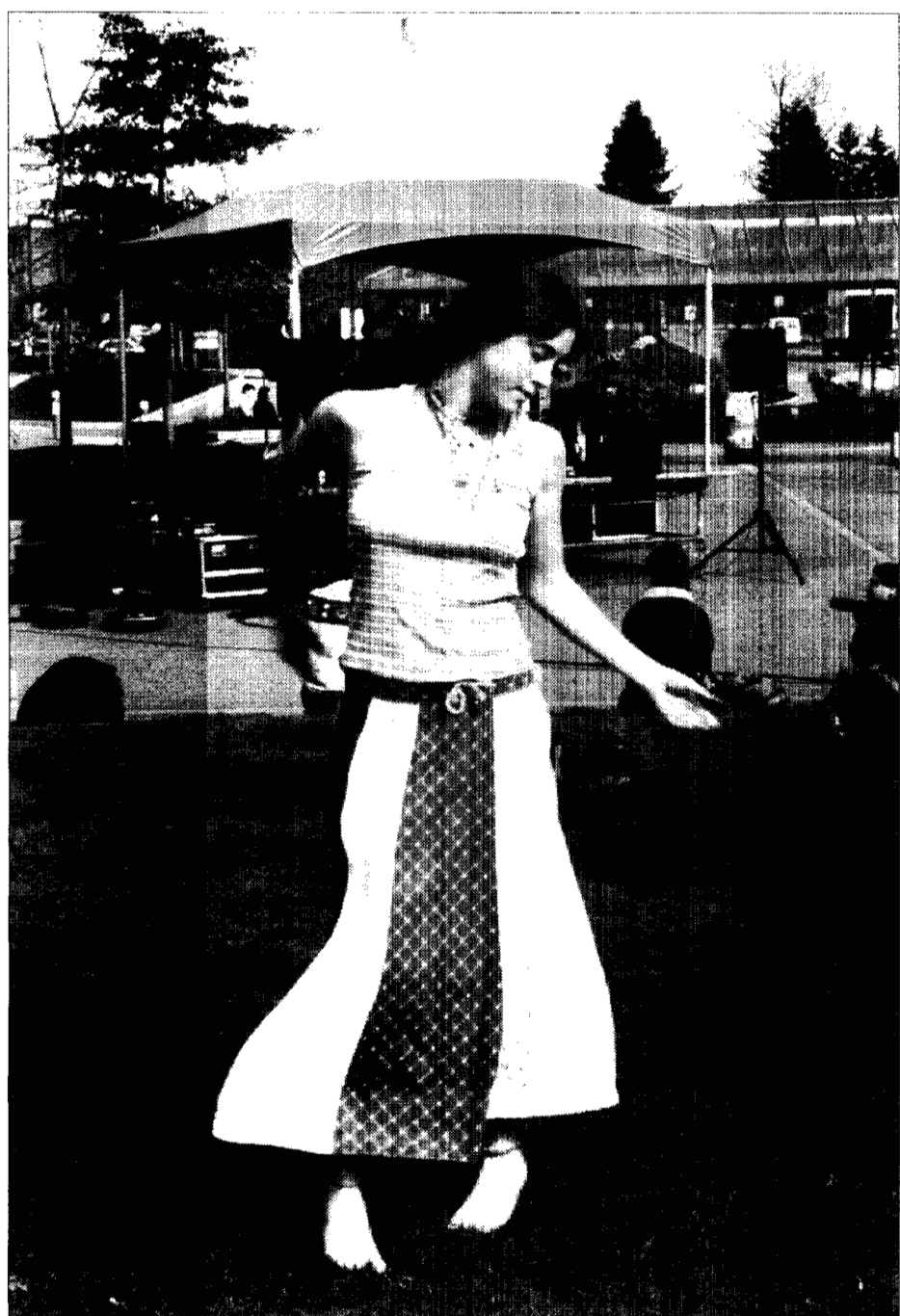


UBC REPORTS

Volume 44, Number 7

April 2, 1998

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



Stephen Forgacs photo

Lawn Dancing

First-year Arts student Stacey S. gets caught up in spring weather and the celtic sounds of the Paperboys (background), a band hired by UBC Waste Management to cap a recent week-long Spring Festival. The festival included dumpster painting and a campus cleanup which saw President Martha Piper join members of the university's Board of Governors to pick up garbage on campus.

Foundation millions go to health research

UBC medical researchers have been granted more than \$3 million of the total \$3.7 million awarded recently by the B.C. Health Research Foundation (BCHRF).

The awards, most in the form of operating grants, support the work of 128 UBC researchers involved in 77 projects in the areas of population health, health services and clinical care and biomedicine.

"We're very pleased with the success of UBC researchers in the recent BCHRF competition," says Bernard Bressler, vice-president, Research.

"This funding encourages both new and established investigators to develop innovative, community-based health re-

search projects."

Awards range in value from \$14,000 for equipment to help study bone density in children to almost \$75,000 to continue investigation of post-traumatic stress disorder following motor vehicle accidents.

Other projects funded include studies of anorexia nervosa and pathological obsessions.

Many projects partner investigators from UBC with their counterparts in the B.C. Cancer Agency and Vancouver Hospital and Health Sciences Centre.

Simon Fraser University received funding for eight projects. The University of Victoria received funding for nine.

UBC reviews Pacific Games proposal

by Stephen Forgacs

Staff writer

UBC is seeking input from the campus and its neighbors prior to making a decision on whether or not it should join the Lower Mainland community in offering a venue for the Pacific Games, which would bring athletes from 43 countries to Vancouver June 16-29, 2001.

"We think there are many advantages to UBC's participation in these games. We also know there are concerns," said Maria Klawe, UBC vice-president, Student and Academic Services, at a UBC public forum held March 30. "We want to provide as many opportunities as possible for community input before we make any recommendations to the Board of Governors on the university's participation."

At the forum, Pacific Games General Manager John Stothart and Klawe outlined the benefits — including \$7-million

upgrades of Empire Pool and improvements to Thunderbird Stadium — and challenges of the proposal. They heard concerns from about 25 members of the campus community regarding holding the games during the same summer as the Francophone games, corporate linkages and human rights, and how the games would promote environmental issues.

A community forum aimed at drawing feedback from residents in the University Endowment Lands, Hampton Place, West Point Grey and Dunbar will be scheduled for mid- to late-April, while consultation with UBC student, staff, and faculty groups is ongoing.

The university administration has committed to public consultation prior to making a decision on major international events to ensure those with concerns have an opportunity to voice them and become involved in the decision-making process.

See **GAMES** Page 2

Staff program graduates first group

by Stephen Forgacs

Staff writer

The first 21 UBC staff members to complete certificates in the university's MOST staff training and development program were recognized at a lunch in the First Nations Longhouse March 20.

"We are a team of faculty, staff and students at UBC," President Martha Piper said prior to awarding the certificates. "And when you enhance your skill sets you can't help but make the entire team stronger."

The MOST program was started by the UBC Staff Development Plan and was developed by a staff program com-

mittee in 1993 to provide UBC staff with opportunities to develop and enhance their workplace skills and knowledge.

Maura Da Cruz, MOST program training administrator, said roughly 2,700 people have taken MOST courses. Although the courses are aimed primarily at UBC staff, several faculty members with administrative responsibilities have also participated to improve their administrative or managerial skills. Da Cruz said.

Susanne Schmiesing, administrator of graduate awards in the Faculty of Graduate Studies, was among those

See **MOST** Page 2



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Offbeat: Law student Pete Smith pays his way by being the bad guy

Employed Education

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Everybody gains when co-op students go to work

Heart Smart

9

Health researchers help heart patients get aggressive with their arteries

"separating healthy cells from diseased ones"

DON BROOKS

Pathology and Laboratory Medicine; Chemistry

Think About It.

UBC RESEARCH
www.research.ubc.ca

Games

Continued from Page 1

The games will bring 3,000 to 4,000 athletes to Vancouver to compete in athletics, aquatics, badminton, basketball, boxing, gymnastics, judo, rowing, rugby, skating, soccer, softball/baseball, table tennis, triathlon, and volleyball. Other possible venues include BC Place, GM Place, SFU, Swangard and Nat Bailey stadiums.

The program comprises three components including the games, the Pacific Economic Forum and Sport Exposition, and the Pacific Cultural Festival which will highlight the First Nations as the host culture.

The number of foreign visitors to the games is projected at 15,000 including 10,000 from overseas and 5,000 from the U.S. Spectators at the games could reach a total of 100,000, organizers estimate.

