THE UNIVERSITY OF BRITISH COLUMBIA

UBC REPORTS

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■ Find *UBC Reports* on the Web at www.publicaffairs.ubc.ca ■

Stephen Forgacs photo

Elementary school students participating in a GEERing UP summer science and engineering camp at UBC test sailboats they constructed. Their next assignment — to build an electric car.

Children tackle science, engineering, hands-on

Elementary school students from across the Lower Mainland are getting hands-on experience in science and engineering this summer thanks to GEERing UP, a program developed by UBC engineering students.

The program reaches thousands of students each summer through classroom visits and camps held at UBC.

"We're trying to teach kids through hands-on activities," says GEERing UP's Walter Rosin, one of the UBC students running the program.

Some of the activities used by GEERing UP at the grades 2 to 4 levels include construction of sailboats, electric cars and airplanes, all of which involve lessons in science and engineering.

Now in its third year, the non-profit program runs week-long summer camps to the end of August. Camps are open to students entering Grade 2 to leaving Grade 7. While there is a registration fee of $125, full and partial bursaries are also available.

As registration fees make up only one-third of the operating budget, GEERing UP relies on the generous support of sponsors to operate the program.

For more information call (604) 822-2858, e-mail geering-up@unixg.ubc.ca or visit the Web site at www.apsc.ubc.ca/geeringup.

Study aims to root out trouble with perfection

Volunteers are needed for a study that will measure the effectiveness of group psychotherapy in treating perfectionism and its related symptoms, such as depression and anxiety.

Perfectionism becomes a problem when people feel they must be flawless to feel adequate or worthy, says Paul Hewitt, associate professor in the Dept. of Psychology. Such excessive expectations can lead to increased feelings of failure.

In previous studies, Hewitt has linked perfectionism to social ills such as depression, alcoholism, sexual dysfunction, eating disorders and suicide.

This latest study, part of graduate student Carol Flynn's PhD thesis, will examine if perfectionists can benefit from group therapy and will attempt to predict which patients would benefit most.

Hewitt says he has made gains with people troubled by perfectionist tendencies during one-on-one therapy and hopes to translate this into a group format.

"We expect to see some really positive benefits," he says.

The study, which starts this month, will involve about 60-70 people receiving treatment in small groups during 12 weekly sessions.

Under Hewitt's supervision, sessions will be led by senior-level clinical psychology PhD students.

The sessions will provide study subjects with information that will help them to understand perfectionism and will also give them the opportunity to discuss personal issues.

Anyone interested in taking part in the study should call (604) 822-0932.

Students apply cutting-edge research to work

by Gavin Wilson

Staff writer

Paul Hiom says he has found the best of both worlds as he plans to pursue his master's degree through the Centre of Operations Excellence (COE).

The Faculty of Commerce and Business Administration program combines work experience and classroom teaching, but adds cutting-edge applied research.

In fact, Hiom, other graduate students and faculty in the program work closely with private companies to solve complex management operations problems.

"COE really fills the gap," says Hiom. "You don't have to choose between education and getting work experience. You can do both at once while preparing for a career."

COE's aim is to share knowledge, skills and practices between academics and industry while sponsoring an applied master's program in management science and information technology.

The overall goal of the program is to improve the efficiency of companies through the design and implementation of state-of-the-art operations — those processes used to produce and deliver goods and services.

The COE graduate program was modeled on similar programs at the Massachusetts Institute of Technology and the University of Montreal, which respectively focus on manufacturing and transportation.

UBC faculty members also sought input from corporate partners such as BCTEL, BCTEL Mobility, BC Gas, Canadian Airlines, Weldwood of Canada, VanCity Credit Union, Avcorp Industries and the Workers' Compensation Board while developing the program. Several of these companies have become partners, offering students a variety of opportunities.

"We look for projects that apply cutting-edge research while providing practical educational experiences for our students," says Prof. Martin Puterman, COE's

See ***EXCELLENCE*** *Page 2*

Space-bound plankton aid global warming study

by Stephen Forgacs

Staff writer

UBC researchers are sending zooplankton, tiny animals near the bottom of the ocean food chain, into orbit in a quest to gain a better understanding of the world's oceans' ability to counter global warming.

Oceanographer Al Lewis and research technician Lara Chatters Fandrich will send zooplankton into space on a coming shuttle mission to study the role that gravity plays in guiding them from the oceans' depths to the surface. The zooplankton serve as tiny carbon couriers, ferrying carbon from the surface to the oceans' depths where it is stored.

"Oceans cover two-thirds of the globe and, because most of the world's vegetation is found in the ocean, are collectively responsible for consuming more carbon than all land plants combined," says Lewis, a professor in the Dept. of Earth and Ocean Sciences.

As couriers, zooplankton are an important component in the oceans' buffering ability for greenhouse gases. Through photosynthesis, phytoplankton — tiny plants that live close to the surface in vast numbers — take up carbon that has been absorbed at the ocean's surface from carbon dioxide in the atmosphere. Zooplankton venture to the surface from depths as great as 300 metres to feed on phytoplankton before returning to deeper water where the carbon is released.

Exactly how these tiny animals navigate on their migrations to the surface to feed is not clear, although the fact that they often migrate in darkness suggests sunlight is not solely responsible. Rather, Lewis believes zooplankton are guided by gravity. But many of these zooplankton lack anything resembling an inner ear, which gives most animals a sense of gravity.

"In designing an experiment to test the role of gravity it is important to remove or

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UBC faculty, staff and students explore alternative ways of getting to campus

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The key to better suburbs may be in our past, says Prof. Patrick Condon

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Forum: Will universities award degrees in the future? Michael Skolnik asks

"living mathematics with The Electronic Mathematician"

— NASSIF GHOUSSOUB
UBC MATHEMATICIAN; Pacific Institute of Mathematical Sciences

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Letters

LETTERS POLICY

UBC Reports **welcomes letters to the editor on topics relevant to the university community. Letters must be signed and include an address and phone number for verification. Please limit letters, which may be edited for length, style and clarity, to 300 words. Deadline is 10 days before publication date. Submit letters in person or by mail to the UBC Public Affairs Office, 310 – 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1, by fax to 822-2684 or by e-mail to janet.ansell@ubc.ca.**

Program puts merit first says Equity AVP

Editor:

In "Gender Equity Needs Balance" (*UBC Reports*, June 11, 1998), Frank G. Sterle claims UBC has a "gender equity" program that requires half of all professors to be women. Thus, according to Mr. Sterle, "half of all post-secondary spaces [should] be reserved for men/boys."

In actuality, UBC does not have a "gender equity" program. Rather it has an employment equity program, and contrary to Mr. Sterle, this program was not forced on UBC by "intense left-wing elements in our educational institutions and media" but rather mandated by law in 1986 by a Conservative federal government.

UBC's employment equity program does not require that 50 per cent of faculty be female. Instead, through educational workshops and consultations, the Equity Office encourages departments to achieve a gender representation that parallels the gender representation in the pool of qualified applicants for specific job openings.

University Policies 2 and 20 both require that the equity program be consistent with the merit principle. The program achieves consistency by requiring university departments to strive to attract as many qualified applicants as possible and to choose the most meritorious among them, irrespective of gender. Accordingly, the program does not embrace "alternate standards" of the sort that Canadians associate with affirmative action in the United States.

Mr. Sterle argues that if "gender equity" rules hiring at UBC, then it also should rule UBC's admissions policy. Were such the case, UBC would deny admission to better-qualified students in order to grant admission to less well-qualified students, thereby abandoning the University's long-standing policy of admitting on the basis of merit.

I believe UBC should continue to hire new faculty and admit new students according to the merit principle.

