

Think About...

for the 21st century

This community report honours both the achievements of 1997/98 and the ideas and innovative thinking of students, staff, faculty and the community who are helping to set the vision for UBC in the 21st century.

For the first time in almost a decade, UBC has engaged in developing its vision for the future and has consulted as widely as possible with individuals both on and off the campus.

A 33-member Community Advisory Council which includes representatives from business, labor, community and cultural groups, as well as provincial and municipal levels of government, has assisted in this visioning process.

Dr. Martha Piper has also visited communities across the province and consulted with students on campus about the direction the university should take in the coming century.

Based on this input, a strategic plan, Trek 2000, has been developed that will be finalized this fall once approved by UBC's Board of Governors.



It has been a year of great change and accomplishment at The University of British Columbia. The following captures a few of the highlights that marked an eventful 1997/98 year.

• The Chan Centre for the Performing • UBC and the Greater Vancouver Arts opened in the spring of 1997, providing a concert hall and learning facility for the campus and the Vancouver community. Residents of the Lower Mainland can now enjoy critically acclaimed performances in Vancouver's newest concert hall.



- UBC's Sing Tao School of Journalism offers Western Canada's first graduate journalism program. September 1997 marked the official opening of the School's building and classes began in the fall of 1998.
- Dr. Martha C. Piper officially assumed her new duties as president of The University of British Columbia Aug. 1, 1997, succeeding Dr. David W. Strangway. Dr. Piper previously served as the vicepresident, Research and External Affairs, at the University of Alberta.
- UBC faculty claim top honours: Some of the country's top teaching, research and achievement awards were presented to UBC's faculty this year. Three UBC professors are among 14 people who received the Order of British Columbia. Three UBC researchers were appointed to the Royal Society of Canada. A UBC professor was one of three Canadians to receive the Canada Council for the Arts' 1998 Killam Prize for research excellence. Another UBC professor was the recipient of the Steacie Prize for young scientists and engineers.

- Regional District (GVRD) have worked together for more than three years to develop an Official Community Plan (OCP) for the university area. This plan has been developed with considerable community input and was officially approved by UBC's Board of Governors and the GVRD's Board of Directors in July 1997.
- In 1997, Rick Hansen and The University of British Columbia created the Rick Hansen Institute with a vision that completely supports Hansen's dream --- to remove barriers that limit people with disabilities from reaching their full potential.



- In September 1997, more than 4,000 first-year students participated in UBC's first-ever orientation for new students. The program, called Imagine '97, was designed to help students make a personal connection with UBC through a series of fun events and workshops for small groups in the same faculty.
- UBC's Nobel prize winner, Michael Smith heads up the first research centre in Canada devoted to decoding human genes. A project of the BC Cancer Agency, the \$25-million Genome Sequence Centre opened in Vancouver in the fall of 1998.
- Both UBC's men's and women's swimming teams made a splash this year, winning both championship titles in the Canadian Interuniversity Athletic Union (CIAU) competition for the first time ever.



- · For the first time in a decade, the UBC Thunderbirds brought home the coveted Canadian university football championship title, the Vanier Cup. The T-Birds defeated the Ottawa Gee-Gees 39-23 in the Canadian Interuniversity Athletics Union (CIAU) championship game in Toronto on Nov. 22, 1997.
- APEC leaders gather at UBC: The Asia-Pacific Economic Cooperation (APEC) Leaders' Meeting brought the heads of the 18 leading economies around the Pacific Rim to Vancouver in the fall of 1997. The economic leaders held their centrepiece meeting at UBC's Museum of Anthropology.

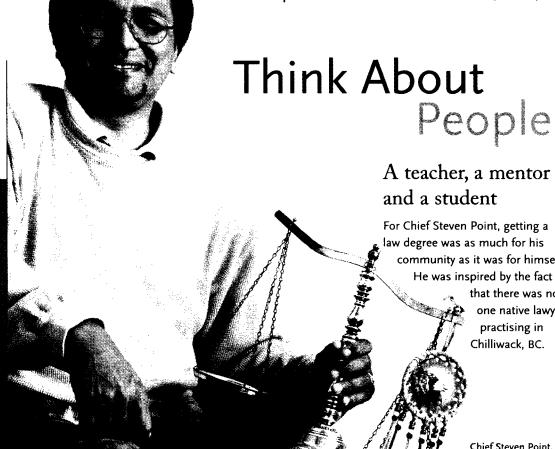
There was a significant anti-APEC demonstration at the meeting, which the RCMP controlled with a considerable degree of force. This is now the subject of an RCMP Public Complaints Commission Enquiry.

• UBC's Research Awareness Campaign Think About It was launched in 1997 to promote the diversity and value of UBC research - one of the most important ways the university serves the people of British Columbia. The research campaign includes a variety of print and radio advertisements, as well as special events and initiatives.

For a comprehensive review of the highlights and stories featured in this report, view UBC's 1997/98 Annual Report at www.publicaffairs.ubc.ca

Thees something weigh

UBC's vision for the 21st century is grouped in five major areas: people, learning, research, community and internationalization. It is in the spirit of these five goals that this report profiles just a few of the remarkable accomplishments of UBC students, staff, faculty and alumni.



A teacher, a mentor

For Chief Steven Point, getting a law degree was as much for his community as it was for himself. He was inspired by the fact

that there was not one native lawyer practising in Chilliwack, BC.

Chief Steven Point, (LLB '85, UBC)

After graduating from UBC's law program in 1985, he returned to Skowkale — the First Nations community in the Fraser Valley where he grew up — to become its chief and first and only lawyer. He has not only helped to introduce many positive changes in the community, but has become an inspiration for others to pursue their dreams.

"I believe that we are all teachers and that we all have something to learn," says Point. "Encouraging young people in my community to pursue higher education is extremely important. I remind them that all it takes is a goal and lots of hard work."

One of Point's key accomplishments has been to develop a constitution that now forms the basis of the Sto:lo Nation's self-governance. He teaches a few university courses

and has also helped to establish several community programs, including a training program for new chiefs and counsellors.

Chief Steven Point is currently working towards a master's degree in Law at UBC.



Think About Research

Weaving together Canada's cultural mosaic

Multiculturalism is an essential part of the fabric of Canada. Studying the existence of racism, how it fits within a multicultural society and how schools and educators should respond is the focus of UBC Education Prof. Kogila Adam-Moodley's research.

"The key to understanding racial inequalities in Canada is to compare how things work differently in other societies," says Adam-Moodley. She believes that looking at similar issues in other countries, such as South Africa and Germany, helps us to learn from the mistakes and experiences with ethnic relations in other parts of the world.

Racism in Canada exists in very subtle forms according to Adam-Moodley. "Multiculturalism education needs to be integrated into all areas of study --- not just separate courses. Students need to learn the analytical skills necessary to understand how racism works and question conventional wisdom."

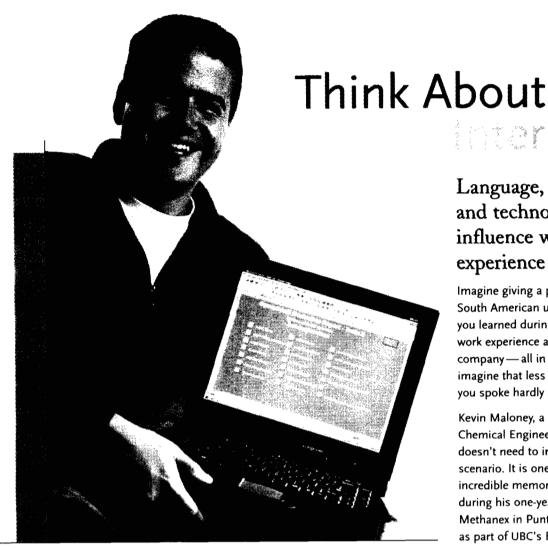
Adam-Moodley is the first holder of the David Lam Chair of Multicultural Education and the former director of UBC's Multicultural Liaison Office. She is currently the president of the International Sociological Association's Research Committee on Ethnic Minority and Race

Relations.

Prof. Jerry Wasserman, Dept. of English

> "Multiculturalism education needs to be integrated into all areas of study not just separate courses. Students need to learn the analytical skills necessary to understand how racism works and question conventional wisdom."

Prof. Kogila Adam-Moodley, **Dept. of Educational Studies**



Kevin Maloney, (BSc, 2000, UBC), Engineering Co-op Program

Think About

Learning

Professor makes learning contagious

If you've ever encountered someone so enthusiastic about what they were doing that you were inspired to go out and do the same thing, then you would agree that learning can be contagious.

That's exactly what the students who take Prof. Jerry Wasserman's classes say about his teaching style. "Prof. Wasserman has the rare ability to make learning contagious," says Julie McCracken, a fourth-year Theatre major.

A UBC professor for more than 25 years, Jerry Wasserman has taught Theatre along with English for the past six. He was recently recognized with UBC's highest teaching honour—a Killam Teaching Prize.

The unique way he teaches Canadian theatre prompted one student to describe him as "having the wisdom of a Buddhist monk, the enthusiasm of a four-year-old and the presence of a rock star."

To warm first-year English students up to literature Wasserman takes well-known pop songs and reviews them as though they were poems. "This helps them understand that poetry is not something alien or incomprehensible," says Wasserman.

His goal is to get students enthusiastic about learning - and according to his students he does just that. "He devours creativity -with a huge appetite for anything out of the ordinary. This makes me want to be a better student," says Karen Ihssen, a fourth-year English major.