Games organizers have requested exclusive use of the War Memorial Gym, Empire Pool, Thunderbird Stadium and other fields, the Thunderbird Winter Sports Centre, as well as a number of classrooms, meeting rooms, certain parking lots, the Allan McGavin Sports Medicine Centre and university residences.

The first Pacific Games were held in Cali, Colombia, in 1995. The second will take place in Santiago, Chile, in 1999.

MOST

Continued from Page 1

who received a certificate at the ceremony. Schmiesing, who completed the Cecil Green Certificate Program (introduction to leadership and management), said she has been able to apply much of what she learned in the MOST courses to her work thanks in part to the UBC-specific focus of the program.

"Given the complexity of today's workplace, and particularly at an organization like UBC, the MOST program provides an excellent opportunity for professional development as well as unique exposure to job-related issues and training," she said.

MOST consists of five certificate programs, each with five components including workplace culture and values, UBC specific, computer skills, job related, and professional and personal development.

The certificate programs include Nitobe (workplace skills and knowledge), Thunderbird (project management), Cecil Green (an introduction to leadership and management), Ida Green (effective management and leadership), and Pacific Spirit (self-directed learning).

Individual courses cover topics ranging from UBC central agencies to coaching and conflict resolution.

"One of the guiding principles of the MOST program is continuous improvement," said Da Cruz. "In 1995 we redefined the scope of the five certificate programs to make them more university and job specific, and we're continuing to adapt and revise elements of the program as we determine where the needs lie."

The MOST program committee, which is made up of a wide representation of UBC staff members, oversees the program and recommends changes as required.

separating healthy cells from diseased ones

Don Brooks, Aniko Takacs-Cox,
Pathology and Laboratory Medicine;
Chemistry

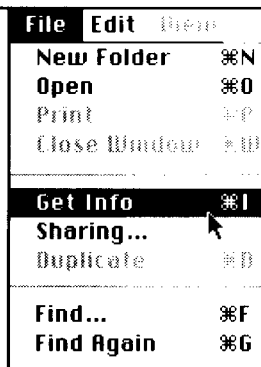
Don Brooks' experiments have flown on four shuttle missions. Building on previous findings, he and Aniko Takacs-Cox are using a separation chamber to investigate how human cells separate in zero gravity. Results will be used to improve techniques on Earth for separating healthy cells from diseased ones. Potential applications include bone marrow transplantation for the treatment of cancers such as leukemia and myeloma.

Think About Space

Think About It.

UBC RESEARCH

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One call may answer all.

THE UNIVERSITY OF BRITISH COLUMBIA
Public Affairs Office



LANGUAGES

French

Spanish

Japanese

Chinese

Italian

Punjabi

Arabic

Greek

Swedish

Non-credit conversational classes start

April 18th

Saturday morning classes for adults

Spanish Immersion Weekend at UBC
May 23-24, 1998

Italian Immersion in Florence, Italy
May 2-24, 1998

822-0800

Language Programs and Services

UBC Continuing Studies

www.cstudies.ubc.ca/languages

Edwin Jackson

224 3540

Experience is that marvelous thing that enables you to recognize a mistake when you make it again. F.P. Jones

INCOME TAX INCOME TAX INCOME TAX

INCOME TAX INCOME TAX TAX INCOME

INCOME TAX INCOME TAX *Je Ne Sais Pas*



THE UNIVERSITY OF BRITISH COLUMBIA

Vision Consultation Forum

for the campus community with President Martha Piper

Friday, April 3, 1998

• 10:00am-12noon,

Chan Centre for the Performing Arts

Since last December, UBC faculty, staff, and students, as well as members of the external community, have been sending in their responses to the Vision contextual document which outlines some of the trends and challenges facing the University as it plans for the 21st century. Those responses have in turn helped to shape the first draft of the University's Vision Statement, an outline of the direction UBC plans to take over the next decade.

All members of the UBC community are invited to an open forum with President Martha Piper to discuss the first draft of the Vision Statement. For more information, visit the Vision Web site at www.vision.ubc.ca.

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Gavin Wilson photo

Poetry in the classroom needn't be boring or difficult, says poet and Education Assoc. Prof. Carl Leggo. In his book, *Teaching to Wonder: Responding to Poetry in the Secondary Classroom*, Leggo gives teachers tips and techniques for bringing poetry to life.

Educator endeavors to quell fear of poetry

by Gavin Wilson

Staff writer

"I wandered lonely as a cloud," the high school teacher singsongs from the front of the classroom. Students slouch at their desks, eyes rolling back into their heads.

Does teaching poetry have to be like this?

Not according to Carl Leggo, the poet and associate professor of Language Education who aims to dispel such notions with his latest book, *Teaching to Wonder: Responding to Poetry in the Secondary Classroom*.

In it, Leggo combines practical techniques and strategies with a theoretical framework he hopes will make poetry more accessible and exciting.

"Of all the genres in literature, teachers and students find poetry the least interesting and the most difficult to come to terms with," Leggo says.

"At least partly, this is because their notion of what poetry is about is too limited. If you open up your definition, poetry can become wonderfully inviting."

Students and teachers alike share misconceptions about what poetry must be, says Leggo, who taught high school for nine years before joining UBC.

Typically, they think it must use heightened language to talk about lofty topics that are difficult to understand. Usually, it's written by people who lived long ago and far away. And of course, it rhymes.

Leggo counters such assumptions with examples of contemporary works that

encompass prose poems, concrete poems, found poems and poems that reflect the lives of all members of society, especially women, who are often under-represented in the teaching of poetry.

These poems include "A History Lesson," a powerful work by Jeannette Armstrong that looks at Canadian history from a First Nations perspective.

"Some of the poems in this book are not very polite — some are even angry — but I think it's important to understand that poetry is alive and vital in the world today," he says.

Instead of trying to divine the author's intent or the "meaning" of the poem, Leggo invites readers to interpret the text through the prism of their own emotions and experience.

"When people actually read poetry with passion and enthusiasm, they realize it's not some arcane text. It's all about life, heart, story, music, how we live in the world. Spend some time with it, hear the music of it, revel in the images, and something exciting and vital takes place."

Leggo's book also provides a summary of key literary theories — reader response, semiotics, deconstruction and cultural criticism — and links them to classroom practice.

"I believe that teachers want theory as well as practical ideas," he says. "They want a good sense of how to create learning opportunities in their classrooms. They don't just want to be handed a recipe card that says, 'This is what you do Monday morning.'"

Teaching to Wonder is published by UBC's Pacific Educational Press.

Offbeat

by staff writers

You could say Pete Smith is a tough guy to pin down. The UBC law student has a master's degree in criminology from Cambridge University and a summer job lined up at a big downtown firm.

But he's also chosen an unusual part-time job to pay his way through school — he's a professional wrestler.

"It was a childhood dream of mine, one that I never outgrew," he says.

Smith fights under the name Randy Tyler, an alias given him by a promoter five minutes before he stepped into the ring for the first time at the age of 17.

At 6-2 and 215 pounds, he's on the small side for wrestling, where 300-pound behemoths in tights stalk the ring, but Smith has shaped a decade-long career with regular matches in Vancouver and Portland and occasional bouts in Japan.

When he enters the ring, fans taunt him by chanting "Archie! Archie!" because they think the redhead resembles comic strip character Archie Andrews.

"I pretend to hate it," Smith shrugs. "My job as the bad guy is to make sure that the good guy gets cheered loudly."

Some of Smith's fellow law students think his wrestling career is funny, others are impressed, but all are intrigued, he says. And of course he's always asked the inevitable



Smith

question, "Is it faked?"

"It's more like ballroom dancing than a staged performance," Smith explains. "One guy leads, the other follows. The goal for both of them is to have a good match that people enjoy."

"It's certainly not as brutal as we lead people to believe, but matches are very competitive — that's what most people don't realize."

Isn't Smith afraid that the legal profession will look down its collective nose at his exploits in the ring?

In fact, Smith thinks it has helped advance his career. Although he thought long and hard before putting it on his resumé, the response was positive.

"You'd be amazed at the interest it generated," he says.

Interviewers were as fascinated with wrestling as they were with his academic credentials, and the second-year student came up with several summer job offers.

Smith's fellow wrestlers, who have names like The Hammer, Moondog Manson, Prince Aladdin, Loverboy and Vic Vicious, are just as mystified by his academic life.