Sharon E. Kahn
Assoc. Vice-President, Equity

Excellence

Continued from Page 1

director and founder.

Some COE projects to date include:

- Development of software tools to enable the Workers' Compensation Board's call centre to face problems with staff scheduling and customer waiting times.
- Development of a management queuing tool to help solve production problems for Avcorp Industries, a Richmond-based supplier of aerospace assemblies for aircraft manufacturers such as Boeing, de Havilland and McDonnell-Douglas.

COE is sponsoring a new 16-month Master of Science in Business Administration degree program beginning this September.

About 20 students will be admitted to the program next fall and many of them will receive financial support of up to $17,000.

As well as regular classwork, the students will work with a partner organization throughout the school year, serve a four-month internship with the same company and write a detailed report on the results of their projects.

With a $50,000 grant from UBC's Discretionary Research Fund and funding from participating companies, COE is on its way to becoming financially self-sufficient.

Zooplankton

Continued from Page 1

at least reduce gravitational forces for a period long enough to obtain meaningful results," Lewis says. "This is where the space shuttle comes in — a microgravity laboratory that permits examination of the role of gravity in swimming and orientation."

Lewis and Fandrich will send zooplankton skyward in small transparent chambers where their swimming and orientation will be videotaped for study. Half of the plankton will spend the mission in low gravity, while the other half will be subject to gravitational forces similar to those on Earth.

A better understanding of how the world's oceans process carbon can help in determining the magnitude of the greenhouse effect and what can be done to minimize its impact, says Lewis.

Liking and learning mathematics in the intermediate grades is important in preparing children for careers in science and technology. Computer games created by Maria Klawe's research group have helped boys and girls acquire skill and confidence with computers while stimulating their interest in mathematical concepts. Klawe pays particular attention to gender issues because a disproportionate number of girls lose interest in math, science and computers. Klawe's pioneering work brings together teachers and children with researchers in computer science and education.

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THE UNIVERSITY OF BRITISH COLUMBIA

Provost's Office

- **Associate Vice-President, Planning**
- **Associate Vice-President, Academic Programs**

The Provost's Office is being re-organized to provide the planning and leadership required to meet the challenges and opportunities articulated in the TREK 2000 vision document. The Vice-Provost and Associate Vice-President, Faculty Relations positions will be changed to Associate Vice-President, Planning and Associate Vice-President, Academic Programs. Nominations and applications are invited for each position.

Associate Vice-President, Planning

The Associate Vice-President, Planning will report to the Provost and the Vice-President, Research. Responsibilities will include:

- developing budget models for the Provost's portfolio
- planning faculty renewal
- establishing criteria for budget allocation
- analysis of research funding
- benchmarking instruction costs

The Associate Vice-President, Planning, will work closely with the deans and will have support of the Budget and Planning and Research Services staff.

Associate Vice-President, Academic Programs

The Associate Vice-President, Academic Programs, will report to the Provost. The individual will play a leadership role in developing and implementing new approaches to learning and in establishing new educational programs that respond to the needs of students and society. Responsibilities include:

- guiding the development of a learner-centred approach to learning
- facilitating the establishment of programs that are interdisciplinary, interactive, have an international component and integrate research
- developing criteria for evaluating teaching
- overseeing the Faculty Development and Instructional Services Program
- chairing the Advisory Committee on the Teaching and Learning Enhancement Fund
- setting priorities and goals for the use of information technology

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. Applications and nominations should be submitted to Charlotte Passmore in the Provost's Office by Sept. 1, 1998. Applicants should submit current CVs and the names of three referees.

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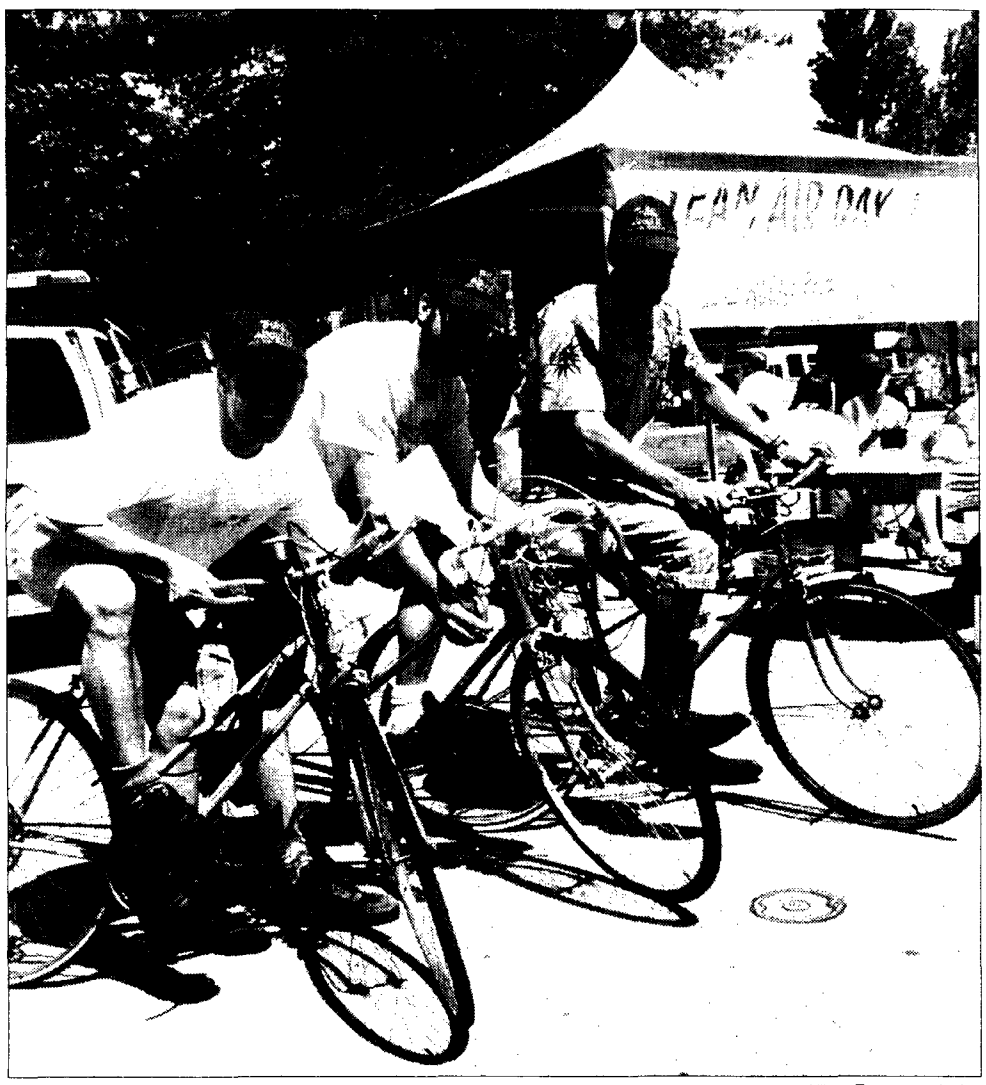


Hilary Thomson photo

Ready for takeoff, cyclists (l-r) Rob MacDonald of the UBC Trek program, Ted Buehler, graduate student in the School of Community and Regional Planning and Richard Andrews of Our Community Bikes!, a non-profit bike shop, show off the first of the AMS Bike Co-op fleet, one of the alternative modes of transportation seen on campus during Clean Air Day.

Commuters clean air in campus challenge

Everyone's able to breathe a little easier thanks to more than 650 registered UBC Commuter Challenge participants who walked, cycled, carpooled or rode the bus to campus recently on Clean Air Day.