Language, culture and technology influence work experience

Imagine giving a presentation at a South American university on what you learned during your recent work experience at a multinational company - all in Spanish. Now imagine that less than a year ago you spoke hardly any Spanish.

Kevin Maloney, a fourth-year Chemical Engineering student, doesn't need to imagine this scenario. It is one of many incredible memories collected during his one-year work term at Methanex in Punta Arenas, Chile, as part of UBC's Engineering Co-operative Program.

Students can apply to work in one of more than 22 countries including Japan, Chile, Australia, Malaysia, Peru, Germany and

Canada — for their co-op work term. The program is designed to provide students with technical skills and experience in another culture and language.

internationalization

"While working abroad you never stop learning," says Maloney. "Every day is a new blend of language, culture and hands-on work experience."

As the first co-op student to work at the Methanex Chilean plant, Maloney has paved the way for other UBC students. "The commitment and enthusiasm shown by Methanex in establishing this position was a real boost to me - as I'm sure it will be for future students who get the same opportunity."

Maloney worked on a range of interesting projects, including the development of a software program that monitors the efficiency of the methanol plant. This program resulted in significant cost-savings for the company and continues to be used today.



Judi Majewski, Volunteer Counsellor, **UBC Women's Resources Centre**

"There are a lot of people in the community around us falling through the cracks. I think we help catch a few at the Women's Resources Centreand that's a very rewarding feeling."

Think About ommunity

A long-standing community resource in downtown Vancouver

People throughout the Lower Mainland rely on a valuable UBC community service for counselling on personal and career planning issues. In fact, no less than 20,000 people every year turn to the services of the UBC Women's Resources Centre.

From its store-front location on Robson Street in downtown Vancouver, the Women's Resources Centre offers drop-in counselling, advice and guidance to women and men in crisis. This year, the centre celebrates 25 years of community service.

More than 100 trained volunteer counsellors provide a number of services to clients who want to make positive changes in their personal and professional lives. Areas in which the counsellors can offer assistance include life

planning, building self-esteem, stress management, career programs and positive relationship skills.

The centre is able to operate thanks to the support of extremely well-educated and talented volunteers, who, if paid, would cost the centre over \$1 million in operation costs.

The University of British Columbia's financial statements for the year ended March 31, 1998 have been reported on by the Auditor General of the Province of British Columbia, the auditor appointed under the University Act. The following represents highlights of UBC's Financial Statements for the year croked March 11, 1998.

(S millions)			1997/98	1996/97
Total Revenue	: S		793.9	749-2
4.7				
Research Awa	iraea to UBC		137.0	134.0
Endowment I	Market Value		579.9	498.4
Operating De	ficit		(2.7)	(1.8)
	San de la company	Service Control	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

- in 1997/98 at the same le as 1996/97.
- The university's investment income increased by \$16.3 million, and sales and services income increased by \$11.3 million in 1997/98.
- nt's 1997/98 🔹 \$23.3 million in scholarsh ير وز إيما،
 - The university's total assets are recorded at a book value of \$1.4 billion.
 - **UBC** has an accumulated operating deficit of \$4.5 million as of March 31, 1998.

Total Revenues

Revenues for the university are generated from a variety of sources, including provincial operating grants, endowments, government grants and contracts, student fees, sales and services, non-government grants, contracts and donations and other investment income. Revenues for the 1997/98 fiscal year totaled \$794 million, with the provincial government operating grant accounting for \$272 million of the total.

Total Expenses and Transfers Expenses for the 1997/98 fiscal year totaled \$797 million, with salaries and benefits accounting for \$478 million of the total

Operating Deficit

The university ended the 1997/98 academic year with an operating deficit of \$2.7 million. The deficit results from a new sewerage charge retroactive to 1996/97 pursuant to an agreement between UBC and the Greater Vancouver Regional District. When this deficit is combined with the 1996/97 operating deficit of \$1.8 million, the accumulated operating deficit is \$4.5 million. This deficit will be eliminated over the 1999/2000 and 2000/2001 fiscal years.

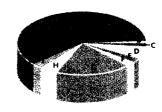
Endowment Highlights

The university's endowment consists \$575 of restricted donations to the university and internal allocations, the principal of which is required to be maintained in perpetuity. The investment income generated from endowments can be spent only in accordance with the various purposes established by the donors or UBC's



Total Revenues by Source (\$794) For the year ended March 31, 1998 (millions of dollars)

- A Government grants and contracts (\$153) 19%
- B Endowment income (\$52) 6%
- C Provincial operating grant (\$272) 34%
- D Other investment income (\$5) 1%
- E Sales and services (\$156) 20%
- F Student fees (\$95) 12%
- G Non-government grants, contracts and donations (\$61) 8%



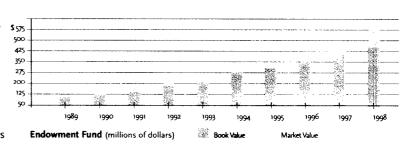
Total Expenses and Transfers (\$797) For the year ended March 31, 1998 (millions of dollars)

- A Salaries and employee benefits (\$478) 60%
- B Grants to other agencies (\$10) 1%
- C Renovations and alterations (\$13) 2%
- D Depreciation (\$49) 6%
- F Other transfers (\$17) 2%
- F Transfer to endowment principal (\$21) 3%
- G Supplies and expenses (\$151) 19%
- H Cost of goods sold (\$35) 4%
- I Student awards (\$23) 3%

Board of Governors. University policy stipulates that the endowment's economic value must be protected. This is achieved by limiting the amount of income that may be expended annually, thereby ensuring growth in endowment purchasing power in the face of inflation.

The endowment has grown significantly over the past 10 years from a book value of \$121.2 million in 1989. In fiscal 1997/98, contributions of \$23 million and capitalized income of \$21.2 million brought the endowment to a total book value of \$470.7 million. The market value of all endowments held for the benefit of UBC is \$579.9 million at March 31, 1998. The overall growth in the endowment is attributable to donations, the leasing of university property for the construction of market housing and return on investments.

The following graph shows the growth of the university's endowment over the



For information call UBC-INFO (822-4636) Monday to Friday, 8:30am-4:30pm.

UBC Calendar of Events: www.ubc.ca under "About UBC"

Asian Centre

822-3114 or 822-4688

Facilities suitable for conferences. seminars, workshops, receptions, exhibitions and cultural performances.

Chan Centre for the Performing Arts 822-9197

State of the art facility for performing arts offers a full range of www.chancentre.com

Community Sports Services

822~3688

Year-round programs for the whole family.

Continuing Studies

822-1444

Non-credit courses in the arts, humanities, sciences, personal and career development, travel, communications, languages. Also degree-credit courses. www.cstudies.ubc.ca

Dental Clinic

822-2112

Supervised dentistry students provide routine and specialized dental services at a reasonable charge.

Legal Clinic

822-5791

Law students provide free legal services and advice for people unable to afford a lawyer.

Morris and Helen Belkin Art Callery

822-2757

Exhibitions and special events related to issues in contemporary art. Open Tuesday to Friday, 10am-5pm; Saturday and Sunday, noon-5pm. Admission by donation. www.arts.ubc.ca/Belkin/gallery.htm

Museum of Anthropology

822-5087

Showcases one of the world's best collections of Northwest Coast native art. Open Tuesday, 11am-9pm (free after 5pm); Wednesday to Sunday, 11am--5pm. www.moa.ubc.ca

Music at UBC

822-5574

With memorable performances by students, faculty and special guests, UBC's School of Music presents audiences with the most varied programming of the Vancouver season.

Nitobe Memorial Garden

822-6038

Considered one of the finest Japanese gardens outside Japan. Open 10am-6pm daily, March to mid-October.

Student Recreation Centre

822-6000

Provides facilities for athletic and recreational activities, including fitness centre, dance studio, gymnasium, intramural sports and recreation.

Theatre at UBC

UBC's Theatre Dept. puts on plays, musicals and other theatrical events. Subscription packages are available.

Thunderbird Athletics

822-2473

Home of the Canadian university football Vanier Cup champions and the men's and women's national championship swimming teams, UBC is a venue for games and competitions throughout the school year. www.athletics.ubc.ca

TRIUMF

222-7355

The world's largest cyclotron, a particle physics research facility jointly run by UBC, Simon Fraser University, University of Victoria and University of Alberta. Tours are available. www.triumf.ca

UBC Aquatic Centre

Schedule information: 822-4521 General information: 822-4522

Olympic-size (50 metre) indoor and outdoor swimming pools. Public swims, reserved swims, swimming lessons, aquatic and general fitness classes.

Astronomical Observatory

822-6186

Telescopes are open for free public stargazing most clear Saturdays, year-round, dusk to midnight. Always call in advance to confirm.

UBC Bookstore

822-2665

Canada's largest university bookstore. Open 9am-5pm, Mon.-Fri., 10am-5pm, Sat., and closed Sundays.

UBC Botanical Garden

HotLine (gardening advice) 822-5858 General info 822-9666

One of Canada's oldest and largest botanical gardens. Open 10am-6pm daily. Admission charge. UBC students free. Group rates or private tours with advance notice.

UBC Conference Centre

822-1060 or 822-1010

Largest university conference centre in Canada. Over 200 meeting rooms and accommodation for more than 3,000 people in four residences. May-August. Year-round accommodation for groups and individual visitors.