"I'm a total anomaly to them. They're pursuing their dream of making it big and they don't know what to make of me. Some of them will give me a funny look and say, 'What are you doing here?'"

But Smith enjoys the camaraderie of the ring and the cheers of the crowd so he will continue to wrestle — at least as long as the demands of a law career allow.

So until he's called to the bar, it will be no holds barred for Pete Smith.

AMS, Transit partner to bus bikes to campus

Twenty-one new low-floor articulated buses scheduled to go into service this September on the 99 B-Line route will have an added feature, thanks to an arrangement between BC Transit and UBC.

Each of the new buses will be equipped with exterior bicycle racks that allow for the transport of up to two bikes per bus.

The Alma Mater Society (AMS) will contribute \$10,000 from its Innovative Projects Fund towards the cost of purchasing and installing the bike racks on the buses.

The proposal for funding was initiated by UBC's Trek Program, the mission of which is to promote sustainable transportation alternatives at the university and beyond.

The bike racks are attached to the front of the buses. Cyclists are responsible for loading and unloading their bikes.

"As the largest bicycle destination and second largest transit destination in the Lower Mainland, linking the two modes of transportation only makes sense," said Vivian Hoffmann, AMS president. "Our student society is proud to support this initiative toward more sustainable transportation options."

The 99 B-Line is a limited-stop bus service operating in the Broadway-Lougheed corridor between UBC and Lougheed Mall.

In addition to introducing bike-rack-equipped low-floor buses to the route this fall, BC Transit will further enhance peak-period service on the 99 B-Line and extend service into the evening.

Ridership on the B-Line exceeded first-year projections by more than 15 per cent and continues to grow since the service was introduced in September 1996.

Governance study gets underway

A study has begun to define a governance structure for the area that includes the UBC campus, the University Endowment Lands community and Pacific Spirit Regional Park, the Greater Vancouver Regional District has announced.

Residents and property owners of the area known as Electoral Area A currently do not have a locally elected body accountable for services and the taxes they pay to a variety of service providers.

A governance committee has been set up to look at current and future arrangements for local services. The committee will look at previously sug-

gested governance options as well as any other options that may emerge.

The public will have opportunities for input at various stages of the study process.

The committee is chaired by GVRD appointee and Richmond councillor Corisande Percival Smith. Other members are Vancouver councillor Jennifer Clarke, Electoral Area A director Erica Crichton, UBC board member Harold Kalke, University Endowment Lands resident Ron Pears, campus resident Dr. William Phillips and Hampton Place resident Jim Taylor.

Calendar

April 5 through April 18

Sunday, Apr. 5

Museum Of Anthropology Lecture Series

Hong Kong Neolithic And Its Relationship To The Rest Of China. Guo Li, Anthropology and Sociology. MOA at 2pm. (In Cantonese). Call 822-5087.

Chan Centre For The Performing Arts Concert

La Finta Giardiniera By Mozart. UBC Opera Ensemble; UBC Symphony Orchestra. Chan Centre Chan Shun Concert Hall at 2pm. Tickets \$10. Tickets available through Ticketmaster 280-3311.

Monday, Apr. 6

Institute Of Asian Research Seminar

The Role Of Non-Governmental Organizations In Development: Case Study Of An Apparently Successful NGO In Beed District, Maharashtra, India. Vinay Gidwani. CK Choi conference room from 12:30-2pm. Call 822-2746.

Pacific Institute For The Math Sciences Presentation

A Computational View Of Randomness. Prof. Avi Wigderson, Hebrew U (Jerusalem). University Services Media Centre at 3:30pm. Call 822-6324.

Biochemistry And Molecular Biology Discussion Group Seminar

SCF Ubiquitin-Protein Lipases: Permutable Complexes For Cellular Regulation By The Ubiquitin Pathway. Michael Tyers, Samuel Lunenfeld Research Institute, Mount Sinai Hospital. IRC #5 at 3:45pm. Refreshments at 3:30pm. Call Assoc. Prof. Sadowski 822-4524.

Astronomy Seminar

Groups Of Galaxies As Probes Of Cosmology And Galaxy Evolution. John Mulcahey, Carnegie Institute. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-4134.

School Of Social Work Open Presentations

The Future Of Social Work Education In Canada. Prof. Graham Riches. Social Work 124 from 4-6pm.

Green College Resident Speaker Series

Dick And Jane Go To The Polls: The Effects Of Gender On Voting. Andrew Steele, Political Science. Green College at 5:30pm. Call 822-1878.

Science And Society

The Tragicomic History Of Measurement Of Continental Drift. Mott Greene, U of Puget Sound. Green College at 8pm. Call 822-1878.

Tuesday, Apr. 7

Mathematics And Computer Science Colloquium

Tight Trade-Offs Between Hardness And Randomness. Prof. Avi Wigderson, Hebrew U (Jerusalem). CICS/CS 208 from 11:30am-1pm. Refreshments at 11:25am. Call 822-2666.

Microbiology And

Immunology Seminar Series
Immunity, Physiology And Biotechnological Potential Of Aerobic Anoxygenic Photosynthetic Bacteria. Vladimir Yurkov. Wesbrook 100 from 12:30-1:30pm. Call 822-3308.

Integrated Sciences Program

Design Your Own Course Of Study - Let Your Interests Speak! Wesbrook 100 from 2:30-4:30pm. Web site: www.science.ubc.ca/~isp; e-mail isp@unixg.ubc.ca.

Oceanography Seminar

The Effect Of Eelgrass On The Macro And Meio Fauna Distributions On Roberts Bank. Terri Sutherland, Earth and Ocean Sciences. BioSciences 1465 at 3:30pm. Call 822-3278.

Metals And Materials Engineering

Treatment Of Copper-Gold Ores With Ammonium Thiosulfate. Ellen Molleman, Frank Forward 317 from 3:30-4:30pm. Call 822-1918.

Irving K. Fox Lecture Series

Barriers And Bridges To Sustainability In The Lower Fraser Basin. Michael C. Healey. IRC #6 at 3:30pm. Call 822-1482; 822-4705.

Centre For Applied Ethics Colloquium

Places In The Heart: Quiet And Lasting Love. Tom Attig, author. Angus 413 from 4-6pm. Call 822-5139.

St. John's College Invited Speaker Series

The Politics Of Redress In South Africa. Kanya Adam. St. John's College Social Lounge at 5:30pm. Call 822-8788.

Integrated Sciences Program

Design Your Own Course Of Study - Let Your Interests Speak! Vanier Residence Shrum Lounge at 7pm. Web site: www.science.ubc.ca/~isp; e-mail isp@unixg.ubc.ca.

Museum Of Anthropology Lecture Series

Hong Kong Neolithic And Its Relationship To The Rest Of China. Guo Li, Anthropology and Sociology. MOA Theatre Gallery from 7:30-8:30pm. Call 822-5087.

Critical Issues In Global Development

Black Gold, White Heat - State Violence, Community And Development. Michael Watts, Geography, UC (Berkeley). Green College at 8pm. Call 822-1878.

Wednesday, Apr. 8

Orthopedics Grand Rounds

What's New In Osteoporosis. Dr. John Wade. Vancouver Hosp/HSC, Eye Care Centre Aud. at 7am. Call 875-4192.

Obstetrics And Gynecology Research Seminar

Differential Promoter Usage In hGnRHR Gene Expression. Sung Keun Kang, RDS Program. BC Women's Hosp. 2N35 at 2pm. Call 875-3108.

Evolution, Ecology And Biodiversity Seminars

Nutrient Additions As A Restoration Method For Lakes Impacted By Upstream Dams: Trophic Responses Of Zooplankton, Kokanee Salmon And Rainbow Trout. Lisa Thompson. FNSC 60 at 4:30pm. Refreshments Hut B-8 at 4pm. Call 822-3957.

Respiratory Research Seminar Series

Lung Cancer In Women. Dr. Steve Lam, Medicine. Vancouver Hosp/HSC, doctors' residence, 3rd floor conference room from 5-6pm. Call 875-5653.

First Nations Discussion Circle

Counter-Insurgency Or Success? Who Decides About First Nations Artists' Strategies? Charlotte Townsend-Gault. Green College at 5pm. Call 822-1878.

Integrated Sciences Program

Design Your Own Course Of Study - Let Your Interests Speak! Totem Residence Commons Block at 6:30pm. Web site: www.science.ubc.ca/~isp; e-mail isp@unixg.ubc.ca.