Participation tripled from last year with commuters from 45 UBC departments involved.

"Besides registered entrants, we estimate another 2,000 people tried out some alternative transportation mode that day. Once people see how easy it is, we're hoping they might make it a habit,"says Rob MacDonald, a graduate research assistant working with UBC Trek who helped organize the event.

" We're hoping they might make it a habit."

—Rob MacDonald

If commuters use alternative transportation even one day per week, UBC will be able to reach its target of 20 per cent single occupancy vehicle reduction, says MacDonald.

Departments were challenged to have as many participants as possible use environmentally sound transportation on Clean Air Day.

Those taking top prize for participation among departments with 25 or more members included Advanced Materials and Process Engineering, Oral Health Sciences and Civil Engineering.

Taking top place among departments with 24 or fewer members were Purchasing, the Centre for Research in Women's Studies and Gender Relations, the Locksmiths' shop in UBC Plant Operations, the Women Students' Office and the French, Hispanic and Italian Studies Dept. The last four had 100 per cent participation.

The first-ever UBC Great Trekker designations were conferred on Carole Forsythe of Awards and Financial Aid who has made a daily bus commute from Kerrisdale since 1985, and daily bike commuters Dennis Matisz, a project designer at UBC Plant Operations and Maria Erhardt, secretary to the president.

Great Trekkers were nominated by their peers for their excellent track record of using alternative transportation. Nominations were judged by UBC Trek staff members.

A variety of community sponsors provided prizes for the event. Prizes included bike helmets, bike lockers, and transit passes. All participants received coupons for cinnamon buns.

The event, organized by the UBC Trek program, Plant Operations' Waste Management, and the Student Environment Centre, was part of Greater Vancouver Regional District's Bike to Work Week and was designed to help improve local air quality.

UBC's Trek program was created to promote sustainable transportation alternatives at the university and beyond.

The next Clean Air Day will be held in September.

For more information contact the UBC Trek office at (604) 827-TREK, the carpool/vanpool hotline at (604) 827-RIDE or visit the Trek web site at www.trek.ubc.ca.

'Herculean' effort keeps Senate ticking

by Hilary Thomson

Staff writer

A task of Herculean proportions is how some members of Senate describe it.

Fran Medley just calls it her job.

As assistant secretary of Senate for almost three decades, Medley is regarded as the keeper of all knowledge, according to Registrar and Secretary of Senate Richard Spencer.

"The help she gives is rock solid," he says. "She provides wisdom and a steady hand and does it with good humor, too."

Medley

Medley is responsible for a wealth of detail critical to the orderly running of Senate. Since 1969, she has prepared the agenda and minutes of Senate and a number of its committees.

Meeting deadlines, keeping extensive records and having a knowledge of Senate precedent are critical. Since faculty elects a new Senate every three years, Medley provides much-needed continuity, Spencer says.

But she almost didn't take the job.

In 1967, Medley, recently arrived in Canada from Yorkshire, was advised by a neighbor not to take a job at UBC because "they don't pay much."

She decided to find out for herself.

Her first job was in the Ceremonies Office. After two years, she moved to her current position, a job she has held for 29 years. Medley finds that the interaction with people is the best part of the job.

"You have to be a good listener — you need to feel empathy."

Her mother instinct gets triggered, Medley says, when she works with the 17 student senators elected each year.

MP Svend Robinson was a UBC student senator in the early to mid-70s, a time of student unrest. Medley recalls him as an eloquent advocate for students; Robinson recalls her as an inspirational guide.

"She went out of her way to lead me through every nook and cranny of the process — receiving that kind of support meant a lot to me," he says.

He admired Medley's ability to navigate her way through the academic politics of the time — complexities that made Parliament seem like a piece of cake by comparison, he says.

An admitted stickler for accuracy, Medley says the biggest challenge of the job is keeping the records straight for the nine Senate meetings held each year.

Packages of documents can contain as many as 150 pages. Medley has developed an indexing system that allows her to answer queries quickly — an activity she prides herself on.

Expertise in organizing information has also helped Medley in her studies. A part-time student at UBC since 1989, she is just finishing the third year of a bachelor's degree in English.

"It was what I always wanted to do because I felt I'd missed something."

Taking regular classes with students who are about the same age as her grandchildren keeps her feeling young, she says.

The Alma Mater Society gave Medley a Just Desserts award in 1995 in recognition of her support to students. She has also received a 75th Anniversary Medal and the President's Service Award for Excellence.

At the May Senate meeting she was presented with a certificate of merit by President Martha Piper and a watch from the student senators.

Medley retires in October.

Past points to better suburbs, says study

by Stephen Forgacs

Staff writer

Real estate developers and urban planners in Vancouver's suburbs could reduce both cost and environmental impact by revisiting the layout of some of the city's earliest residential developments, a UBC study suggests.

The study, undertaken by Prof. Patrick Condon, who holds UBC's James Taylor Chair in Landscape and Livable Environments, found that by reducing standard parcel size, allowing more than one dwelling unit per lot in some cases, and returning to the traditional block arrangement of narrow streets with permeable, unpaved shoulders and lanes, designers could reduce single-family housing costs by as much as 30 per cent while reducing environmental impact primarily related to run-off.

"There really isn't any mystery to this," says Condon. "Traditional neighborhoods built before World War II commonly supplied this many homes per acre. It was only when we changed over to wide streets, wide frontages, eliminated lanes, and required deep front yard set-backs that we lost the land-use efficiency we once had."

In the study, Condon compared a typical single-family development in Surrey, B.C. with a more sustainable alternative — a hypothetical plan for a real site, also in Surrey.

By reducing lot size from the suburban standard to 25 to 35 feet by 100 feet developers could fit more than 10 single-family or duplex dwellings, each with private yards, on each acre of land, Condon says.

This increased density has important implications for making municipal services such as transit more workable. Greater density can also make possible convenience stores within walking distance of most homes.

"We will never get people out of cars until we give them something to walk to. People will be forced to use their car to satisfy even their simplest needs unless you have a sufficient number of customers per acre to support frequent transit service and to support a mom and pop store where your kid can get a popsicle," Condon says.

Other features, such as narrow streets bordered by permeable surfaces such as crushed gravel, allow for streetside parking while allowing water to return to the soil and streams before being channeled away in storm drains. This return of moisture to the soil ensures stream levels remain high enough to support fish and other animals year-round.

The size of the homes, whether single-family or semi-detached, also plays an important role in reducing costs, Condon says, adding that slightly smaller homes can still meet the needs of residents.

"The cost of the average home on each site in the study was also dramatically different, with the 2,300-square-foot home on a typical site costing more than 30 per cent more than a home of nearly equal interior space in the more sustainable community," he says.

The study received funding from the Real Estate Foundation of B.C., the City of Surrey, and the Greater Vancouver Regional District, and was jointly sponsored by UBC and the Fraser Valley Real Estate Board.

Condon recently presented the study's findings during a workshop in Surrey to a capacity crowd of planners, engineers, developers, real estate agents and federal, provincial and municipal government representatives and members of the public.

Calendar

July 12 through August 15

Monday, July 13

Green College Member Speakers' Series
The Dark Arts: Campaign Management, Election Ethics and Backroom Shenanigans. Andrew Steele, Political Science. Green College at 5:30pm. Call 822-1878.

Benefit Screening
Smoke Signals. Varsity Theatre 4375 W. 10th Avenue at 7pm. Reception to follow at First Nations Longhouse, 830. Benefits to Evan Adams Health Sciences Bursary. Call for tickets 822-2115.