UBC Library

822-6375

Open to all. Public may purchase annual library cards. www.library.ubc.ca

UBC Speakers Bureau

822-6167

Speakers provided from faculty and professional staff to address your club, association, class, conference or business group, on selected topics from Sept-April.

UBC Tennis Centre

822-2505

Ten outdoor courts and four indoor courts, available for booking during the season at a nominal rate. Pro shop and racquet-springing service.

UBC Women's Resources Centre 482-8585

A downtown community-based service of UBC Continuing Studies, the Women's Resources Centre offers personal and career planning and development for women and men.



THE UNIVERSITY OF BRITISH COLUMBIA

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October 1998

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UBC President Martha Piper told those attending the university's first annual general meeting downtown Oct. 22 that UBC is poised to become the best university in Canada. More than 200 members of the community as well as representatives from business, labor, education, government and cultural groups attended the meeeting. A campus annual general meeting is scheduled for Nov. 3 from noon to 1 p.m. in the Chan Centre for the Performing Arts.

\$50 million gift to give key boost to research

"The most important

research is often the

most basic research."

Stewart Blusson

UBC alumnus Dr. Stewart Blusson has donated \$50 million to the university, a gift believed to be the largest single donation ever made to a Canadian public institution by an individual or corporation.

"It is an extraordinary gift not simply because of the amount, but because Dr. Blusson has granted us the privilege of

allocating the money specifically to research and academic excellence," says UBC President Martha Piper.

Blusson, a geologist and diamond explorer, completed his Bachelor of Science degree at UBC and is now principal shareholder in Archon Minerals Ltd., a mining explora-

tion company based in Vancouver.

"The most important research is often the most basic research, which the public often doesn't get excited about because by itself, it's simply another piece of the puzzle," says Blusson.

Blusson says his donation was motivated in part by the federal government's creation last year of the \$800-million Canada Foundation for Innovation (CFI) fund.

Designed to help universities, colleges and hospitals upgrade their research facilities, the CFI is a five-year program that covers 40 per cent of the cost of facilities, with the remainder coming from the public and private sectors.

Blusson wants a substantial portion of his \$50-million gift used to attract CFI funding. This strategy brings the value of the gift to about \$150 million over four years.

The donation will not be used for salaries, administration or operations, but rather will support the funding of infrastructure and equipment that will help take UBC to a new level of research and

academic excellence in the 21st century, says

UBC's current annual research budget is about \$130 million.

"Dr. Blusson fervently hopes that his gift encourages others to make donations not only to UBC but to universi-

ties and research institutions in Canada." says Piper. "It is his firm belief that collectively we can and must improve the level of research and academic excellence across the country."

Blusson worked with the Geological Survey of Canada, leading regional geological mapping and research programs in the central Yukon and parts of B.C.

His knowledge of geology led him to conclude that conditions for Canadian diamond deposits were favorable.

By following trails left when the glaciers melted, Blusson discovered a diamond-bearing kimberlite pipe in 1991 in the Lac Gras area north of Yellowknife.

First annual meeting delivers goals to public

More than 200 members of the public as well as representatives from business, labor, education, community groups and government joined UBC President Martha Piper at the University of British Columbia's first-ever annual general meeting

The meeting, held in downtown Vancouver at the Robson Square Conference Centre, updated the community about UBC's goals for the future, key accomplishments of the past year and its finan-

A campus annual general meeting will be held on Tuesday, Nov. 3 from noon - 1 p.m. in the Chan Centre for the Performing Arts.

"UBC belongs to the people of British Columbia," said Piper, "This meeting is an important opportunity to demonstrate the ways the university is helping to meet

the economic, social and cultural needs of the province."

For the first time in almost a decade, UBC has been engaged in developing a vision for the future following extensive consultation with members of the university community and the public.

Input has also been received from a 33-member Community Advisory Council comprising representatives from government, business, labor, and cultural groups.

As well, Piper has traveled throughout the province seeking input from representatives of the provincial and munici-

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Campus meeting: Nov. 3, noon

Award winners improve students' lives

The co-ordinator of a highly successful pilot work internship program for English students is among 13 recent winners of the first student development awards.

The awards, initiated this year by the Campus Advisory Board on Student Devel-

opment (CABSD). recognize contributions made individuals and programs to student experience and the learning environment



Julie Walchli convinced employers of English students' abilities.

Since May, 12 students have been placed in a variety of paid four-month work terms. Employers include the Workers' Compensation Board, Ministry of Advanced Education, and the Self-Counsel Press. The English Dept.

program is scheduled to go to the Board of Governors for final approval this fall.

"I share this award with English faculty members, the co-op students and the employers because they worked with me, investing hours in the design of the program," says Walchli.

Walchli is one of four people to receive the Margaret Fulton Individual

The award also goes to Asst. Hu-



Korchinsky

man Kinet-Prof. Nestor Korchinsky, a man the board describes as someone who "doesn't just talk about changing the campus he makes it happen."

Korchinsky

is credited for leading the Live@UBC team that created seasonal festivals of

See AWARDS Page 2

Inside

Can-do Creator

No door stands in the way of Occupational Therapy student Pamela Andrews

Detoxing Toxins

Profile: Prof. Gail Bellward has gone from baking soda to studying dioxins

"a discovery pipeline for molecular medicine"

MICHAEL HAYDEN

UBC Centre for Molecular Medicine and Therapeutics; Scientific Director, Canadian Genetic Diseases Network



www.research.ubc.ca

First

Continued from Page 1

pal governments, the presidents of post-secondary institutions, business leaders, high school students and UBC alumni.

"Predicting the future is always a risky business," Piper said. "Yet, in today's world it is increasingly understood that institutions that fail to plan for the future are putting themselves at risk."

Named in honour of the Great Trekkers, whose determination led to UBC's creation, the vision document, Trek 2000, sets out the university's five key areas of focus: people, learning, research, community and internationalization.

Piper said UBC is poised to

become the best university in Canada and one of the world's finest public universities.

UBC Chancellor William Sauder, Harold Kalke, chair of UBC's Board of Governors, UBC's five vice-presidents and Arts student Vivian Hoffman, president of the Alma Mater Society, were among the speakers.

Video vignettes of faculty, students, staff and alumni reflected the university's positive impact, both at home and abroad. They included: Law graduate Chief Steven Point, who helped develop a constitution that now forms the basis of the Sto:lo Nation's selfgovernance; Engineering student Kevin Maloney, who has received valuable work experience in Chile through the Engineering Co-operative Program; and English Prof. Jerry Wasserman, whose students find his enthusiasm for learning infectious.

Also featured were Judi Majewski, a volunteer counsellor with UBC Women's Resources Centre who helps people make positive changes in their personal and professional lives and UBC graduate Brad Douville, chief engineer with UBC spin-off company Westport Innovations. The company's diesel bus technology has the potential to improve air quality around the world.

UBC has experienced an eventful year, from the appointment of Piper, to becoming Canadian university football champions, to the opening of the Sing Tao School of Journalism, the first graduate program in journalism in Western Canada.

The year also saw the Asia Pacific Economic Cooperation (APEC) Leaders' Meeting held at UBC's Museum of Anthropology. There was significant anti-APEC demonstration at the meeting and security measures used by the RCMP are now the subject of an RCMP Public Complaints Commission enquiry.

UBC's revenues for the 1997/ 98 fiscal year were \$794 million, with the provincial operating grant accounting for 34 per cent or \$272 million of the total — a decline of \$1.3 million from the previous year.

Domestic student tuition fees were frozen at the same levels as 1996/97. More than 33,000 students studied at UBC in 1997/98.

The university's endowment has grown significantly over the past 10 years to a market value of \$579.9 million. The income generated can be spent only in accordance with purposes established by the donors or UBC's Board of Governors. The principal must be maintained.

A new sewerage charge, levied by the Greater Vancouver Regional District accounted for the university's operating deficit of \$2.7 million. The deficit will be eliminated over the next two fiscal years.

Breakfast with the President

An Invitation

to Faculty and Staff

If you would like to have breakfast with President Martha Piper on Friday, Nov. 13 from 7:30-9:00 a.m. please contact the Ceremonies Office (phone 822-0949 or e-mail mpicher@devoff.ubc.ca) and leave your name, department, position and contact phone number. Ceremonies will then contact the first 20 names received to reconfirm their attendance. Deadline for entries is Friday, Nov. 6 at 4:30 p.m.



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UBC REPORTS

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Awards

Continued from Page 1

social events and activities on

Former Linguistics Dept. secretary Carmen de Silva received a Fulton award for establishing a welcome atmosphere in the Linguistics Dept.

Prof. David Holm, an associate dean in the Faculty of Science, was recognized for providing sensible advice and sympathetic assistance to Science students.

The Alfred Scow Undergraduate Program Award goes to the Science One Program.

The multidisciplinary program, an intensive alternative to the standard first year in Science, aims to give students a sense of being part of a community of learners.

Electro-Mechanical Design, a five-year combined bachelor and master of Engineering program, the first of its kind in Canada, is among the winners of the Peter Larkin Graduate Program Award.

A second winner of the award is Green College, UBC's first resident graduate college, for providing a stimulating program to graduate students.

The Masters of Health Admin-

Pledge to make a difference

Campus campaign chair Eilis Courtney is counting on the pledge forms to take the 1998 UBC United Way campaign to the next step.

"The pledge forms have all been distributed by campus mail, so we need people to fill them out and send them in," says Courtney.

Donors can specify a member agency or pledge to their favourite charity through United Way.