Thursday, Apr. 9

Centre For Health Services And Policy Research Seminar

Reproductive Technologies In Canada: Where Are We Now? Prof. Patricia Baird. IRC #414 from 12-1pm. Call 822-4969.

Evolution, Ecology And Biodiversity Seminars

The Genetics Of Speciation In Drosophila: Recent Progress. Allen Orr, U of Rochester. FNSC 60 at 12:30pm. Call 822-3957.

Botany Seminar

The Phylogeny Of Land Plants: David Garbary And Other Stories. David Garbary, Biology, St. Francis Xavier U. BioSciences 2361 from 12:30-1:30pm. Call 822-2133.

Genetics Graduate Program Seminar Series

The Role Of The Basement Membrane Proteoglycan Perlecan/UNC-52 In Muscle Development In The Nematode Caenorhabditis Elegans. Greg Mullen. Wesbrook 201 at 4pm. Refreshments. Call 822-8764.

School Of Social Work Open Presentations

The Future Of Social Work Education In Canada. Prof. Judith Gliberman, U of Toronto. Social Work 200 from 4-6pm.

First Nations Discussion Circle

TBA. John Borrows, Law; Director First Nations Legal Studies. Green College at 4:30pm. Call 822-1878.

Poetic Persuasions

TBA. Carole Langille, poet. Green College at 7:30pm. Call 822-1878.

Community Lecture

Life, Landscape And Regeneration. John Lyle, Director, Institute for Regenerative Landscapes. Planetarium Pacific Space Centre at 7:30pm. Refreshments. Website: www.interchg.ubc.ca/agsci or call 822-2620.

Friday, Apr. 10

Health Care And Epidemiology Rounds

No Rounds.

Pediatric Grand Rounds

No Rounds.

Saturday, Apr. 11

Chan Centre For The Performing Arts Concert

Duo Pekinel, Piano Duo. Guher And Suher Pekinel, Turkish twins. Chan Centre Chan Shun Concert Hall at 8pm. Tickets \$18-\$28; \$18 student/senior. Tickets available through Ticketmaster 280-3311.

Sunday, Apr. 12

Green College Performing Arts Group

An Evening Of Bharata Natyam. Indian Classical Dance with Jai Govinda. Green College at 8:30pm. Call 822-1878.

Monday, Apr. 13

Theatre At UBC

Three One Act Short Plays. Samuel Beckett. Frederic Wood Theatre at 7:30pm. Tickets \$5. Call 822-2678.

St. John's College Resident Speaker Series

Regional Order In Modern Asia: A Historical Overview. Yoichi Nakano. St. John's College Social Lounge at 8pm. Call 822-8788.

Tuesday, Apr. 14

Health And Medicine Lecture Series

Providing Antiretroviral Therapy To Injection Drug Users. Robert Hogg, Manager, BC Centre for Excellence in HIV/AIDS. Green College at 8pm. Call 822-1878.

Wednesday, Apr. 15

Orthopedics Grand Rounds

Osteochondral Lesions Of The Talus: Natural History And Treatment Implications. Dr. C. Shearer; Dr. R.L. Loomer. Vancouver Hosp/HSC, Eye Care Centre Aud. at 7am. Call 875-4192.

Obstetrics And Gynecology Research Seminar

Fibronectin And Pregnancy In The Human. Kelly Tai, RDS Program. BC Women's Hosp. 2N35 at 2pm. Call 875-3108.

Evolution, Ecology And Biodiversity Seminars

Evolution In A Bottle. David Houle. U of Toronto. FNSC 60 at 4:30pm. Refreshments Hut B-8 at 4pm. Call 822-3957.

Respiratory Research Seminar Series

Exacerbations Of Asthma: What Can Sputum Tell Us? Dr. Mark Turner, Medicine. Vancouver Hosp/HSC, doctors' residence, 3rd floor conference room from 5-6pm. Call 875-5653.

Governing Modern Societies

Hyperspace: A Political Ontology Of The Global City. Warren Magnusson, UVic. Green College at 5pm. Reception Graham House from 4:15-5pm. Call 822-1878.

History And Memory: Repositioning The Past (With IISGP)

Frankenstein's Body And Pleasures Of Aesthetics. Richard Etlin, Architecture, U of Maryland. Green College at 7:30pm. Call 822-1878.

Senate Meeting

Regular Meeting Of The Senate. UBC's Academic Parliament. Curtis 102 at 8pm. Call 822-2951.

Chan Centre For The Performing Arts Concert

Angela Au, Piano Recital. Chan Centre Chan Shun Concert Hall at 8pm. Tickets \$21; \$12 student/senior. Tickets available through Ticketmaster 280-3311.

Thursday, Apr. 16

Invited Speaker Seminar

Computer-Supported Collaborative Learning. Mary Beth Rosson. Virginia Polytechnic Institute. CICS/CS 208 from 4-5:30pm. Refreshments. Call 822-0557.

Genetics Graduate Program Seminar Series

Molecular Crop Improvement: Accelerating Introgression Of Genes From A Wild Mustard (Sinapis Alba) Into Canola (Brassica Napus). Mei He. Wesbrook 201 at 4pm. Refreshments. Call 822-8764.

Friday, Apr. 17

Health Care And Epidemiology Rounds

Evaluation Of Acute Care Clinical Program. Dr. Charles Wright, Director, Clinical Epidemiology and Evaluation, Vancouver Hosp./HSC. Mather 253 from 9-10am. Paid parking available in Lot B. Call 822-2772.

Pediatric Grand Rounds

Ethical Dilemmas In Multiple Pregnancy. Dr. Elizabeth Bryan, Medical Director, Multiple Birth Foundation. GF Strong Aud. at 9am. Call 875-2307.

Psychiatry Lecture

The Art Of Child And Adolescent Psychopharmacology. Dr. Stan Kutcher, Dalhousie U. BC Children's Hosp. D-308 from 10:30am-12noon. Call 822-2279.

Geography Colloquium

Environmental Change In The South Pacific Islands: Human And Non-Human Impacts. Patrick Nunn, U of the South Pacific. Geography 229 from 3:30-5pm. Call 822-2663.

Chan Centre For The Performing Arts Concert

B.C. Boys Choir; Vancouver Youth Symphony; Melbourne Youth Symphony. Chan Centre Chan Shun Concert Hall. Tickets \$16; \$14 student/senior. Tickets available through Ticketmaster 280-3311.

Saturday, Apr. 18

Continuing Studies Workshop

He Said - She Said: The Art Of Communication Between The Sexes. Jim Sellner, clinical counsellor. Women's Resources Centre from 10am-4pm. \$75. Call 482-8585.

Next calendar deadline: April 6

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 April 16 issue of UBC Reports — which covers the period April 19 to May 2 — is noon, April 6.

Calendar

April 5 through April 18

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 228-8955.

Parents With Babies

Have you ever wondered how babies learn to talk? Help us find out! We are looking for parents with babies between four to 21 months of age to participate in language development studies. If you are interested in bringing your baby for a one-hour visit, please call Dr. Janet Werker's Infant Studies Centre, Psychology, 822-6408 (ask for Monika).

UBC Medical School

Needs male and female volunteer patients of any age, either healthy or ill to help students learn how to interview and complete a physical examination (external only). The total time for each teaching session is between two-four

hours, Tues-Thurs. p.m. Travel expenses will be paid. Call Vancouver Hospital/HSC 875-5943.

Studies in Hearing and Communication

Senior (65 years or older) volunteers needed. If your first language is English and your hearing is relatively good, we need your participation in studies examining hearing and communication abilities. All studies take place at UBC. Hearing screened. Honorarium paid. Please call the Hearing Lab, 822-9474.

Parents With Toddlers

Did you know your child is a word-learning expert? Help us learn how children come to be so skilled at learning new words! We are looking for children (two-four years old) and their parent(s) to participate in language studies. If you are interested in bringing your child for a 45-minute visit please call Dr. Geoffrey Hall's Language Development Centre, Psychology, 822-9294 (ask for Kelley).

Art Exhibition

Recalling The Past: A Selection Of Early Chinese Art From The Victor Shaw Collection. MOA Dec 2 - Aug 31/98, Wed-Sat 11am-5pm; Tues 11am-9pm. Call 822-5087.

Research Study

Relationship Study. Heterosexual men (25 years of age and older), in relationships of greater than six months needed for a UBC study of

relationships. Complete questionnaire at home, receive \$10. Call 822-2151.