Tuesday, July 14

Statistics Seminar
Stochastic Comparisons Of Spacings And Order Statistics. Subhash C. Kochar, Indian Statistical Institute. CSCI 301 from 4-5:30pm. Coffee, please bring your own mug. Call 822-0570.

Chalmer's Institute Lecture
Writing To The Spouse From Prison: Dietrich Bonhoeffer and Vaclav Havel. Martin Rumscheidt, Atlantic School of Theology. Vancouver School of Theology Epiphany Chapel at 7:30pm. Free-will offering requested. Call 822-9816.

Wednesday, July 15

Noted Scholars' Lecture
The Return Of Community Values - An Agenda For Centralization And Illiberalism? Mike Bottery, U of Hull. Scarfe 310 at 1:30pm. Call 822-9136.

Thursday, July 16

Board of Governors Meeting
Open Session Begins At 8am. Fifteen tickets are available on a first-come, first-served basis on application to the Board Secretary at least 24 hrs before each meeting. OAB Board and Senate room. Call 822-2127.

Biotechnology Laboratory Seminars
Cell Division In Plant Growth Control. Peter W. Doerner, The Salk Institute. Wesbrook 201 from 3:30-4:30pm. Call Doug Kilburn 822-5115.

Chalmer's Institute Lecture
TBA. Herb George, Native Ministries Consortium. Vancouver School of Theology Epiphany Chapel at 7:30pm. Offering requested. Call 822-9816.

Friday, July 17

Biotechnology Laboratory Seminars
From Genome Maps To DNA Sequence: A Worm's-Eye View Of The Human Genome Project. Marco A. Marra, Washington U. Wesbrook 201 from 12:30-1:30pm. Call Doug Kilburn 822-5115.

Monday, July 20

Green College Member Speakers' Series
TBA. Marcela Saldivia-Berglund, Hispanic and Italian Studies. Green College at 5:30pm. Call 822-1878.

Tuesday, July 21

Noted Scholars' Lecture
Discursive Bias In Administering Education For Diversity. David Corson, Ontario Institute for Studies in Education. Scarfe 310 at 12noon. Call 822-9136.

Chalmer's Institute Lecture
A Feminist In Need Of Names For God. Dorothee Solle, writer and theologian. Vancouver School of Theology Epiphany Chapel at 7:30pm. Offering requested. Call 822-9816.

Chan Centre For The Performing Arts Concert
A Musical Evening With Emil Chau. S.U.C.C.E.S.S. presentation. Chan Shun Concert Hall at 7pm. Call 822-2697 or Ticketmaster 280-3311.

Wednesday, July 22

Asian Centre Exhibition
The Image Of Korean Women. Korean Women Visual Designer's Association Presentation. Asian Centre from 11am-5pm. Continues to Jul. 30. Call 822-0810.

Thursday, July 23

Noted Scholars' Lecture
Educational Standards And Alternative Assessment. John P. Portelli, Acadia U. Scarfe 310 at 12noon. Call 822-9136.

Chalmer's Institute Lecture
The World As Theatre Of God's Glory. Beldan C. Lane, St. Louis U. Vancouver School of Theology Epiphany Chapel at 7:30pm. Offering requested. Call 822-9816.

Chan Centre For The Performing Arts Concert
Baroque Program. Vancouver Symphony Orchestra. Chan Shun Concert Hall at 8pm. Call 822-2697 or Ticketmaster 280-3311.

Friday, July 24

Inauguration Ceremony
The Chinese History And Culture Educational Foundation For Youth (North America). Various speakers from Commerce and Business Administration. Chan Shun Concert Hall at 2:30pm. Call 822-2697

Monday, July 27

Regent College Lecture Series
An Invention Of Influences: On Trying To Live A Writer's Life. Rudy Wiebe, author. Regent College from 9:30-10:30am. Continues to Jul. 30. $160. Call 228-1820.

Green College Member Speakers' Series
Is World Politics Returning To The Middle Ages? New Medievalism In International Relations Theory. Mickey Fabry, Political Science. Green College at 5:30pm. Call 822-1878.

Next calendar deadline:
Aug. 4

Wednesday, July 29

Faculty Mentoring Mini-Retreat
A Time To Connect. Cecil Green Park House from 9:30am-2:30pm. RSVP by e-mail: estelle.paget.ubc.ca or call 822-0831.

Noted Scholars' Lecture
Adult Education, Training And Development In Transition: A South African Perspective. Shirley Walters, U of Western Cape. Scarfe 310 at 1:30pm. Call 822-9136.

Reading By Author
An Evening With Rudy Wiebe: Readings From Stolen Life. Rudy Wiebe, author. Regent College Atrium from 7:30-9pm. Call 228-1820.

Thursday, July 30

Chan Centre For The Performing Arts Concert
Gershwin, Copland, Bernstein. Vancouver Symphony Orchestra. Chan Shun Concert Hall at 8pm. Call 822-2697 or Ticketmaster 280-3311.

Saturday, Aug. 1

Asian Centre Exhibition
Chinese Calligraphy And Painting. Richmond Chinese Calligraphy And Painting Club. Asian Centre from 11am-5pm. Continues to Aug. 8. Call 275-8970 or 822-0810.

Wednesday, Aug. 5

Noted Scholars' Lecture
Eurocentric Values In The Classroom: Are They Related To The Under-achievement Of Minority Students? Duane Brown, U of North Carolina-Chapel Hill. Scarfe 310 at 12noon. Call 822-9136.

Thursday, Aug. 6

Chan Centre For The Performing Arts Concert
Tchaikovsky. Vancouver Symphony Orchestra. Chan Shun Concert Hall at 8pm. Call 822-2697 or Ticketmaster 280-3311.

Monday, Aug. 10

Asian Centre Exhibition
Teachers Association Of Canada Scottish Dancing Teachers Conference. Asian Centre from 9:30am-12:30pm; 2-5pm. Continues to Aug. 22. Call 822-1062.

Thursday, Aug. 13

Noted Scholars' Lecture
Teacher Training Via The Internet In Korea. Young-Kyun Baek, Korean National U of Education. Scarfe 310 at 12noon. Call 922-9136.

Notices

UBC Campus Tours
The School and College Liaison Office offers guided walking tours of the UBC campus most Friday mornings. The tours begin at 9:30am and run for 90 minutes. Interested students must pre-register for the tours at least one week in advance. Call 822-4319.

UBC Botanical Garden Tours
The gardens are open from 10am-6pm. Tours given by The Friends of the Garden every Wednesday and Saturday at 11am. Inquiries (gardens) 822-9666, (shop) 822-4529.

Museum Of Anthropology Exhibitions
Recalling The Past: A Selection Of Early Chinese Art From the Victor Shaw Collection; Vereinigung: Nuuchah-nulth/Gitxsan artist Connie Sterritt; Transitions: A Traveling Exhibit of First Nations And Inuit Art; From Under The Delta: Wet-Site Archaeology In The Lower Fraser Region Of British Columbia; Cannery Days: A Chapter In The Lives Of The Heiltsuk; Hereditary Chiefs Of Haida Gwaii; Attributed To Edenshaw: Identifying The Hand Of The Artist. MOA Cafe now open daily 10am-4pm throughout the summer. Call 822-5087.

BC SMILE
The British Columbia Seniors Medication Information Line (BC SMILE) is a free telephone hotline established to assist seniors, their families and caregivers with any medication-related questions including side effects, drug interactions, and the misuses of prescription and non-prescription drugs when it is not possible to direct such questions to their regular pharmacist or physician. Monday to Friday 10am-4pm. Call 822-1330 or e-mail smileubc@unixg.ubc.ca.