The next event on the United Way calendar, Plant Operations' multicultural barbecue, takes place Oct. 30 from 11:30 a.m.-1:30 p.m. at the University Services Building. Tickets are \$5 at the door.

Student athletes will sell raffle tickets at the final football game Nov. 6. The game starts at 7:00 p.m. The winner will receive half the proceeds with the remainder going to the United Way.

To obtain pledge forms or for more information about any of the United Way events, please call the UBC United Way office at 822-UWAY (8929).

istration (MHA) Bridging program received the Larkin award for its innovative alliance between UBC and the British Columbia Institute of Technology

Imagine UBC, the university's campus-wide orientation program for first-year students received one of five Helen McCrae Student Service awards.

Other McCrae awards went to: the Arts Academic Advising Office for responding to the needs of Arts students through improved counselling, publications and Web access; the International Student Services Office for offering critical support to students making the transition to Canada; the Safer Campus Peer Education Program for dealing with issues such as alcohol abuse, racial discrimination and sexual assault through workshops and special events; and the Totem Park Residence Association, an elected student council, for providing services and programs to residents, and feedback to UBC on student housing issues.

named in honour of former members of the university community who have made major con-

Nominations were made by students, faculty and staff. Winners were selected by the CABSD which includes representatives from across campus.

The CABSD awards are tributions to student life at UBC.

There's something we'd like you to think about

UBC's First Annual General Meeting

You're invited to join UBC President Dr. Martha Piper and the Board of Governors at UBC's first-ever Annual General Meeting. This will be an opportunity for the community to learn more about UBC's accomplishments and highlights over the past year, as well as our financial

UBC campus

Date: Tuesday, Nov. 3, 1998

Time: 12 p.m. - 1 p.m.

Place: Chan Centre for the Performing Arts, 6265 Crescent Rd.

Parking available (Rose Garden Parkade off Northwest Marine Drive)

THE UNIVERSITY OF BRITISH COLUMBIA

TH/nK



Hilary Thomson pho

Faced with a problem existing devices couldn't solve, Occupational Therapy student Pamela Andrews invented her own device, the CAN Opener, to open doors. The device, which cost Andrews less than \$2 to produce, won her first prize in a province-wide health technology contest.

Offbeat

by staff writers



ith winds gusting to 64 kilometres per hour, two-metre waves, high tide, crashing logs and four young women trapped at the bottom of a 60-metre cliff, Campus Security knew they were in for a challenging night.

At 7 p.m a soaking wet and very shaken 15-year-old girl had found her way to the Patrol Office window. She needed help for three friends trapped by the tide and rolling logs on a small stretch of shore south of Tower Beach.

A rapid change in the winds had caught them off-guard. Their 15-foot aluminum boat had hit a rock, throwing them into the water.

Emergency services were called and while communications operator Sherry Sullivan attended to the distraught girl, acting shift supervisor Andy Murphy headed for the cliff with fellow members of the patrol team, Russ Potter, Derek Kane, Joe Boyar, Lee Hirst and Steve Morris.

"Logs were being thrown against the rocky shore," says Murphy. "You'd have to see it to believe how rough it was that night."

The team found the young women cut off by the cliffs and the sea. One was injured. Darkness was approaching.

Within 20 minutes the Canadian Coast Guard's Hovercraft arrived but could not land. Waves shoved it into shore where overhanging tree branches became tangled in the propeller blades and the engines took on water. It had to abandon the rescue.

It was dark now, but the tide was going out.

"We decided to scramble over the logs to reach them," says Murphy.

Dodging waves and picking their way over slippery logs patrol members brought the two uninjured women to safety.

Firefighters, ambulance service workers and two patrol members waded through knee-deep water to get the remaining injured boater onto a stretcher, over logs and rocks, and up the cliff.

"When the high-tech equipment didn't work out," says Murphy, "we just had to work together to get the job done. Any other patrol would have done the same."

Two of the four victims were taken to hospital and later released. The remaining two were picked up by their parents.

Therapy student's invention opens doors

by Hilary Thomson

Staff writer

Doorways are often used to symbolize opportunity and mobility.

But for third-year Rehabilitation Sciences student Pamela Andrews they had become symbols of restriction and frustration following her diagnosis of multiple sclerosis last year.

Opening wide heavy doors was a problem for Andrews, who gets around with the help of an electric scooter.

"I couldn't find a tool to assist me and I tried adapting various existing equipment," says Andrews, who entered the Occupational Therapy program as a mature student. "Finally, I made a wish list of the qualities I needed and made my own device."

Andrews wanted the device to be esthetically pleasing and small enough to carry in her pocket. She also needed it to fit into a student's budget.

Her solution was a mechanism made from backpack strapping lined with the rubberized netting used to line kitchen shelves. Total production cost was \$1.63.

Andrews loops one end of the strap around her upper arm and the other end around the door handle. The end connected to the door turns the knob and she is able to pull the door towards her.

Andrews calls the device the CAN Opener to capture its Canadian origin, function and frequent application in opening the door to the washroom.

The CAN opener won a first prize in Solutions '98, B.C.'s annual health technology contest. Andrews has patented her invention and is working with a consulting company to bring the product to market.

Other devices Andrews has invented include a rig to help her to continue her hobby of stunt kite flying and a special flotation device for her right arm that allows her to swim.

"It's probably the reason I'm in occupational therapy," says Andrews. "I like figuring things out — it's just a part of me."

Andrews also recently won a first prize scholarship of \$2,500 US in an international letter-writing competition that focused on barriers disabled persons must overcome.

Andrews says she views these barriers as hurdles instead of walls and is determined to reach her goal of graduating from the Occupational Therapy program by the year 2000.

The prize included an emergency evacuation device for persons with disabilities that Andrews has donated to UBC's Disabilities Resources Centre.

"We plan to use this donation as part of the university's emergency evacuation plan for persons with disabilities," says the centre's director Janet Mee.

The centre has assisted Andrews by adjusting a wheelchair ramp at the Woodward Biomedical Library, making modifications to a lab and providing her with student note-takers.

Community marks Nov. 11 with memorial service

The foyer of War Memorial Gym will be the setting for UBC's annual Remembrance Day ceremony Nov. 11 beginning at 10:45 a.m.

Barry McBride, vice-president, Academic, Brian Fraser, dean of St. Andrews Hall and Alma Mater Society President Vivian Hoffmann will participate in the ceremony. Retired Nursing faculty member Helen Shore will talk on the role of

nurses in the Second World War.

Representatives from 14 campus and community groups will lay wreaths to honour the fallen members of Canada's Armed Forces. Coffee and cake will be served immediately following the service.

Approximately 350 people attended the Remembrance Day ceremonies last year

New institute zeros in on Europe

The newly opened Institute for European Studies in the Faculty of Graduate Studies aims to be a nerve centre for the study of Europe at UBC.

"The institute must reflect and take advantage of its distinct geographical position as a transitional space — both physically and culturally — between Europe and Asia," says acting director Sima Godfrey.

Next month, the institute will host its first international conference on technology in the workplace as well as help to bring the European Union Film Festival to Vancouver for the first time.

The conference, Transition to the Knowledge Society: Policies and Strategies for Individual Participation and Learning takes place Nov. 4 - 6 at the Westin Bayshore Hotel.

It will address the impact of information and communications technology on the nature of work. Canadian and European academics, politicians and policy makers are expected to attend.

The film festival takes place Nov. 18-Dec. 5 at the Royal Bank Cinema in the Chan Centre for the Performing Arts and at Pacific Cinematheque downtown.

The festival will feature 10 recent subtitled films that have not yet been distributed in North America.

Many of the 30 interdisciplinary units in the Faculty of Graduate Studies are directly involved in research on Europe or comparative European and Canadian issues.

Godfrey says European concerns are also key components in all humanities and social sciences faculties including Law, Commerce and Business Administration and Education.

In its first year the institute plans to host a number of research seminars on questions that speak to the shared concerns and experiences of Canadians and Europeans.

Comparative federalism and the impact of globalization on national cultures and identities are among the possible themes.

One of the institute's longer-term projects is the creation of a master's program in European Studies. Students will spend at least one term at one of UBC's European partner universities.

For more information about the Institute of European Studies and its events check the Web site at www.ies.ubc.ca

Calendar

November 1 through November 14

Sunday, Nov. 1

Chan Centre For The Performing Arts Concert

Band Festival. High school honour bands; Martin Berinbaum, conductor. Chan Centre Chan Shun Concert Hall at 1:30pm. Call 822-2697.

Museum Of Anthropology Artist's Talk

Transitions: Contemporary Canadian Indian And Inuit Art. Shelley Niro. MOA Theatre Gallery at 2pm. Free with regular admission. Call 822-5087.

Green College Outreach Program

Development, Poverty And Hunger? Vinay Gidwani, Economics. Green College at 8pm. Call 822-1878.

Monday, Nov. 2

Mechanical Engineering Seminar

Problem-Based Learning In A Professional Faculty: The Experience Of Dentistry At UBC. Dean Edwin Yen, Dentistry. CEME 1202 from 3:30-4:30pm. Refreshments. Call 822-3770.

Biochemistry Seminar

The Ultimate Analytical Challenge: The Use Of Advanced Capillary Electrophoresis And Mass Spectrometric Methods For Broad, Rapid And Sensitive Measurements Of The Proteome. Dick Smith, Pacific Northwest National Lab. IRC #4 at 3:30pm. Refreshments. Call 822-3341.

