouver School of Theology. 8:00 p.m.

SATURDAY, AUGUST 6

The Semiotics of Representation

A Conference in Association with ISISS '88. Lectures by Thomas A. Sebeok (Indiana), Dan Sperber (Paris), Gregory J. Ulmer (Florida), Tlottama Rajan (Wisconsin), Arthur Erickson, Patrizia Violi (Bologna), Pierre Maranda (Javal), Nabaneeta Dev Sen (Calcutta), Mava-Jo Powell (UBC), Barbara Godard (York). For information call Lorraine Weir at 228-2365 or 228-5157. Chapel of the Epiphany, Vancouver School of Theology. 9:00 a.m. - 10:00 p.m.

NOTICES

Free Guided Campus Tours

Bring your friends, visitors, community, school or civic group to UBC for a walking tour of the campus. Drop-ins welcome every Monday through Friday at 10 a.m. and 1 p.m.; 3 p.m. weekdays and weekend times available by reservation only. Groups will have the opportunity to see and learn about everything from the unique Sedgewick underground library to the Rose Garden and more. Tours commence at SUB and last approximately 2 hours in the morning and 1 1/2 hours in the afternoon. To book, call the Community Relations Office at 228-3131.

Neville Scarfe Children's Garden

Be sure to visit the Neville Scarfe Children's Garden located west of the Education Building. There is no charge to use the garden and it is open all year long. Families interested in planting, weeding and watering in the garden should contact Jo-Anne Naslund at 434-1081 or 228-3767.

Special Issue on Africa and the French Caribbean

Contemporary French Civilization is pleased to announce the preparation for 1989 of a major special issue exclusively devoted to Francophone Africa (North Africa and Black Africa) and the Caribbean. Articles in English or in French, 15-20 typed pages long, must be submitted by March 1st, 1989, on any contemporary culture-civilization topic involving a country or a region of Africa, Madagascar or the Caribbean (including Haiti). For other Francophone countries, please check with the guest-editor beforehand. Contributions should be of high quality in socio-cultural, socio-political, artistic fields, etc., showing an original approach to some aspect of the cultural complex of African, Malagasy or Caribbean society of the past 20-25 years. For information call Dr. Claude Bouyguies, African Literatures, French Department at 228-2879.

Job Link

Sponsored by the Alma Mater Society. Student run service linking UBC students with employers. We offer a prescreening and referral service. Our goal is to match employers with qualified students quickly and efficiently. Research positions welcome. For information call 228-JOBS. Room 100B, SUB.

Golf Lessons

Get into the swing of things this spring with Golf Lessons. Community Sport Services is once again offering Golf Lessons at the basic or intermediate level. Tuition waivers not acceptable. For information call 228-3688.

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.

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 228-4356.

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, Wednesdays, 7:30-9:30 p.m. Guests are welcome to attend, ask questions, and participate. For information call Geoff Lowe at 261-7065. Room 215, SUB.

M.Y. Williams Geological Museum

Open Monday - Friday, 8:30 a.m.-4:30 p.m.. The Collectors Shop is open Wednesdays 1:30-4:30 p.m. or by appointment. For information call 228-5586.

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