Cut Flower Sale
Every Friday during the summer - carnations, zinnia, aster, sunflower. Wholesale prices. Cut-Cash-Carry. Horticulture Greenhouse from 11am-1pm. Call 822-3283.

UBC Weight Loss Study
We are looking for overweight males/females between the ages of 20-45 to participate in a *new* research study using metabolic stimulants to promote weight loss. For more information, call Romolo 439-0453.

Parent-Child Relationship Study
Mattering To Children. Are you a parent of a child who is still in school? Would you like to help me understand how parents know that they are important? I am conducting a survey of parents' understanding of how they know they matter to their children. Complete the survey at home and return by pre-paid mail. Call Sheila Marshall 822-5672.

Peer Program Recruitment
Canadian UBC students with an urge to become involved in the international community wanted to get together with an international UBC student twice per month and do things during the 1998/99 academic year. Fill out an application form at International House or call 822-5021.

Chan Centre Summer Tours
Monday to Friday at 11:30 am at the Chan Centre for the Performing Arts at UBC (across from the Museum of Anthropology). Meet us in the lobby for a half-hour tour of UBC's newest performing arts gem. To book special tours call 822-2697.

Fetal Alcohol Syndrome Conference
Finding Common Ground: Working Together For The Future. Nov. 19-21 at the Coast Plaza Suite Hotel at Stanley Park. E-mail: elaine@cehs.ubc.ca or call Elaine Liau 822-4965.

UBC Community Sport Summer Programs
UBC Community Sport Services programs provide a unique experience for the development of participants of all ages. Qualified instructors, positive atmosphere, variety of facilities. E-mail: fairplay@unixg.ubc.ca or call 822-3688.

UBC Fencing Club
UBC Fencing Club meets every Wednesday and Friday at 7pm in Osborne Gym A. Learn decision-making, poise and control. Newcomers welcome. Drop-in fee. Leave message at 878-7060.

Science Summer Camps
UBC Physics Outreach Program - Phenomenal Physics. Hennings 208. Continues to Jul. 30. E-mail: Maria Trache at mtrache@physics.ubc.ca or call 822-3675.

Telephone Book Recycling
Phonebooks can be recycled in the paper products bins. For more info. contact Waste Management at recycle@unixg.ubc.ca or 822-3827.

Intercultural Studies
UBC Certificate in Intercultural Studies Summer Institute offers a creative week of focused skills development that combines face-to-face workshops with on-line coaching. August 17-21. Website: http://itrc.cstudies.ubc.ca/summer or call 822-1437.

Morris and Helen Belkin Art Gallery Exhibition
Recent acquisitions to the UBC Photography Collection. Tues.-Fri.: 10am-12noon; Sat-Sun 12noon-5pm. UBC staff, faculty and students free with valid ID. Call 822-2759.

Engineering Day Camp For Kids
GEERing Up! UBC Engineering For Kids. CEME 2206 from 9am-4pm. Week-long. $125/week for children entering Grade 2 to leaving Grade 7.

Hong Kong Women
Young women who are members of Hong Kong astronaut (parents in Hong Kong and children in Canada) or Hong Kong immigrant families (parents and children in Canada) are required for a study examining their personal and family decisions. Call Kimi Tanaka 254-4158 or Dr. Phyllis Johnson 822-4300.

Psychology Research
Dr. Johnston's UBC Psychology Lab is looking for 5-12 year olds for research on the ways younger and older children respond to questions about cartoons and stories with different answer choices. Call 822-9037.

UBC REPORTS

CALENDAR POLICY AND DEADLINES

The *UBC Reports* Calendar lists university-related or university-sponsored events on campus and off campus within the Lower Mainland.

Calendar items must be submitted on forms available from the UBC Public Affairs Office, 310–6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1. Phone: 822-3131. Fax: 822-2684. An electronic form is available on the *UBC Reports* Web page at http://www.publicaffairs.ubc.ca. Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space.

Deadline for the August 13 issue of *UBC Reports* — which covers the period August 16 to September 5 — is noon, August 4.

THE UNIVERSITY OF BRITISH COLUMBIA

Ethical Guidelines for Preferred Supplier Agreements

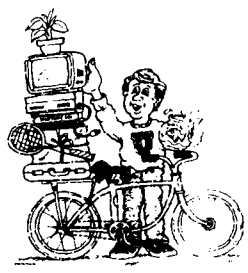
UBC is inviting input from the campus community on the draft *Ethical Guidelines for Preferred Supplier Agreements*. Comments will be incorporated into a revised document for approval by the Board of Governors at their November meeting.

The draft guidelines are available on the World Wide Web at http://www. external-affairs.ubc.ca/ethicguide.html and will be published in *UBC Reports* in September. We welcome your comments to October 9, 1998. You may reach us:

by mail: Business Relations Office
201 - 6328 Memorial Road
Vancouver BC V6T 1Z2

by fax: (604) 822-8102

by e-mail:lisa.fedorak@ubc.ca



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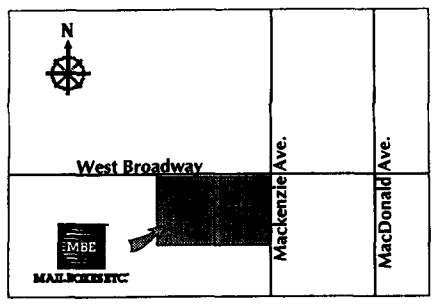