UBC Campus Tours

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

UBC Botanical Garden Tours

The Nitobe Memorial Garden, Botanical Garden and Shop in the Garden are open from 10am-6pm daily to October 4. Tours of the garden will be given by The Friends of the Garden every Wednesday and Saturday at 11am. Tours are included in the price of admission to the garden. Call 822-9666 (gardens) and 822-4529 (shop).

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. For more information or to sign up for this study please contact Mary-Jo Lavery, RN (Study Co-ordinator), 682-2344 ext. 2455.

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.

First Nations Print Collection Exhibit

This exhibit showcases 22 works by several well-known First Nations artists, including Mark Henderson and Richard Hunt (Kwakwaka'wakw). Vernon Stephens (Gitksan), Roy Henry Vickers (Tsimshian), and Robert Davidson (Haida). MOA to Apr. 12. Call 822-5087.

UBC Community Sports Services

UBC Community Sports Services offers gymnastics for all ages, adult ballet and a spring break camp. A unique experience is provided for the development of participants of all ages. Call 822-3688 or e-mail fairplay@unixg.ubc.ca.

First Nations Students Planning To Graduate In 1998

If you are a First Nations student and plan to graduate in May '98, you may want to participate in the Longhouse celebrations. Please contact Verena at 822-8941.

Parents With Young Adults

Today it is much more common for young people to return home to live with their parents for many reasons. As part of a research study, mothers and fathers with 20-30 year olds who have returned home are invited to participate in

parent/adult-child conversations about their experiences. Three chances to win \$100. Call Michele Pseluikho, Counselling Psychology 822-5259 or 269-9986.

Vegetarian Women

Vegetarian women between the ages of 19-50 required for a study examining nutrition attitudes and practices. Involves questionnaire and interview. Will receive a gift certificate for the Bread Garden or Starbucks. Call Terri 209-3281.

Annual Nursing Alumni Dinner

Alternative Medicine: Bringing Science And Art Back To Nursing. Gina Dingwellat, speaker. Cecil Green Park House. Reception 6pm; dinner and nursing alumni awards at 6:45pm. Tickets \$38. Rides available. Call Cathy 822-7468.

UBC Architecture Gallery And Studio Opening

The first exhibition arising from research within the School of Architecture will take place April 16-May 9. It provides a full survey of the work of local architects. Busby & Associates entitled, "Access to Architecture: Intentions and Product." For more information on future exhibitions or membership in Friends of the School of Architecture visit the Web site: www.architecture.ubc.ca or call 822-2779.

Forum

New Age Forestry?

by Clark S. Binkley

Clark Binkley is dean of the Faculty of Forestry and specializes in forest economics. This article first appeared in Branch Lines, the faculty's newsletter.

A recent book edited by Kathryn Kohm and Jerry Franklin, *Creating a Forestry for the 21st Century*, called for "changing the focus of forest management from quantity to quality, from industrial-type production to the provision of goods and services. This paradigm shift is not unique to forestry. It is part of a much broader move from the industrial age to the information age."

Foresters in B.C. and elsewhere no doubt hear suggestions that, in this new age, silicon chips soon will replace wood chips, leaving little need for structural wood products. Such claims bear careful scrutiny. Just what does the "information age" mean for forestry?

It is fruitful to begin with what it does not mean. The World Resources Institute — hardly a sycophant for the forest industry — estimates that world demand for wood is increasing at a rate of 75 million cubic metres per year. In comparison, the current allowable annual cut in B.C. is about 70 million cubic metres. Due to population growth and increased income, each and every year the world consumes an additional amount of wood equivalent to finding a new B.C.!

Apparently the prosaic problems of timber supply will remain important well into the next millennium. Just who do

the information-agers imagine will attend to these problems if not foresters?

Of course, while timber supply will remain an important issue, the non-market service of forests are simultaneously becoming more important. A recent article by Robert Constanza and colleagues argues that the value of ecosystem services from the world's forests equals \$969 per hectare per year.

Rough estimates I have recently compiled for the U.S. suggest that their forest-based recreation is worth about as much as their industrial timber production, and that the role forests play in removing carbon dioxide and important greenhouse gases from the atmosphere is worth about a third as much.

Here is where the information-age paradigm has currency for forestry: how do we "produce" more of all of these forest outputs from a more-or-less fixed forest land base? Doing so will surely require far greater knowledge and greater reliance on science and technology than has been the case in the past.

The need extends from advanced satellite-based remote sensing to the biotechnology of forest trees: from more sophisticated ecosystem science (especially large-scale experimentation) to the technologies that allow more efficient

use of wood (e.g. new approaches to wood building design and construction, robotics in value-added processing).

Such a technology-based approach is consistent with leading thinking about human relations with the environment. In a recent article in

Science, four ecologists who analysed human impact on the Earth's ecosystems found that we have transformed between one-third and one-half the Earth's land surface, and have had a major impact on key

carbon, nitrogen and water cycles. They conclude, "Humanity's dominance of earth means that we cannot escape responsibility for managing the planet."

This responsibility requires, they argue, using resources more efficiently and understanding better both the natural and social scientific aspects of ecosystems. These are sensible prescriptions for forestry as well.

Our capacity to substitute information-age knowledge for natural resources depends on the investments we make in producing and adapting new knowledge. Canada's current performance in this respect has, with one notable exception, been poor.

A recent study found that R&D — public and private — in the Canadian forest sector was generally low and

declining. (In 1994, one U.S. firm, International Paper Company, spent more on R&D than did the entire Canadian industry.) The only bright spot in this otherwise bleak landscape has been the research program of Forest Renewal B.C. (FRBC).

Originally targeted at between 10 and 15 per cent of their total expenditures, last year FRBC spent about \$40 million on R&D activities ranging from environmental protection to growing trees to value-added forest products.

Maintaining this program — and expanding it to its intended size — is critical to our future. But even with FRBC's current research program, total forest sector R&D in B.C. still falls far short of the standard in other advanced forested countries such as Sweden, the U.S. or Japan. And extensive public ownership of forest land in B.C. implies a special responsibility for publicly funded forestry research far greater than in these other jurisdictions.

The information age is creating amazing new technologies and understanding. This revolution does not imply that material demands on the world's forests will diminish, but rather that foresters have powerful new tools to meet those demands while responding affirmatively to the increasingly valuable ecosystem services of our forests.

Effective adaptation of these information-age tools to forest conservation, management products and production processes comprises a major challenge to forest stewardship now and in the 21st century.

"...extensive public ownership of forest land implies a special responsibility for publicly funded forestry research..."

—Dean Clark Binkley

Students get working education

How it works

The benefits are attractive, but co-op work terms aren't easy. Many students have little experience with the world of work and there's competition for placements in many programs.

That's why students who want to be eligible for co-op programs must complete between eight and 15 workshops on topics such as employment law, workplace expectations, and interview, resumé and job search skills.

"Preparing for a co-op term is difficult," cautions Kelly Meehan, co-op co-ordinator for Applied Science. "It's like adding a full-time course to an already full course load. Typically, students interview with employers during midterms and finals. They've got to prepare for work as well as handling the reality of school."

Depending on their program of study, co-op students complete four to five work terms lasting three or four months each. Two consecutive terms may be completed with a single employer.

Not all students are able to move away from the Lower Mainland, but where competition for placements is stiff, a willingness to relocate greatly increases a student's chances of getting one. Almost one in three Applied Science placements, and one in five Science placements, are outside B.C.

Challenges on the job site, though rare, are handled by the co-op supervisor. UBC is one of only a handful of post-secondary institutions where every placement is overseen by a faculty member.

Co-op programs grow by leaps and bounds in arts and sciences

There's a buzz about co-op programs on campus.

Students are clamoring after the valuable skills and experience to be gained from work terms that bridge the academic world and the world of work.

"It's important that our students have the opportunity of applying university learning and experiences in a work environment," says Barry McBride, vice-president, Academic.

"Students come back from the work experience with a greater appreciation for their academic studies, a clearer understanding of the careers they will pursue and greater confidence in their ability to function effectively in the workplace," he says.

In 1992/93, 330 UBC students completed co-op work placements. This year, 1,100 students will take part. Co-op organizers say that's just the tip of the iceberg — the number could double, and possibly triple, within two years.

While professional programs like education, medicine and dentistry have long incorporated on-the-job training, for undergraduates the option of completing paid, full-time work terms has traditionally been available only in the faculties of Applied Science and Science.

All that is changing. The faculties of Arts, Commerce and Business Administration, and Forestry have begun offering co-op placements, and the Faculty of Agricultural Sciences is looking at new ways of providing students with work experience.