Astronomy Seminar

Detecting Massive Black Holes In Galactic Nuclei. Frank van den Bosch, U of Washington. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-2267.

Member Speakers Series

The Populist Turn (Drift?) In Cultural Studies: The Case Of Pornography. Jeff MacIntyre, English. Green College at 5:30pm. Call 822-1878.

Thematic Lecture Series

Ideas Of Tradition In The Life And Work Of Philippe Aries. Patrick Hutton, History, U of Vermont. Green College at 7:30pm. Call 822-1878.

St. John's College Speaker Series

Computer Science - Simple Heuristics That Make Us Smart. Glendon Holst. St. John's College 1080 at 8pm. Call 822-8788.

Tuesday, Nov. 3

UBC's First Annual General Meeting

Martha Piper, president; Board of Governors. Chan Centre for the Performing Arts from 12noon -1pm. Call UBC-INFO (822-4636).

Sing Tao School of Journalism Talk

Can Journalism Be Rehabilitated? Trina McQueen, president, Discovery Channel. Sing Tao 104 at 12noon. Call 822-8747.

Botany Seminar

Of Rice And Radioactive Men. Herbert Kronzucker, Plant Sciences, U of Western Ontario. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Microbiology And Immunology Seminar

Surface Associated Chaperonin Hsp60 Mediates Invasion Of Hela Cells By Legionella Pneumophila. Paul Hoffman, Dalhousie U. Wesbrook 100 from 12:30-1:30pm. Refreshments. Call 822-3308.

Sing Tao School of Journalism Talk

The Role Of Scholarship In Journalism. Wade Davis, author; journalist. Sing Tao 104 at 3:30pm. Call 822-8747.

Peter Wall Institute Complexity Seminar

The Effect Of Latency On The Course Of An Epidemic. Steve Marion, Health Care and Epidemiology. Hennings 318 at 3:30pm. Call 822-3620.

Centre For Applied Ethics Colloquium

The Making Of The Unborn Patient: Fetal Surgery As A Social/Ethical Problem. Monica Casper, U of California. Angus 412 from 4-6pm. Call 822-5139.

Green College Speakers Series

RMS Titanic: A Twentieth-Century Classic. John Wilson Foster, English. Green College at 5:30pm. Reception 4:45-5:30pm. Call 822-1878.

Museum Of Anthropology Book Launch

Hidden Dimensions: The Cultural Significance Of Wetland Archeology. MOA lower lobby at 6:30pm. Call 822-5087.

Rehabilitation Sciences Information Night

Get The Most Current Information About Criteria For Admission To Occupational And Physical Therapy. Faculty, admissions personnel, students. IRC #2 from 7-9pm. Call 822-7392.

Faculty Women's Club Lecture

Alternative Medicine: Facts And Fallacies. Brian Dixon-Warren, chair, Alternative Therapies and Allied Health Committee. Cecil Green Park House main floor at 7:30pm. Refreshments following. Call 264-9022.

Museum Of Anthropology Screening

Honey Mocassin. Shelley Niro. MOA Theatre Gallery at 7:30pm. Call 822-5087.

Cecil And Ida Green Visiting Professor

From The World Of Science To That Of Research. Bruno Latour, Centre de Sociologie de L'innovation de L'ecole Nationale Superieure des Mines de Paris. Green College Graham House at 7:30pm. Call 822-5675.

Wednesday, Nov. 4

Orthopedics Grand Rounds

Spinal Case Presentation. Dr. Marcel Dvorak. Vancouver Hosp/HSC, Eye Care Centre Aud. at 7am. Call 875-4192.

Engineering And Architecture Continuing Education Seminar

Integrated Microelectronics Engineering. Various speakers. Module 1, 2 and 4, AMPEL; module 3, MacLeod 332 from 9am-5pm. \$600-\$3,200 includes materials, lunch, refreshments, certificate. Call 822-3347.

Teaching Community Seminars

Introduction To Searching The World Wide Web. David Lam basement Windows Lab A from 9am-12noon. Check-in 8:45am. To register call 822-9149.

School Of Music Concert

Marisa Gaetanne, soprano; Gene Ramsbottom, clarinet; Richard Epp, piano. Music Recital Hall at 12:30pm. Admission \$3 at door. Call 822-5574.

Leon And Thea Koerner - Creative Writing Series

Finding A Publisher. Brian Lam, publisher; Mary Schendlinger, editor; Saeko Usukawa, editor. Green College Coach House at 12:30pm. Call 822-0699.

Asian Studies Speakers Series

Southeast Asian Seminar. Prof. Tineke Hellwig. Asian Centre 604 at 12:30pm. Call 822-3881.

Obstetrics And Gynecology Research Seminars

Two Sides Of The Same Coin...Epithelial To Mesenchymal Transformations In Breast And Ovarian Cancer. Dr. Calvin Roskelley, Anatomy. BC Women's Hosp. 2N35 at 2pm. Call 875-3108.

Geography Colloquium Cecil And Ida Green Visiting Professor

Following The Paper Trail In Arts, Science And Religion. Bruno Latour, Centre de Sociologie de L'innovation de L'ecole Nationale Superieure des Mines de Paris. Geography 229 from 3:30-5pm. Call 822-2663.

Respiratory Research Seminar Series

New Targets For Drug Therapy In Tuberculosis. Dr. Yossef Av-Gay, Infectious Diseases. St. Paul's Hosp. Gourlay Conference Room from 5-6pm. Call 875-5653.

Individual Interdisciplinary Studies Graduate Program

Interdisciplinarity And Science. William Unruh, Physics and Astronomy. Green College at 5pm. Call 822-1878.

St. John's College Speaker Series

Cultural Traditions Of the Sto:lo Nation. Sonnie McHalsie. St. John's College 1080 at 5:15pm. Call 822-8788.

Thursday, Nov. 5

Teaching Community Seminars

Unleashing The Digital Library. Koerner Library Sedgewick Teaching Lab 217 from 9am-12noon. Check-in 8:45am. To register call 822-9149.

Biodiversity And Conservation Seminars

Nest Depredation: A Conservation Whodunnit. Jamie Smith, Centre for Biodiversity Research. Hut B-8 Ralf Yorque Room at 12:30pm. Bring your lunch. Call 822-5937.

Anthropology And Sociology Colloquium

On Gender As A Status Attribute: Theoretical And Methodological Considerations. Martha Foschi; Vanessa Lapointe. ANSO 205 from 12:30-1:30pm. Refreshments. Call 822-2878.

Belkin Art Gallery Curator's And Artist's Talk

Les Fleuves Invisibles/Invisible Rivers. Raymonde April, artist; Nicole Gingras, curator. Lasserre 102 from 12:30-2:30pm. Call 822-2759.

Teaching Community Seminars

Tales From TLEF: Creating My Own Titantic. David Lam basement seminar room from 12:30-2:30pm. To register call 822-9149.

Genetics Graduate Program Seminar

Molecular Genetics Of Sexual Development In C. Elegans. Jonathan Hodgkin, Medical Research Council Laboratory of Molecular Biology. IRC #2 at 3:30pm. Refreshments at 3:15pm. Call 822-8764.

Physics And Astronomy Colloquium

Dynamical Evolution Of Galaxies. Paul Hickson. Hennings 201 at 4pm. Refreshments Hennings 325 at 3:45pm. Call 822-2137; 822-

Policy Issues In Post-Secondary Education In B.C.

New Trends In Israeli Higher Education. Iris Geva-May, Haifa U. Green College at 4:30pm. Call 822-

Agricultural Sciences Lecture

New Routes For Agriculture. Wes Jackson. Chan Centre Royal Bank Cinema from 7:30-8pm. Call 822-1219.

Friday, Nov. 6

Eleventh Annual Health Policy Conference

Determinants Of Health And Impacts On Health And Social Policy. University Golf Club from 7:45am-4:45pm. \$150; Student \$30. Call 822-4969.

Pediatric Grand Rounds

Lennox-Gastaut Syndrome And Generalized Seizures In Children. Dr. Warren T. Blume, Clinical Neurological Sciences, U of Western Ontario. GF Strong Aud. from 9-10am. Call Ruth Giesbrecht 875-2307.

Belkin Art Gallery Exhibition Raymonde April: Les Fleuves

Raymonde April: Les Fleuves Invisibles/Invisible Rivers. Tues.-Fri. from 10am-5pm; Sat.-Sun. 12noon-5pm. Continues to Dec. 20. Free with valid UBC ID. Call 822-2759.

Occupational Hygiene Program Seminar Series

Occupational Noise Exposure In BC Sawmills — A Survey, And Analysis Of Determinants Of Exposure. Hugh Davies. Vancouver Hosp/HSC, UBC, Koerner G279 from 12:30-1:30pm. Call 822-9302.

Pharmaceutical Sciences Seminar

Energy Metabolism Of The Hypertrophied Heart. Dr. Michael F. Allard, Pathology and Laboratory Medicine. Cunningham 160 from 12:30-1:30pm. Call 822-7795.

Cecil And Ida Green Visiting Professor

Should We Protect Nature? Some Difficulties In Political Ecology. Bruno Latour, Centre de Sociologie de L'innovation de L'ecole Nationale Superieure des Mines de Paris. Angus 110 at 12:30pm. Call 822-5675.

Philosophy Lecture

Artificial Intelligence, Scientific Discovery And Space Exploration. Clark Glymour, U of California. Buchanan A-202 at 2:30pm. Call 822-2621.