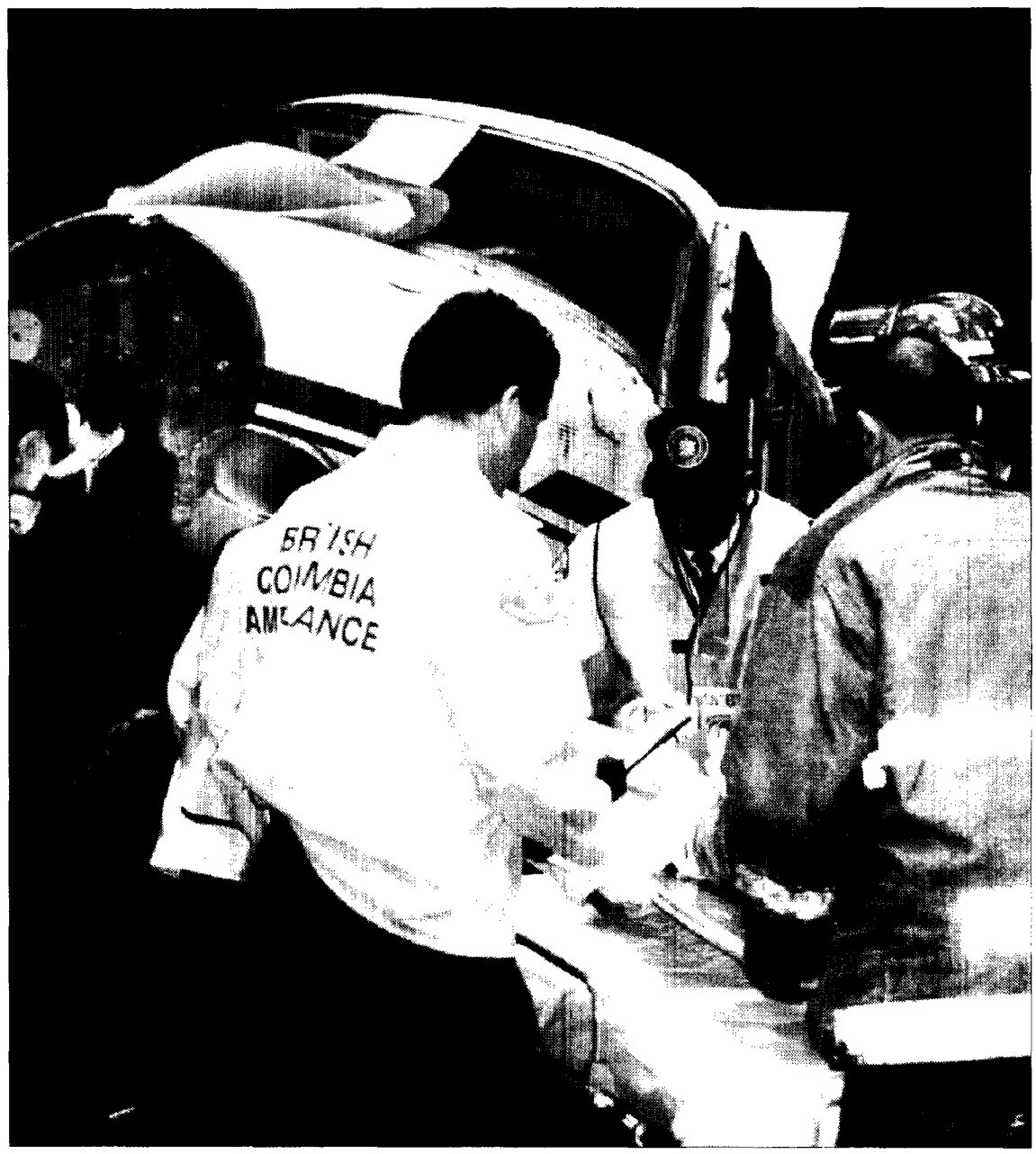

Gavin Wilson photo

Crash Test

A plane crash "victim" is removed from the wreckage by emergency personnel during an emergency scenario held recently on campus. The exercise, in which a commuter plane carrying up to 17 passengers and crew is supposed to have crashed in the forest on UBC's south campus, is aimed at providing an opportunity to test and practise interagency co-operation in an emergency situation. "Scenarios like this provide an important opportunity to test, practise and improve existing plans," says Jody Sydor, UBC's emergency planning co-ordinator. The scenario involved Vancouver Hospital and Health Sciences Centre, B.C. Ambulance Service, RCMP, Vancouver Fire Dept., Vancouver International Airport Authority, and UBC staff from the departments of Health, Safety and Environment, Parking and Transportation and Campus Security, and Public Affairs.

Forum

What will a 21st-century university be?

by Michael Skolnik

Michael Skolnik is a professor at the Ontario Institute for Studies in Education at the University of Toronto. The following is excerpted from a recent colloquium at Green College in which he summarized major themes in current writing on trends in higher education in the 21st century.

In the past few years there have been a number of articles, books, and monographs which purport to describe what higher education will look like in the 21st century.

One of the major themes found in this literature is that the key educational structure of the future may not be the institution at all, but the learning network.

The most catchy versions of the learning network are Internet-related, and technology is usually portrayed as an integral aspect, but the concept is not restricted to electronic interaction.

If networks which cut across post-secondary institutions replace colleges and universities as the principal structures for learning, then the instructional function of higher education will be catching up with where the research function has been for a long time.

A scholar's main lines of communication about her research are with colleagues outside the institution where she is employed. Indeed, some professors may not be able to find anyone at their own institution with whom they can have a serious conversation about their research.

As the instruction function emulates the research function in this manner, though, the consequences for institutions could be quite destabilizing.

In the past, the centripetal force of instructional activity has counterbalanced the centrifugal force of research activity. It will be very hard for the centre to hold when both instruction and research are exerting centrifugal pressure.

Because it is organized through networks, the evaluation of research is done by extra-institutional bodies, such as granting agencies and academic journals, rather than by universities themselves. Academic departments have thus shifted the primary responsibility for making tenure decisions to editorial boards of scholarly journals.

When universities undertake faculty evaluation, the only component of the evaluation which they really do themselves is evaluation of teaching (and service, insofar as anyone bothers evaluating it). If the network replaces the institution as the primary vehicle for learning in the 21st century, then there will be a need for new evaluation mechanisms appropriate to the learning network like we have now for research networks.

This is not just a matter of inspecting the quality of individual courses, although that in itself will be a big job with courses flying through cyberspace like a battle scene from Star Wars.

What could be as important as accrediting individual courses would be attesting that combinations of courses from different suppliers — universities, community colleges, technical institutes, employers, private course vendors, etc. — fit together with sufficient coherence, breadth, and complementarity to qualify for a certificate, diploma, or degree.

Just as the principal forms of recognition of research come from bodies other than universities, it may well be that in the 21st century, the principal forms of recognition of learning also will come from bodies outside the university.

Accordingly, in the 21st century, the most appropriate agent to award degrees may not be the university, but new agencies which specialize in evaluation, accreditation, and certification.

Post-secondary institutions may be specializing in the production and delivery of components, rather than providing everything that goes into a degree for most learners; and besides, credit for prior learning and for experience is likely to be a normal part of most degrees in future.

Also, as one of many suppliers competing to have their products included in the set of experiences which would constitute some learner's degree, a university will have a conflict of interest if it continues to have the role also of deciding what combination of learning experiences qualify for a degree.

Such a separation of the instructional function from the certification function would be an extension of the practice which already exists with respect to much professional education.

THE UNIVERSITY OF BRITISH COLUMBIA

Honorary degree nominations for 1999

The Tributes Committee is seeking nominations of outstanding candidates for honorary degrees to be awarded in 1999.

Nominations or requests for nomination forms should be mailed to: Secretary, Tributes Committee, c/o Ceremonies and Events Office, 6323 Cecil Green Park Road, Campus Zone 1.

Deadline for nominations is Friday, Aug. 28, 1998.

Technology-based Distributed Learning

Aimed at academics, instructional designers, instructors and program administrators in post-secondary education, the following courses use the Internet to enable participants to learn on-line about technology-based distributed learning. Delivered internationally, these courses represent two of five graduate-level courses which can be taken individually or as part of a UBC Certificate in Technology-Based Distrbuted Learning developed in collaboration with the Monterrey Institute of Technology (ITESM), Mexico. Participants should be highly proficient in English and comfortable with using e-mail, Netscape 3.1 and a computer keyboard. Maximum enrolment is 100 per course with a ratio of 20 participants per instructor.

On-line Courses Start Sept. 8, 1998:

DEV&DESIGN
Developing, designing and delivering technology-based distributed learning.

PLAN&MAN
Planning and managing distributed learning.

Tutors include: Tony Bates, PhD, Mark Bullen, PhD, Tony Kaye, PhD, Diane Janes, MEd

Courses end Dec. 4, 1998.

To register or for more information:
Web: http://itesm.cstudies.ubc.ca/info/
E-mail: heather.francis@ubc.ca

Applications should be received by Aug. 17, 1998
Apply EARLY as enrolment is limited!

UBC

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Classified

The classified advertising rate is $16.50 for 35 words or less. Each additional word is 50 cents. Rate includes GST. Ads must be submitted in writing 10 days before publication date to the UBC Public Affairs Office, 310 – 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1, accompanied by payment in cash, cheque (made out to *UBC Reports*) or internal requisition. Advertising enquiries: 822-3131.

The deadline for the August 13 issue of *UBC Reports* is noon, August 4.

Accommodation

POINT GREY GUEST HOUSE A perfect spot to reserve accommodation for guest lecturers or other university members who visit throughout the year. Close to UBC and other Vancouver attractions, a tasteful representation of our city and of UBC. 4103 W. 10th Ave., Vancouver, BC, V6R 2H2. Call or fax 222-4104.