An English Dept. pilot project is in the vanguard of a plan to make co-op programs available to all Arts students. Co-

ordinator Julie Walchli hopes to place 20 to 30 students in work terms this summer.

"The employers I've spoken to want these English students. They'll be involved with corporate communications, producing reports, marketing—the list goes on and on."

Elaine Wang is a third-year English student hoping to land one of those placements.

"Reading Shakespeare and Chaucer doesn't by itself qualify us to do anything. But our research skills, writing, reading and presentation skills are broadly applicable in the outside world," she says.

New co-op programs in the Faculty of Commerce and Business Administration are also growing quickly.

In the next few years, organizers predict students in Arts and Commerce will have as many co-op opportunities as Applied Science and Science students.

At 750 placements this year, the Faculty of Applied Science has the second largest engineering co-op program in Canada.

The push for more co-op programs comes mostly from students, says Javed Iqbal, director of Science co-op programs, even though work placements add a full year to a four-year program.

"Recently, biochemistry students saw that microbiology and chemistry students were benefiting from co-op programs, and they said, 'why not us?'"

While interest in co-op is booming,

funding new programs is a challenge for organizers.

Provincial funding from the Co-operative Education Fund of B.C. is approved only once the framework for the new

"The employers I've spoken to want these English students."

— Julie Walchli

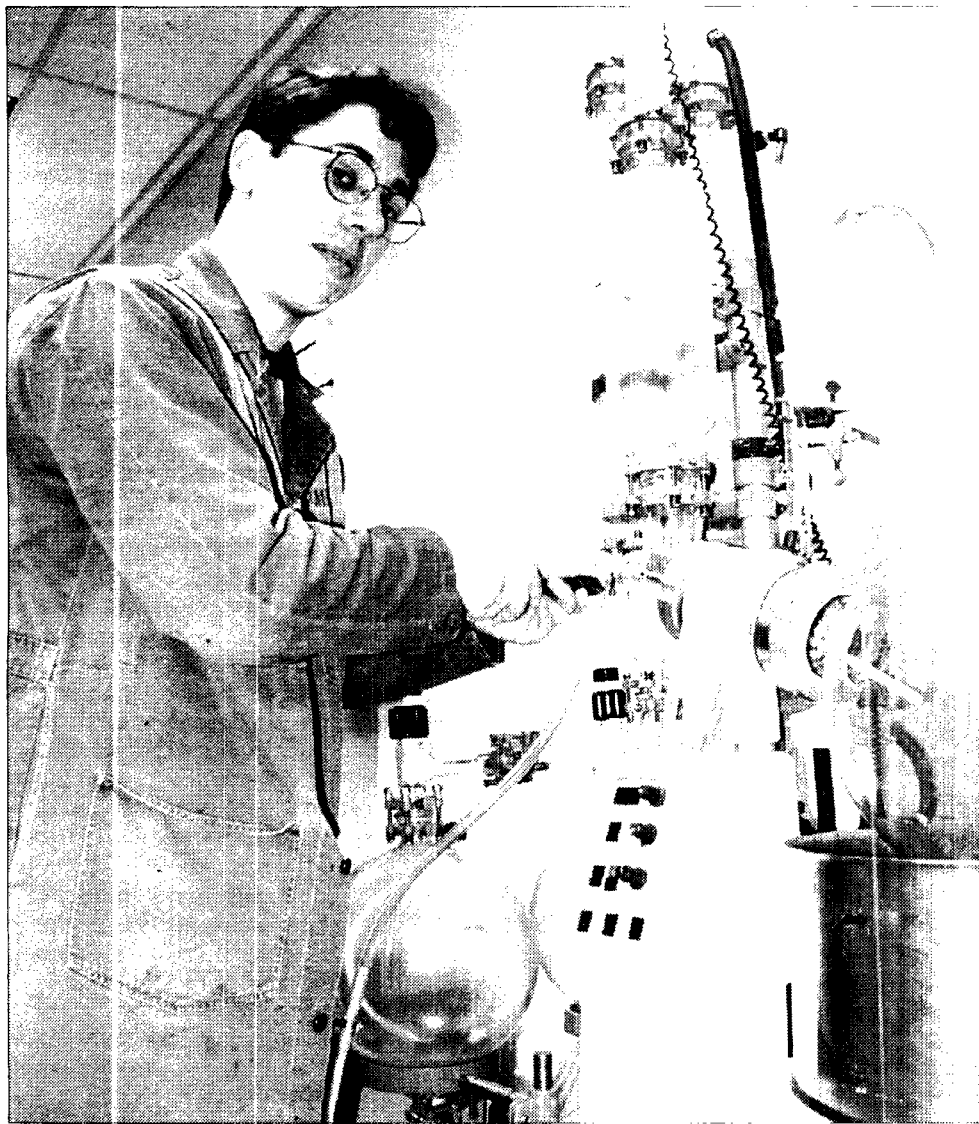
program is in place, and employment placement opportunities have been demonstrated. The initial costs of staff and faculty time, student workshops and employer recruitment must come from the university, the individual faculty, or from outside funding agencies.

Once a program is approved, the amount of provincial funding is based on the number of work placements in the previous year. The number of new students added to a program is determined by how far that funding can be stretched.

"Because of the demand, I wish we could start new programs in the Faculty of Science even faster," says Iqbal, whose Science programs will place about 400 students this year. "But the tremendous overall rate of growth we are experiencing with co-op at UBC proves we're on the right track."

"It's important that our students have the opportunity of applying university learning and experiences in a work environment."

— Barry McBride, vice-president, Academic



Sean Kelly photo

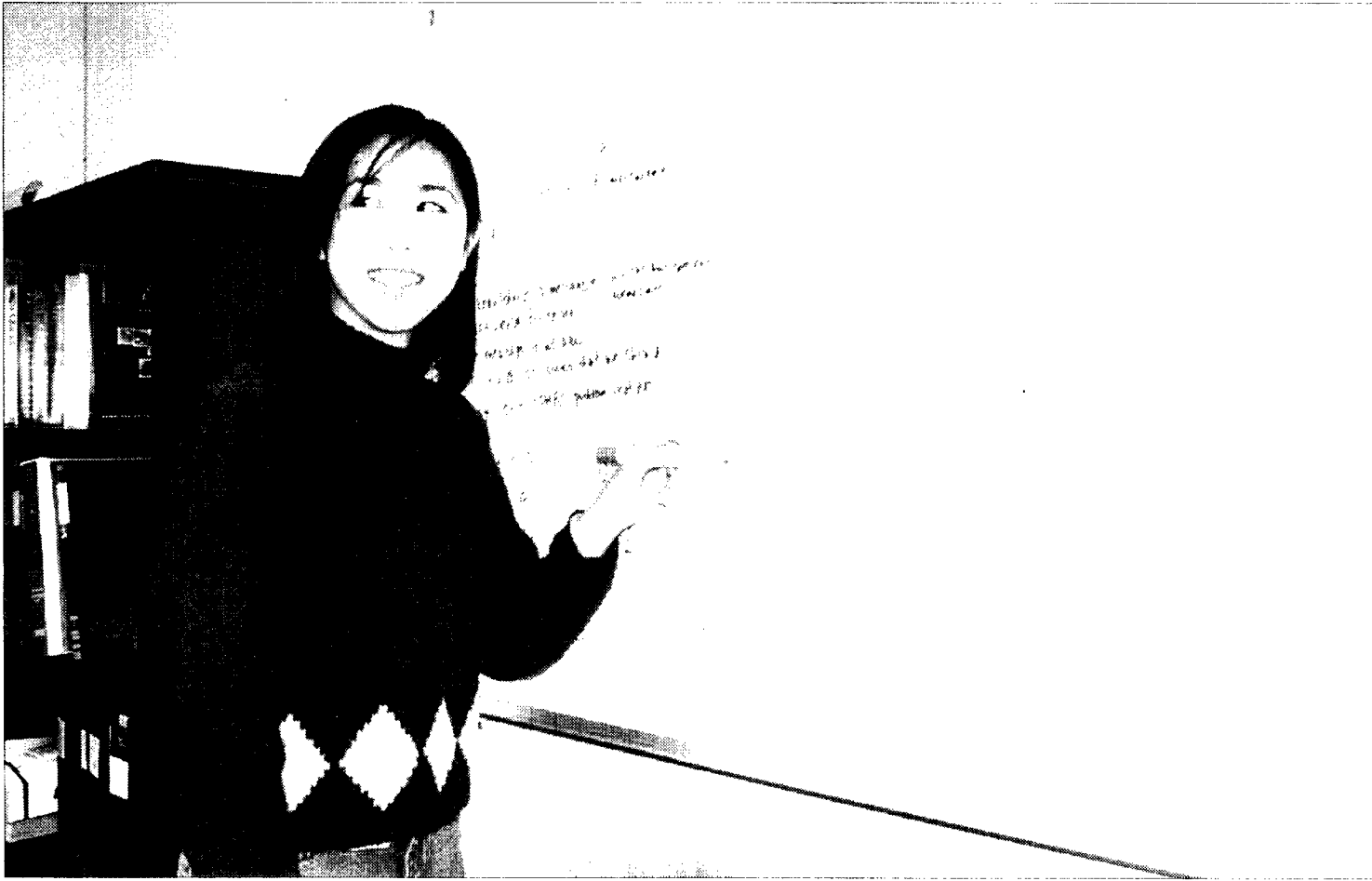
Third-year Chemistry co-op student Eugene Johnson tests chemical samples in the lab at Ballard Power Systems. Unlike academic labs, Johnson says industry labs want to know first of all if something works, and they worry later about how it works. Co-op placements have helped him clarify career goals by giving him a sense of what's going on in industry.