Chemical Engineering Double-Header Seminar

Directions For Waste Reduction At UBC. Melissa A.J. Felder, Bio-Resource Engineering; Optimization Of Recombinant Protein By The Methylotrophic Yeast Pichia Pastoris. David Files, Bioresource Engineering. ChemEng 206 at 3:30pm. Call

Chalmers Institute Public Lecture

822-3475.

Celebration Of 100 years Of Canadian Mission In Korea. Young Sik Yoo, Religious Studies, U of Toronto. VST 105 at 7:30pm. By donation. Refreshments. Call 822-9815.

Chan Centre For The Performing Arts Concert

Three One-Acts. UBC Opera Ensemble; Nancy Hermiston, director; Richard Epp, conductor. Chan Centre Chan Shun Concert Hall at 8pm. Call Ticketmaster 280-3311 or Chan Centre box office 822-2697.

Saturday, Nov. 7

Teaching Community Seminars

Time And Stress Management. David Lam basement seminar room from 10am-3pm. To register call 822-9149.

Asian Centre Exhibition

East Meets West. Asian Centre from 11am-5pm. Continues to Nov. 12. Call 437-5842; 822-0810

Chan Centre For The Performing Arts Concert

Three One-Acts. UBC Opera Ensemble; Nancy Hermiston, director; Richard Epp, conductor. Chan Centre Chan Shun Concert Hall at 8pm. Call Ticketmaster 280-3311 or Chan Centre box office 822-2697.

Vancouver Institute Lecture

On Seeing Paris As A Whole: The Notion Of Panopticon. Bruno Latour, Centre de Sociologie de L'innovation de L'ecole Nationale Superieure des Mines de Paris. IRC #2 at 8:15pm. Call 822-3131.

Monday, Nov. 9

Iconography Course

Vladislav Andrejev, master Russian icon painter. St. Mark's College from 9am-4pm. Continues to Nov. 14. \$375 US, \$85 US (materials). Call 874-0891.

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 November 12 issue of UBC Reports
—which covers the period Nov. 15 to Nov. 28 — is noon,

Calendar

November 1 through November 14

Cecil And Ida Green Visiting Professor

Risk Perception and Trust: A New Look At Civic Science. Timothy O'Riordan, director, Centre for Social and Economic Research On The Global Environment. Geography 200 at 12:30pm. Call 222,5675

UBC Bookstore Reading

Borderlands: How We Talk About Canada. William New, English. Bookstore mezzanine level at 12:30pm. Call 822-2665.

Mechanical Engineering Seminar

Problem-Based Learning In Engineering At UBC: Next Steps. Peter Lawrence, Electrical Engineering. CEME 1202 from 3:30-4:30pm. Refreshments. Call 822-3770.

Institute Of Applied Mathematics

Reaction-Diffusion Modelling Of Bacterial Colonies. Prof. Masayasu Mimura, Hiroshima U. CSCI 301 at 3:30pm. Call 822-4584.

Biochemistry And Molecular Biology

NMR Spectroscopy And Site Directed Mutagenesis: Partners In The Study Of Transcript Elongation Factor TFIIs And Tumor Suppressor P53. Cheryl Arrowsmith, Ontario Cancer Institute. IRC #4 at 3:30pm. Refreshments. Call 822-3341.

Astronomy Seminar

Hydrodynamics In Cosmology. James Wadsley, U of Washington. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-2267.

Member Speakers Series

Aqueous Two Phase Systems: Theory And Application. Hans-Olof Johansson, Biotechnology Laboratory. Green College at 5:30pm. Call 822-1878.

Green College Lecture

Vision-Guided Intelligent Machines. Prof. Takeo Kanade, Robotics Institute, Carnegie-Mellon U. Green College Coach House at 7:30pm. Refreshments; Buffet \$13.50. Call 822-6291; 822-8660.

St. John's College Speaker Series

The Argentine Tango. Theodore Kolokolnikov. St. John's College 1080 at 8pm. Call 822-8788.

Tuesday, Nov. 10

Asian Studies Speaker Series

The Two Koreas: An Intro. Prof. Don Baker. Asian Centre 604 at 12noon. Call 822-3881.

Microbiology And Immunology Seminar

Gene Expression By Intracellular Salmonella. Cheryl Pfeifer. Wesbrook 100 from 12:30-1:30pm. Refreshments. Call 822-3308.

UBC Bookstore Reading

Anything For A Laugh. Eric Nicol. Bookstore mezzanine level at 12:30pm. Call 822-2665.

Earth And Ocean Sciences Colloquia

Near Surface Seismology. Richard Kellett. Geophysics 260 at 4pm. Call 822-3278.

Peter Wall Institute Complexity/Statistics Seminar

Spatial Statistics, Hierarchical Models, And Massive Datasets. Doug Nychka. National Centre for Atmospheric Research. CSCI301 from 4-5:30pm. Refreshments at 3:30pm, bring your mug. Call 822-0570; 822-3620.

Green College Speakers Series

Freud's Androids: Freud And The Sciences Of Cognition. Clark Glymour, Philosophy, Carnegie Mellon U. Green College at 5:30pm. Reception from 4:45-5:30pm. Call 822-1878.

Engineering And Architecture Continuing Education

Effective Field Review Of Plumbing And Gas Systems. Various speakers. CEME 1212 from 6:30-9:30pm. \$420 includes notes, field trip, certificate. Call 822-3347.

Cecil And Ida Green Visiting Professor

The Post-Kyoto Politics Of Climate Change. Timothy O'Riordan, director, Centre for Social and Economic Research on the Global Environment, U of East Anglia. Green College Graham House at 7:30pm. Call 822-5675.

Wednesday, Nov. 11

Remembrance Day Services

Barry McBride, vice-president, Academic; Brian Fraser, dean, St. Andrews Hall; Vivian Hoffman, president, Alma Mater Society. War Memorial Gym Foyer, 10:45 a.m. Call UBC-INFO (822-4636).

Thursday, Nov. 12

Anthropology and Sociology Colloquium

Archeology And Public Opinion. David Pokotylo; Neil Guppy. ANSO from 12:30-1:30pm. Refreshments. Call 822-2878

Cecil And Ida Green Visiting Professor

The Politics Of The Transition To Sustainability In Europe: Possible Lessons For Canada. Timothy O'Riordan, director, Centre for Social and Economic Research on the Global Environment, U of East Anglia. Green College Coach House at 12:30pm. Call 822-5675.

Earth And Ocean Sciences Colloquium

Thermal And Petrological Structure Of Subduction Zones. Simon Peacock. GeoSciences 330-A at 12:30pm. Call 822-3278.

UBC Bookstore Reading

Yellow Pear. Gu Xiong, Fine Arts. Bookstore mezzanine level at 12:30pm. Call 822-2665.

Physics And Astronomy Colloquium

Evidence For Neutrino Oscillations From The Sun And Accelerators, As Well As The Atmosphere. Peter Rosen, U.S. Dept. of Energy. Hennings 201 at 4pm. Refreshments Hennings 325 at 3:45pm. Call 822-2137; 822-3631.

Fine Arts Lecture

Against The Grain: Making Exhibitions In A Global World. Okwui Enwezor, Art Institute of Chicago. Lasserre 102 at 7:30pm. Call 822-4497.

Friday, Nov. 13

Flu Vaccine

UBC Staff and Faculty. Student Health Service from 8am to 3:45pm. \$10 (cash only). Call 822-7011.

Health Care And Epidemiology Rounds

Smoking Relapse Prevention In Postpartum Women. Joan Bottorf; Joy Johnson; Pamela Ratner, Nursing. Mather 253 from 9-10am. Paid parking available in Lot B. Call 822-2772.

Pediatric Grand Rounds

Thromboembolic Disease In Children - Past, Present And Future. Dr. Maureen Andrew, Pediatrics, McMaster U. GF Strong Aud. from 9-10am. Call Ruth Giesbrecht at 875-2307.

Fish 500 Series

The Role Of Pre-Recruit Pollock In The Bering Sea And North Pacific Ecosystems. Rick Brodeur, National Marine Fisheries Service. Hut B-8 Ralf Yorque Room at 11:30am. Call 822-4329.

Pharmaceutical Sciences Seminar

Calcium Signaling In Vascular Endothelial Cells. Xiaodong Wang, Pharmacology and Therapeutics. Cunningham 160 from 12:30-1:30pm. Call 822-7795; 822-4645.

Germanic Studies Reading And Discussion

Charlotte Strandgaard, Danish writer. Buchanan Penthouse at 12:30pm. Call 822-5158; 822-6403.

UBC Bookstore Reading

Teaching To Wonder, Responding To Poetry In Secondary Classroom And Growing Up Perpendicular On The Side Of A Hill. Carl Leggo, Education. Bookstore mezzanine level at 12:30pm. Call 822-2665.

English, French, Canadian Studies Lecture

Reading And Discussion. Marie-Claire Blais. Buchanan A-202 at 12:30pm. Call 822-4225.

Cecil And Ida Green Visiting Professor

Public Private Partnerships: A New Approach To Integrated Catchment Management In The U.K. Timothy O'Riordan, director, Centre for Social And Economic Research on the Global Environment, U of East Anglia. Geography 214 at 1:30pm. Call 822-5675.

Bio-Resource Engineering Seminar

Environmental Effects Of Hydro Operations On Fish Habitat. Lee Dutta, Fisheries and Oceans. ChemEng 224 at 3:30pm. Call 822-2565.

English, French, Canadian Studies Seminar

Marie Claire Blais In Conversation. Green College Coach House at 3:30pm. Call 822-4225.