TINA'S GUEST HOUSE Elegant accommodation in Point Grey area. Min. to UBC. On main bus routes. Close to shops and restaurants. Include TV, tea and coffee making, private phone/fridge. Weekly rates available. Call 222-3461. Fax: 222-9279.

GREEN COLLEGE GUEST HOUSE Five suites available for academic visitors to UBC only. Guests dine with residents and enjoy college life. Daily rate $52 plus $14/day for meals Sun-Thurs. Call 822-8660 for more information and availability.

BROWN'S BY UBC B & B Comfortable and relaxing accommodation close to UBC in quiet area. Quality breakfasts, queen-sized beds, private bath available. Satisfaction assured for your friends or professional guests. Reasonable rates. Call 222-8073.

BAMBURY LANE Bed and breakfast. View of beautiful BC mountains, Burrard inlet and city. Clean, comfortable. Use of living room, dining room, and kitchen. Min. to UBC, shops and city. Daily, weekly and winter rates. Call or fax (604) 224-6914.

UBC CONFERENCE CENTRE Studio and 1 BR guest suites with equipped kitchen, TV and telephone. Centrally located near SUB, aquatic centre and transit. Suites $59-$121. Single rooms with shared bath available to August $30-$33. Call 822-1010.

PENNY FARTHING INN 2855 West 6th. Heritage House, antiques, wood floors, original stained glass. Ten min. to UBC and downtown. Two blocks from restaurants, buses. Scrumptious full breakfasts. Entertaining cats. Views. Phones in rooms. Call 739-9002. E-mail: farthing@uniserve.com.

B & B BY LOCARNO BEACH Walk to UBC along the ocean. Quiet exclusive neighborhood. Near buses and restaurants. Comfortable rooms with TV and private bath. Full breakfast. Reasonable rates. Non-smokers only, please. Call 341-4975.

Accommodation

CAMILLA HOUSE Bed and Breakfast. Best accommodation on main bus routes. Includes television, private phone and bathroom. Weekly reduced rates. Call 737-2687. Fax 737-2586.

ENGLISH COUNTRY GARDEN B & B Warm hospitality awaits you at this centrally located view home. Large rooms with private baths, TV, phones, tea/coffee, fridge. Full breakfast, close to UBC, downtown and bus routes. 3466 W. 15th Ave. Call 737-2526 or fax 727-2750.

ST. JOHN'S COLLEGE Looking for summer accommodation? Private rooms available for visitors attending UBC on academic business. Competitive rates. Meals are included 5 days per week. Call for information and availability 822-8788.

POINT GREY Fully furnished and equipped 2 BR main floor of quiet house. Excellent location near UBC, Jericho Beach, schools and shops. H/W floors, skylights, 2 decks, F/P, D/W, shared W/D. N/S, pets ok. Available Aug. 1 or Sept. 1. $2200 includes util. and cable, discount for year or more. Call 734-4553.

WATERFRONT RETREAT Waterfront cottage, fully winterized, fully-equipped on Mayne Island. Available Sep. 1 '98 to Jun. 30 '99. Choice location. $750/mo. plus util. E-mail Nonie Lyon: nvlyon@pipcom.com or call Geoff Lyon 874-4647

VERY QUIET New 2 BR basement suite 1200 s.f. 4 new appliances. Point Grey area. N/S, N/Pets. $1300 includes heat and hydro. 1 year lease. Aug. 1. Call 228-1057.

ALMA BEACH B & B Beautiful, immaculate, bright rooms with ensuite in elegant, spacious home, 2 blocks to Jericho Beach/ Vancouver Yacht Club. Gourmet breakfast. Central location to downtown/UBC. N/S. Also, private 1 BR vacation garden suite available. Call 221-0551.

DUNBAR AREA Close to UBC and bus. 4 BR, 2 full bath, 5 appliances, basement, and deck. $1700/mo. excluding util. Available Aug. 1. Call 228-1380.

PILLOW AND PORRIDGE GUEST SUITES, 2859 Manitoba Street. Heritage houses, central location, 1, 2, and 3 BR self contained apartments, fully equipped kitchens, theme decorated, telephones, cable tv. Separate entrances. Daily, weekly, monthly rates. E-mail: pillow@uniserve.com, call 879-8977 or fax 879-8966.

Accommodation

LARGE FURNISHED Equipped suite in Kitsilano available for short term summer rentals. Good neighborhood, 2 bus routes, parking, use of W/D. $350-$450/wk., or Bed & Breakfast $65/night. N/S please. Call 734-5734 or pager 667-5544.

2 BR Fully furnished new house in Kitsilano. Antiques, gorgeous view. Available mid-Aug. Everything at your doorstep, UBC, water, downtown. Call 940-2800.

WONDERFUL SAFE Quiet, private, tasteful, furnished accommodation in Kitsilano for visiting profs/grad students. Available Aug. - term/terms. Buses, shops all close by. Call 737-2677.

OVERNIGHT or short term stays while looking for accommodation for the fall term, visiting Vancouver or relatives. Beautiful, furnished, reasonable. Close to UBC, transit, shops. Call 737-2966.

SEPARATE FLOOR Of a Heritage house on the beach in Kitsilano near UBC, buses, theatre, shops, etc. Well appointed, quiet and private. Call 737-2966.

FURNISHED Heritage style townhouse. 2 BR and den, 2 bath, H/W floor, F/P, 2 balconies, 5 appliances, heat and util. included. Available Aug. or Sep. Require 6 mo. and 1 year lease. $2100. Call Rosanne 737-0897.

Accommodation Wanted

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Services

UBC FACULTY MEMBERS who are looking to optimize their RRSP, Faculty pension and retirement options call Don Proteau, RFP or Doug Hodgins, RFP of the HLP Financial Group for a complimentary consultation. Investments available on a no-load basis. Call for our free newsletter. Serving faculty members since 1982. Call 687-7526. E-mail: dproteau@hlp.fpc.ca dhodgins@hlp.fpc.ca.

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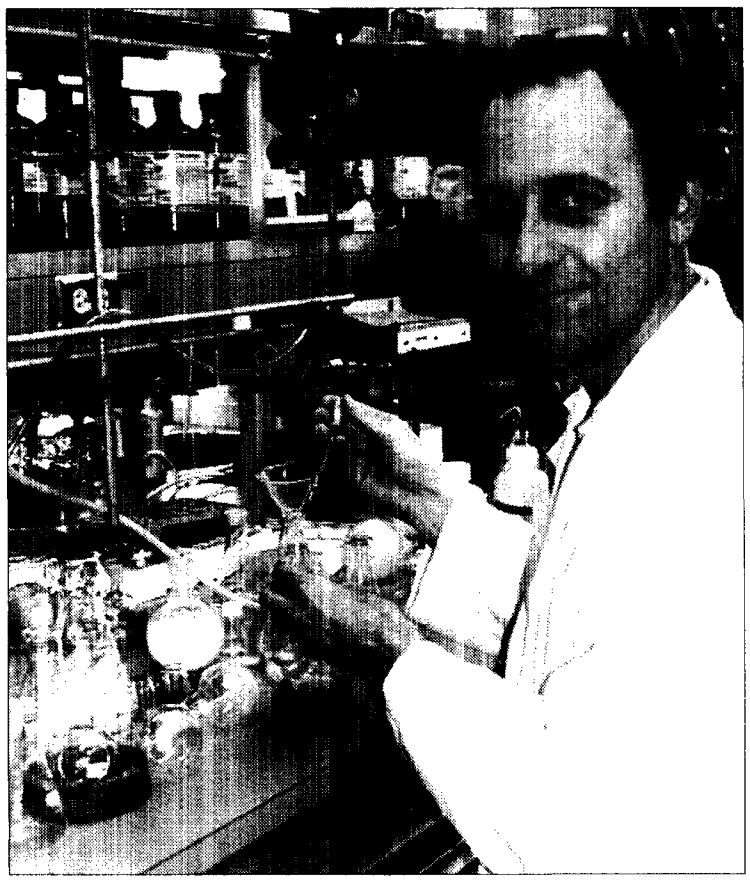

Hilary Thomson photo

Record Recovery

Chemistry graduate student Nick Stoynov was presented with a 1998 Environmental Merit Award from the Dept. of Health, Safety and the Environment for his participation in the solvent recovery program. Stoynov uses recovered acetone to clean glassware in the laboratory. During 1997 and the first quarter of 1998, Stoynov prevented the release into the environment of 500 litres of acetone by reusing the recovered product. Environmental Merit Awards recognize individuals who make a conscious and consistent effort to protect the environment or who reduce the environmental impact of activities at UBC.