Sean Kelly photo

Co-ordinator Julie Walchli tackles the task of getting the first English Dept. co-op program off the ground. Before they can apply for funding from the provincial government, new co-op programs must have both their framework and employers in place. Student demand for new programs outstrips supply.

Businesses get hard-working minds



Sean Kelly photo

Fourth-year Electrical Engineering student Jenny Koo sketches out software requirements in her office at MacDonald, Dettwiler and Associates. For eight months, she'll work with a team of people designing a remote manipulator system for a planned international space station. Koo says this kind of experience would be hard to attain without co-op placements.

Student engineer makes plans for space station and her future

For Jenny Koo, the most stressful part of her co-op work term is the commute from West Vancouver to the spacious Richmond headquarters of systems engineers MacDonald, Dettwiler and Associates (MDA).

Koo is an electrical engineering student working on software for a remote manipulator system that will be Canada's contribution to a planned international space station.

Once she pulls into MDA's parking lot, things are a lot more relaxed — especially now that she can find her way to her office.

"I've been here since early January and I still can't find my way around the rest of this building," she admits.

Koo's previous co-op experience includes two placements with a management information systems company and one with a maker of remote-controlled submarines.

"I love starting new work terms. It's a break from the routine of school — you go to a different environment with new people to meet and new things to learn. It's exciting."

In the space and defence section of MDA, where Koo will work for eight months, dress is casual and empty pop cans adorn computer workstations.

"I try to look for work terms where the environment is casual and not uptight and bureaucratic. At MDA the work is serious, and we all take it seriously, but we have fun at the same time."

Seated in front of her computer, Koo seems at ease with her specialized task.

"Right now, I'm working on validation and integration for the whole system. After I've written specifications for procedures, the integration team will proceed to test the system."

Such challenging and interesting work was beyond imagination when she started studying at UBC.

"I had no idea of career goals. I only knew I wanted to work in technology. My

co-op placements have helped me confirm that I want to do computer engineering, and when I graduate I'll have a range of choices."

Choice has also been one of the payoffs of the co-op program for fellow electrical engineering student Sunny Gulati, who graduates this May. He's already accepted a permanent job offer from BC TEL after turning down tempting offers from IBM and Northern Telecom.

"I had no idea of career goals. I only knew I wanted to work in technology."

—Jenny Koo

Gulati says co-op experience helped him grow, and he remembers his second co-op work term with a large Calgary oil company as a turning point.

"I had never been away from my parents and my home before — not even for a weekend. Suddenly I was dealing with a new city, new people, and a real Canadian winter."

"In Calgary I developed more than just technical skills. My self-esteem increased, and so did my public speaking and sales skills. When I came back after four months, I was a different Sunny. The money is great, the experience is great, but for me, personal development is a crucial benefit of co-op."

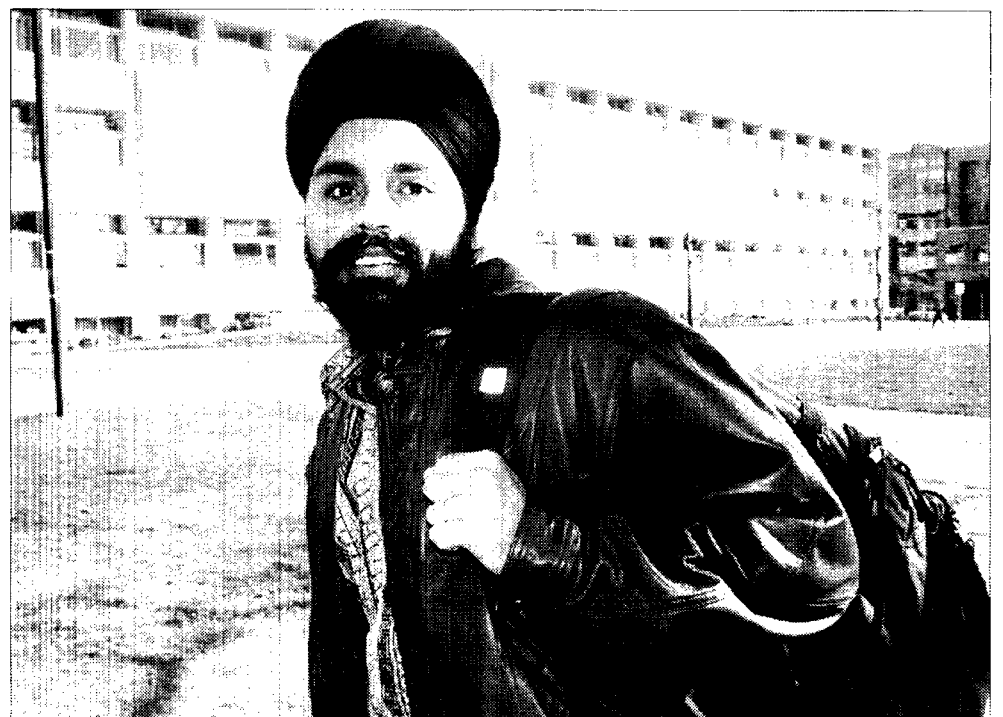
Gulati looked for new challenges in each placement. He worked for big companies, small companies, public institutions and corporations, and he always took away great contacts and increased knowledge about himself.

After each work term, Gulati went back to school with renewed vigor, and even though he worried less about marks, they improved along with his time management skills.

"I could see where I was going, I could see the future, and that made school more interesting."

Seeing the future increases the chances for career success, according to a review of co-op funding completed in 1992 for the Co-operative Education Fund, which funds co-op programs throughout B.C. The review shows co-op graduates find employment sooner than their peers, have greater job satisfaction and get promoted more often.

"Finding a permanent job after graduation was so easy with all my experience and references," says Gulati. "I'm a go-getter to begin with, but I don't know how I would have gotten where I am without co-op."



Sean Kelly photo

When he graduates in May, Electrical engineering co-op student Sunny Gulati goes to work full time for BC TEL having turned down offers from both IBM and Northern Telecom.

Employers say co-ops wise investment

If payrolls are any indication, more and more employers think co-op programs make good business sense. UBC's 1,100 co-op students together will earn \$9 million in wages this year.

Craig Louie of Burnaby-based Ballard Power Systems, a world leader in fuel cell power systems, appreciates the value of co-op from both a personal and business perspective.

A former UBC co-op student himself, Louie credits his three co-op work terms with helping him land a job with Ballard after he graduated with a bachelor's degree in Engineering Physics in 1991.

Now a systems engineer and hiring manager, Louie says half the recent graduates hired by Ballard have co-op experience from UBC or other institutions.

"Ballard prefers co-op students because they have varied experience and a proven track record as well as practical and useful skills," he says.

Ballard is confident of getting high quality candidates from co-op programs, and a four- or eight-month stay is a good opportunity to evaluate possible future employees, Louie says.

For a growing company facing new challenges all the time, hiring fresh minds who already know how the company works is a real advantage, he adds.

B.C. snapshot

- Co-operative education was formally introduced to B.C. in the mid-1970s. Placements province-wide doubled each year between 1980 and 1985, again between 1985 and 1988, and again between 1988 and 1991.
- The provincial government, through the Co-operative Education Fund of B.C. Advisory Committee, now spends \$3.6 million annually on co-operative education.
- For every dollar spent by the province to fund co-op programs, employers spend an average of \$16 on wages.