Chemical Engineering Weekly Seminar

Methane To Synthetic Gas By Catalytic Partial Oxidation Process. Prof. Xiaojun Bao, U of Petroleum, Beijing. ChemEng 206 at 3:30pm. Call 822-3238

Chan Centre For The Performing Arts Concert

Chamber Strings. Eric Wilson, director. Chan Centre Chan Shun Concert Hall at 8pm. Call 822-5574; 822-2697.

Saturday, Nov. 14

Graduate Students Seminar What You Can Do To Motivate Your Students. FNSC 50 from 9:30am-12:30pm. To register call 822-6827.

Graduate Students Seminar Reluctant Learners: Ideas To Help

You Help Them. FNSC 40 from 9:30am-12:30pm. To register call 822-6827.

Graduate Students SeminarThe Right Question At The Right Time. FNSC 50 from 1:30-4:30pm. To register call 822-6827.

Graduate Students Seminar Enhancing Lectures: They're More Than Just Talk. FNSC 40 from 1:30-4:30pm. To register call 822-6827.

Vancouver Institute Lecture

Environmentalism Is Dead: Long Live Sustainability. Timothy O'Riordan, director, Centre for Social Economic Research on the Global Environment, U of East Anglia. IRC #2 at 8:15pm. Call 822-3131.

Notices

Volleyball

Faculty, Staff and Grad Students Volleyball Group. Every Monday and Wednesday. Osborne Centre Gym A from 12:30-1:30pm. No fees. Drop-ins and regular attendees welcome for friendly competitive games. Call 822-4479 or e-mail kdcs@unixg.ubc.ca.

UBC Zen Society

Each Monday during term (except holidays) meditation session. Asian Centre Tea Gallery from 1:30-2:20pm. All welcome. Call 822-2573.

Testosterone Study Volunteers Needed

Men aged 55-70 with low free testosterone are needed to test the effects of an approved form of oral testosterone (Andriol) on bone mass, body composition and sexual function. Dr. Richard Bebb is the principal investigator. For more information or to sign up for this study please contact Mary-Jo Lavery, RN (study co-ordinator) at 682-2344 ext. 2455.

Museum Of Anthropology Exhibition

Remembering Luboml: Images Of A Jewish Community; Recalling The Past: A Selection Of Early Chinese Art From the Victor Shaw Collection; Vereinigung: Nuuchah-nulth/Gitxsan artist Connie Sterritt; Transitions: Contemporary Canadian Indian And Inuit Art; From Under The Delta: Wet-Site Archaeology In The Lower Fraser Region Of British Columbia; Hereditary Chiefs Of Haida Gwaii; Attributed To Edenshaw: Identifying The Hand Of The Artist. 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.

Women's Nutrition Study

Non-vegetarian, between the ages 19-45 required for a study examining nutrition attitudes and practices. Involves a questionnaire and interview. Will receive a gift certificate for the Bread Garden or Starbucks. Call Terri 209-3281.

Parent-Child Relationship Study

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? Complete a survey in your own home and return your responses by pre-paid mail. Call Sheila Marshall 822-5672.

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.

Next deadline:

noon, Nov. 2

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.

UBC Birding

Join a one-hour birding walk around UBC Campus, every Thursday at 12:30pm. Meet at the Rose Garden flagpole. Bring binoculars if you have them. For details, call Jeremy Gordon 822-8966.

Female Volunteers

Daughters who have returned home to live with their parents are needed for a PhD psychology study. An interview at your convenience is required. Please call Michele 269-9986.

Chan Centre Tours

Free tours of the Chan Centre for the Performing Arts are held every Tuesday at noon. Participants are asked to meet in the Chan Centre lobby. Special group tours can be booked through www.chancentre.com or at 822-1815. For more information please call 822-2697.

Thunderbird Winter Sports

Centre
Public Skating 8:30am-4:30pm.
\$3; free before noon for UBC students. Casual Hockey 8:30am-4:30pm. \$3.75/hr. M-F; free before noon for UBC students. Squash and Racquetball. UBC staff \$7.50/court; UBC students \$6/court. For information call 822-6121.

Got A Stepfather?

17-23 years old? Love him, hate him or indifferent, you qualify. \$10 for 30 min., anonymous questionnaire, student or non-student, mailed survey. Contact gamache@interchange.ubc.ca or Susan at 822-4919.

Faculty Women's Club

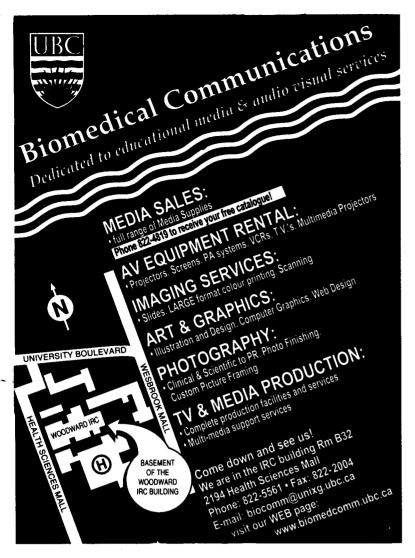
The Faculty Women's Club brings together women connected to the university either through their work or that of the spouses, for social activities and lectures. Its main purpose is to raise funds for student scholarships. There are 18 different interest groups, ranging from art appreciation and bridge to hiking. Do come and join us! Call Louise Klaassen, president 222-1983; Marya McDonald, membership 738-7401.

Wayfinding Study

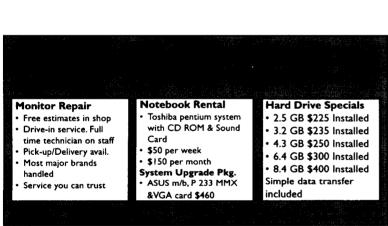
Seeking participants (students and non-students) possessing good computer and mouse skills for a UBC study on Wayfinding in a computer-generated virtual environment. This requires a one-time commitment of two hours, in the Imager lab in the CICSR building, for which you receive \$15. For an appointment, e-mail: Steve at spage@cs.ubc.ca; call 822-2218.

Study

If you've ever had or been threatened with unwanted sexual contact (because of threats, force, alcohol or drugs), and you'd be interested in participating in an interview study, please contact Nichole at 822-9028. All information provided is strictly confidential.







The Madeleine Sophie Barat Award

THE USE OF FREEDOM ESSAY CONTEST 1998/99 Prize: \$1000

Subject: "The Creative and Responsible Use of Freedom"

Choose your own focus, e.g. Literature, Art, Capitalism, Philosophy, the Environment, Interpersonal Relations, Economics, History etc.

Eligibility: Open to third- and fourth-year undergraduate and graduate UBC students.

Deadline for entries: Friday, May 28, 1999

Prize awarded: Friday, Sept. 24, 1999

Application forms may be picked up Monday to Friday, 10 a.m. to 4 p.m. at St. Mark's College, 5935 lona Drive, at the extreme northeast corner of the campus.

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 journal voucher. Advertising enquiries: 822-3131.

The deadline for the Nov. 12 issue of UBC Reports is noon, Nov. 2.

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, B.C., 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. Includes 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 \$54 plus \$14/day for meals Sun-Thurs. Call 822-8660 for more information and availability.

BAMBURY LANE Bed and breakfast. View of beautiful B.C. 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 224-6914.

GAGE COURT SUITES Spacious 1 BR guest suites with equipped kitchen, TV and telephone. Centrally located near SUB, aquatic centre and transit. Ideal for visiting lecturers, colleagues and families. 1998 rates \$85-\$121 per night. Call 822-1010.

PENNY FARTHING INN 2855 West 6th. Heritage house, antiques, wood floors, original stained glass. 10 min. to UBC and downtown. Two blocks from restaurants, buses. Scrumptious full breakfasts. Entertaining cats. Views. Phones in rooms. E-mail: farthing@uniserve.com or call 739-9002.

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.

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 short-term accommodation on campus? 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.

Accommodation

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. Call 221-0551

THOMAS GUEST HOUSE 2395 W. 18th Ave. Visitors and students of UBC are most welcome. 15 min. to UBC or downtown by bus. Close to restaurants and shops. Daily rates from \$50 to \$100. Please call and check it out at 737-2687.

TRIUMF HOUSE Guest house with homey, comfortable environment for visitors to UBC and hospital. Located near hospital. Rates \$40-\$65/night and weekly rates. E-mail: erich@triumf.ca or call 222-1062.

KITS DUPLEX avail. June 15-Sept. 1. Master BR, jacuzzi, den, loft, and 3 decks. Close to shops, movie and buses. N/S, N/P. \$2000/mo. inc. util. Ref. req. E-mail: inge.andreen@ubc.ca or 739-1562.

FALSE CREEK Waterfront 3 BR, 2.5 bath, 1200 s.f. furnished townhouse with spectacular view ocean, mountains, downtown, and city skyline. Enclosed solarium, private jacuzzi, wood burning F/P. Avail. Dec. 1, monthly or long-term. \$4000/mo. incl. util. Call 730-9244.

WEST END beautifully furnished 1 BR condo, minutes from English Bay and Stanley Park West of Denman. Avail. Dec. 1. Monthly rental. \$1600 plus util. Call 730-9244.

DUNBAR unfurnished main floor, 2BR, F/P, W/D. Avail Dec. 1 \$1200/mo. plus util. N/S N/P. Call 736-4464.