English award honours Colbeck

An English Dept. graduate scholarship has been established in memory of Assoc. Prof. Emerita Mabel Mackenzie Colbeck.

A UBC alumna, Colbeck spent 20 years teaching in the department and was regarded as one of its most dynamic and exciting members.

She was best known for teaching English survey courses and was particularly knowledgeable about the ballad writers of her homeland, Scotland. Well into her 80s, she was asked to read the poetry of Robbie Burns at the annual Faculty Club Burns Supper.

Colbeck also worked as a journalist, author and broadcaster, creating a CBC radio program in the early 1940s that focused on women's issues.

Though she officially retired in 1966, she continued to teach until 1971. She died last fall at the age of 98.

Those wishing to contribute to the Mabel Mackenzie Colbeck Graduate Scholarship in English may contact the UBC Development Office at 822-8900 for more information.

New centres concentrate on aboriginal, global health

UBC faculty and students will be tackling health issues from Mount Currie to Mozambique with the establishment of two new health centres — the Institute of Aboriginal Health (IAH) and the Centre for International Health (CIH).

The IAH's primary goal, developed through broad consultation with aboriginal communities in B.C., is to support the education of aboriginal health professionals.

"University-trained aboriginal health professionals are urgently needed since demand outstrips supply, particularly in health services," says UBC Co-ordinator of Health Sciences, Prof. John Gilbert.

A partnership of the First Nations House of Learning (FNHL) and the Office of the Co-ordinator of Health Sciences (OCHS), the institute will develop undergraduate and graduate health sciences courses specifically targeted to aboriginal students. Members will also conduct and co-ordinate research at UBC, and act as advocates and develop a support network for aboriginal health workers in communities throughout B.C. and across Canada.

Research and education activities will integrate aboriginal healing traditions and practices.

"The institute's academic programs and respectful research with First Nations communities will also help to expand the student services and programs we provide in the FNHL's Division of First Nations Health Careers," says Jo-Ann Archibald, director of the FNHL.

International health research, education and services are the focus of the Centre for International Health (CIH). The centre provides a structure for the existing UBC community of faculty and students concerned about world health issues.

"We want to move from pockets of international activities within a number of health-related areas toward a coherent international health strategy," says Gilbert. "The centre will help to demonstrate UBC's commitment to international and global health."

The centre, a unit of the OCHS, will support research spanning several disciplines, organize formal education activities, provide networking and communication forums and promote exchange opportunities for students and faculty.

In Memoriam

Kay Stockholder: 1928-98

Voice for literature and liberties

Kay Stockholder, a professor emerita of English and former president of the B.C. Civil Liberties Association, died of ovarian cancer June 18.

Born in Brooklyn, N.Y., Stockholder charted her own course, attending Hunter College against her mother's wishes and graduating with a BA in English literature. After a brief period when she edited a trade magazine and taught at a girls' school, she went on to get her MA in English literature from Columbia University in New York and then accepted a fellowship at the University of Washington in Seattle.

In Seattle, she began an intellectual romance with Freud and Shakespeare which lasted for the rest of her life.

By the mid-1960s, Stockholder was working full-time in English at UBC. During the next three decades she taught in the English Dept. and the Arts One program, and served terms as a member of the university Senate and the executive of the Faculty Association.

In 1991, four years prior to her retirement from UBC, she became active in the B.C. Civil Liberties Association. She was elected its president in 1995 but stepped down from that post a few months ago due to illness.

She is survived by her partner Norman Epstein, her three children, Jessica, Maia and Peter, and her former husband Fred.

People

by staff writers

Lynn Smith, UBC's dean of Law from 1991-97, has been appointed a B.C. Supreme Court judge. She will replace Supreme Court Justice Kenneth MacKenzie, who has been appointed to the B.C. Court of Appeal.

Smith

Before joining the Faculty of Law faculty in 1981, Smith clerked for the chief justice of B.C. and practiced general litigation with Shrum Liddle and Hebenton in Vancouver. In 1994, *Canadian Lawyer* magazine named Smith one of the 20 most powerful lawyers in Canada.

The appointments were made in June by Federal Justice Minister and Attorney-General Anne McLellan.

• • • • •

UBC Economics Prof. **Jonathan Kesselman** has been honoured with the 1998 Douglas Purvis Prize for excellence in writing on Canadian economic policy. Kesselman received the prize and $10,000 at the recent annual meeting of the Canadian Economics Association in Ottawa.

Kesselman's treatise "General Payroll Taxes: Economics, Politics, and Design" was viewed by the selection committee as a landmark contribution to an area of public finance long neglected by academic and economic policy analysts.

It includes a proposal to replace the GST with a general payroll tax. The selection committee says the monograph, published by the Canadian Tax Foundation, will have a significant and lasting impact on policy thinking about payroll taxes in Canada and abroad.

• • • • •

Fourth-year Arts student **Melanie Little** won $1,500 towards UBC tuition as the grand prize winner in the UBC Bookstore's Read About It! Write About It! Book Review Competition. She reviewed Stuart Mclean's *Stories from the Vinyl Cafe.*

Runners-up Christine Adkins, Brett Gubisic and Michael Lewkonia each received $150 in Bookstore gift certificates.

• • • • •

UBC Electrical Engineering Prof. **Guy Dumont** is the first recipient of the Universal Dynamics Prize for Leadership in Process Control Technology. Dumont pioneered the development of a general purpose "smart" controller for industrial use.

Dumont

The controller is being used in a broad range of commercial industries from pulp and paper to glass manufacturing and brewing.

Universal Dynamics President Steve Hagemoen says Dumont's 20 years of groundbreaking research and technological innovations are dramatically improving the way plants control manufacturing processes.

The Richmond B.C. company supplies high-technology systems and engineering services to heavy industry around the world.

• • • • •

UBC Prof. **Thomas Cavalier-Smith**, a leading botany researcher, has been elected to the Royal Society of London, one of the highest honours in the British academic community.

Cavalier-Smith is internationally known for his work in the area of early molecular evolution. He has reformed the classification of single-celled creatures such as Protozoa and established a sixth kingdom of life, the Chromista, which includes the kelps and other brown seaweeds.

He was inducted into the Royal Society of Canada last November. Cavalier-Smith was educated at Cambridge and London universities and came to UBC nine years ago as a Fellow of the Canadian Institute for Advanced Research (CIAR) Evolutionary Biology Program.

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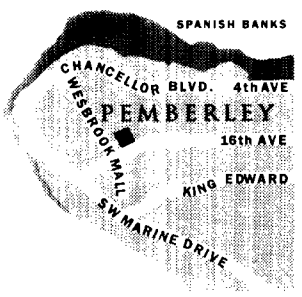

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