Accommodation

apt. Spectacular view. All amenities. Furnished or unfurnished. Avail Jan. 1-June 15. 3527 Pt. Grey Rd. Call Ellen 731-7779.

House Sitter

PROFESSIONAL engineer registered will housesit. N/S, ref. Please call or leave message 421-3209.

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 noload basis. Call for our free newsletter. Serving faculty members since 1982. Call 687-7526. E-mail: dproteau@hlp.fpc.ca dhodgins@hlp.fpc.ca.

TRAVEL-TEACH ENGLISH 5 day/ 40 hr (Nov. 25-29) TESOL teacher certification course (or by correspondence). 1000s of jobs available NOW. FREE information package, toll free (888) 270-2941.

For Sale

SUNSHINE COAST Incredible 5 acre Georgia Strait view property with fabulous 5 BR home and guest cottage. One hour from downtown Vancouver. \$475,000. Call Sharon Petzold, Prudential Sussex Realty 1-888-466-2277.

WESTSIDE spacious sunny 2 BR 1028 s.f. apt. close to UBC and beaches. Northeast view. Beautiful H/W floors. New kitchen and bath. Building extremely well maintained. Affordably priced \$189,000. Call 222-2025.



THE UNIVERSITY OF BRITISH COLUMBIA

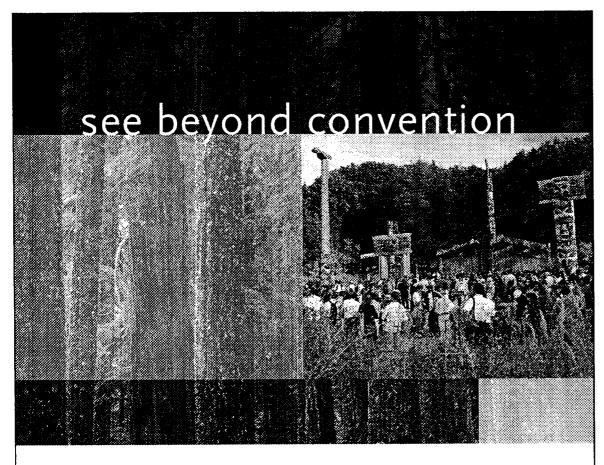
Dept. of Surgery Head

The Faculty of Medicine, University of British Columbia, invites applications and nominations for the position of head of the Dept. of Surgery.

We seek an academic leader, internal to the University, to be responsible for directing and developing the teaching and research service programs of the department. The department has 41 full-time and 195 part-time/clinical faculty members and attracts strong research support. The successful candidate should hold a specialty qualification in surgery, have substantial academic and clinical experience, a proven record of scholarly activity, and a commitment to undergraduate and graduate medical education. Anticipated start date will be July 1, 1999. Salary will be commensurate with experience and qualifications.

The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Applications, accompanied by a detailed curriculum vitae and names of three references, should be directed by Nov. 30, 1998 to: Dr. J.A. Cairns, Dean, Faculty of Medicine, University of British Columbia, Room 317, Instructional Resources Centre, 2194 Health Sciences Mall, Vancouver, B.C. V6T 1Z3.



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by staff writers

ifth-year Mechanical Engineering student and Thunderbird volleyball star Mike Dalziel was recently named the Canada

West Conference's Most Outstanding Academic All-Canadian at a gala dinner hosted by Royal Bank recently in Toronto. The Royal Bank program hon-

ours Canadian Inter-university Athletic Union athletes who maintain a grade point average of more than 80 per cent in a course of fulltime study.

Dalziel was selected over five other candidates.



Dalziel



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THE UNIVERSITY OF BRITISH COLUMBIA

Dept. of Health Care and Epidemiology Head

The Faculty of Medicine, University of British Columbia, invites applications and nominations for the position of head of the Dept. of Health Care and Epidemiology.

We seek an academic leader, internal to the university, to be responsible for directing and developing the teaching and research programs of the department. The department has 26 full-time and 95 clinical faculty members and attracts strong research support. The department offers the following degree programs: MHSc for physicians in epidemiology/biostatistics, community health, and occupational and environmental health, MHA for health administration (in conjunction with BCIT) and MSc/PhD in all disciplinary areas of the department. Candidates should have a proven record of scholarly activity, a strong research background and a commitment to undergraduate and graduate medical education. Anticipated start date will be July 1, 1999. Salary will be commensurate with experience and qualifications.

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Profile

The right mix

Baking soda started Prof. Gail Bellward's career



Prof. Gail Bellward's research helps predict when normally safe drug doses can become toxic and when drug interactions occur. She has also applied her work to environmental toxins ranging from dioxins in blue heron populations to cigarette and wood smoke.

by Hilary Thomson

Staff writer

box of Cow Brand baking soda started Pharmaceutical Sciences Prof. Gail Bellward on a career that has spanned nearly 40 years and recently earned her Canada's top prize for faculty research, the 1997 Janssen-Ortho award.

Bellward, the daughter of a small-town Saskatchewan pharmacist, says she virtually grew up in a dispensary. At her father's side, she conducted her first experiment at age three, pouring baking soda and distilled water into a beaker while her father added a few drops of hydrochloric acid.

The result was a dazzling display of steam and bubbles, all the more impressive since Bellward assumed from the picture on the box that she was adding powdered cow.

"I was hooked with that experiment," says Bellward, who is also the faculty's associate dean, Research and Graduate Studies. "I grew up knowing I was going into pharmacy."

When she became a researcher, Bellward was the only one in Canada working on drug-metabolizing enzymes — specifically, a system of enzymes called cytochrome P-450 — to predict when toxicities or drug interactions will occur. She is still one of only a handful of researchers studying these enzymes.

Drug-metabolizing enzymes make chemicals more water-soluble so the body can excrete them. When production of the enzymes is stimulated or decreased, however, the process may alter significantly making a drug dose that would usually be safe toxic, especially if combined with another drug.

Bellward investigates factors regulating production of these drug-metabolizing enzymes. She has examined this process in relation to therapeutic drugs and environmental toxins.

In a project she describes as the most societally important thing she's

done, Bellward investigated the toxic effects of dioxin, a chemical found in pulp mill effluent.

The great blue heron, a large bird near the top of the food chain, provided the model for dioxin's risk to humans.

A colony of herons nesting near Crofton, a mill town on Vancouver Island, was failing to reproduce and scientists suspected an environmental pollutant was the cause. When researchers tested heron eggs from the site, they found that levels of dioxin had increased threefold in a single year.

ellward and representatives from Environment Canada, the Canadian Wildlife Service, other government agencies, and colleagues in UBC's Faculty of Agriculture Sciences studied how the chemical affected the birds.

Partly as a result of the study, the government drafted stricter regulations concerning pulp mill processing methods. As a result, dioxin levels in the heron eggs dropped by 97 per cent over three years. Bellward calls this outcome "an amazing environmental recovery" that also holds real significance for human health.

She has also studied how the envirotoxin benzopyrene, found in cigarettes as well as wood smoke, and smoke from industrial and domestic incinerators, binds to DNA in cells, resulting in permanent genetic damage and contributing to cancer.

Bellward has also made major contributions to studies of how the

enzyme cytochrome P-450 metabolizes compounds such as fatty acids and acetone that build up in the blood of diabetics. The enzyme, working in the liver, can respond quickly to metabolize various toxins. If the body is processing multiple chemicals, however, it may get what amounts to a busy signal from the liver.

This situation can produce negative side effects as toxins accumulate. Drug metabolism in the diabetic state is the subject of Bellward's most cited paper.

riginally planning to be a community pharmacist, Bellward shifted direction after completing an undergraduate research thesis at UBC. Her investigation focused on how cell components called receptors can combine with a drug to change the body's physiology.

That introduction to research was her first real academic challenge, she says. For the first time she did not know the answers but had to unravel the problem step by step.

In addition to her fascination with the process of research, Bellward is committed to its outcomes.

"The potential payoffs are phenomenal," she says. "We're finding the answers to questions we've been looking at for generations."

She became a permanent UBC faculty member in 1969.

"Prof. Bellward has made an enormous contribution to the faculty," says Pharmaceutical Science's Dean Frank Abbott. "Not only is she a sterling researcher, she has also excelled as a teacher."

When Bellward started her lab, there were few women researchers in pharmacy. She missed having a female mentor and felt she was starting from scratch.

"I didn't have a test tube to my name," she says.

After almost 60 research publications, 84 abstracts and four decades as an investigator, she is clear on what it takes to be a researcher.

"You need a strong psychological make-up," she says. "Science is a process of seeking flaws, of disproving. You need to be tough to withstand continual criticism of your work by both yourself and others."

Her advice for students considering a career in research —

"If you need immediate gratification, forget it! You'll be happier as a clinician."

hen asked about the work she is most proud of, Bellward has no answer. She points out that each discovery is part of a series of steps and that no single finding nor any one researcher holds the ultimate answer.

Her own achievements include a 1988 Isaac Walton Killam Senior Fellowship. She has also served as the first woman president of the Pharmacological Society of Canada and the Society of Toxicology of Canada.

The opportunity to make a difference keeps Bellward motivated. Whether teaching, lobbying or conducting research, she says that you just hope something you do will help alleviate pain and suffering.

Bellward's next major project is to co-ordinate a large interdisciplinary group of colleagues in the faculties of Pharmaceutical Sciences and Medicine to create an advanced drug research centre for women and children — the first of its kind.

"Overall, I do feel that I've made a difference. I feel enormously lucky."