Star rusher, swimmer, three teams, year's best athletes

Mark Nohra, the UBC Thunderbird football star whose incredible season of rushing culminated in the team's Vanier Cup victory, and Olympic swimmer Sarah Evanetz, who won 20 Canadian university championship gold medals in four years, received UBC's top athletic awards at the 77th Annual Big Block Awards Banquet March 25.

The football team, and men's and women's swim teams shared the du Vivier Team of the Year Award.

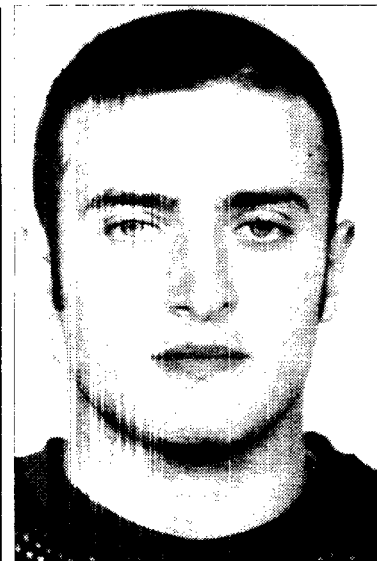
Nohra, who last year won the Hec Crighton Award as Canada's most outstanding university football player, broke UBC and Canada West division records as the 'Birds charged to their first Vanier Cup victory in more than a decade. He received the Bobby Gaul Memorial Trophy, awarded to the graduating male athlete who displays outstanding leadership and sportsmanship.

Evanetz, a national team member who competed in the 1996 Summer Olympics in Atlanta, won the Marilyn Pomfret Trophy. The trophy is awarded annually to a female athlete who has distinguished herself in university, national or international competition, exhibited the highest ideals of fair play and who, according to her peers, has contributed significantly to her team.

Evanetz recently won five gold medals and one silver at the Canadian Interuniversity Ath-



Evanetz



Nohra

letic Union (CIAU) championships. As team captain she led the women to their fourth national championship in five years.

The three teams that share the du Vivier Team of the Year Award each earned top spot among Canadian universities, bringing the university its 38th, 39th and 40th CIAU championship titles. The men's and women's swim teams, coached by Tom Johnson, both won CIAU championships this year with decisive point leads over their competitors. UBC swimmers dominated the national university swimming championships, winning 18 gold medals.

The dual victories marked the first time UBC's men and women have won simultaneous titles, and the first time in 33 years that the men's team has claimed top spot. The men won 10 gold medals and the women eight. The teams also won a total of 10 silver and six bronze medals. Evanetz and 1997 World Aquatic Championships medalist Mark Versfeld, who each won five gold medals and one silver in individual and relay events, led the attack.

The football team won the Vanier Cup for the first time since 1986 and the third time in the university's history. Coach Casey Smith led the team to victories in the Canada West conference and the Atlantic Bowl before the 'Birds rolled onto the field in Toronto's Skydome to hammer the Ottawa Gee Gees 39-23.

Also nominated for the Marilyn Pomfret Trophy were women's basketball team captain Laura Esmail and starting goalkeeper for the women's field hockey team Ann Harada, both Academic All-Canadians. Contenders for the Bobby Gaul Memorial Trophy included volleyball power hitter Mike Kurz, soccer team captain and national World Cup team hopeful Chris Franks, and hockey team captain Jamie Burt.

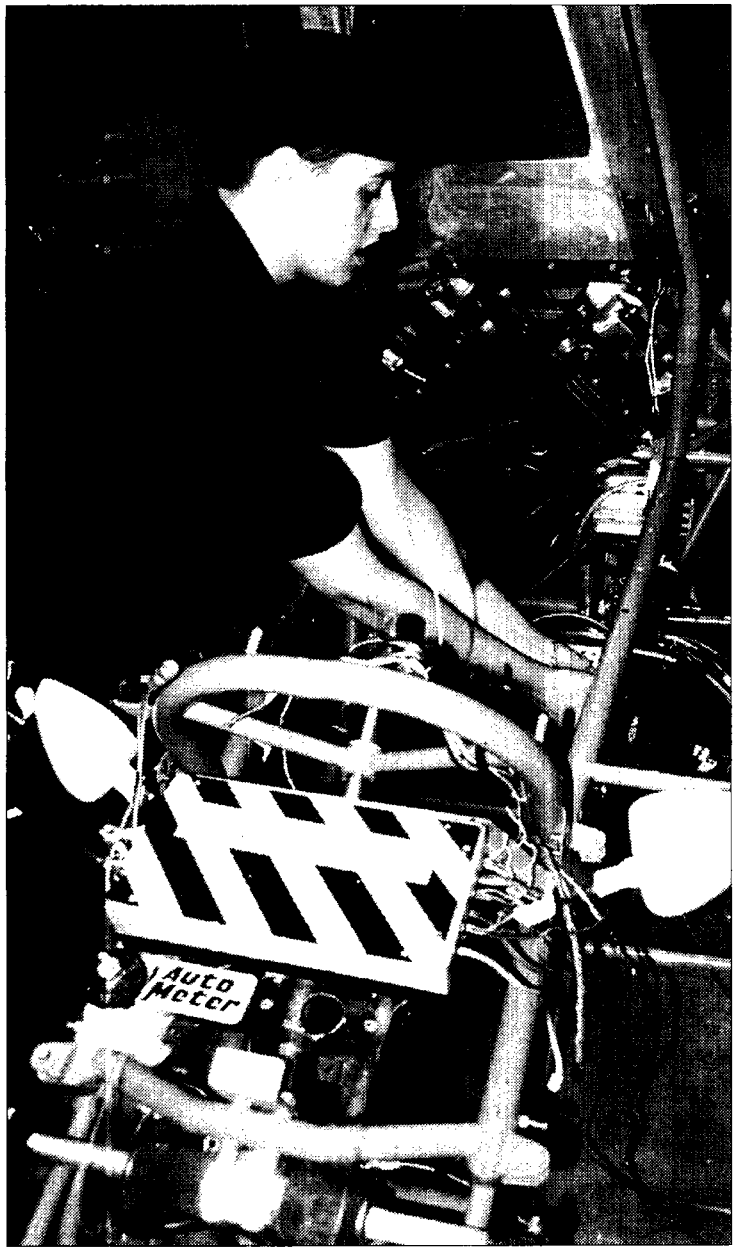
Big Block sweaters, which signify second-year status, were presented during the banquet to 132 athletes, coaches and trainers.

The UBC women's golf team won the 36-hole Colby Invitational Golf Tournament, which wrapped up in Santa Clara, Ca., March 25.

The win marks the first time a UBC women's team has won a National Collegiate Athletic Association (NCAA) division one event.

UBC's Sarah MacCormack posted the second lowest score with a 12 over par total of 79-77-156. Maija MacCauley of UBC was fifth with 82-81-163.

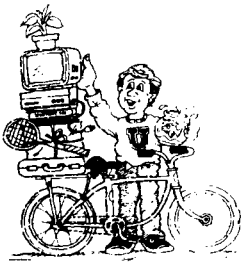
The UBC team result, comprising the aggregate total of the best four scores of five golfers, was 656. Arizona was second with 658.



Stephen Forgacs photo

Fine Tuning

Second-year Mechanical Engineering student Matei Ghelesel works on a Formula SAE race car in preparation for the Society of Automotive Engineers (SAE) race in May. The car was designed and built from scratch for last year's race and is being re-entered as an improved model. More than 35 students from the faculties of Applied Science, Commerce and Business Administration and Arts are working on the SAE project. Some engineering students may receive course credit for design work while most undertake the project to gain extracurricular experience in team work and hands-on design. UBC participates annually in the event, which takes place in Pontiac, Michigan this year. The students rely heavily on the support of sponsors for the project. The SAE team would be happy to hear from potential sponsors at 822-2970.



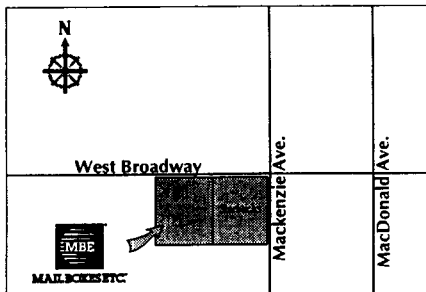
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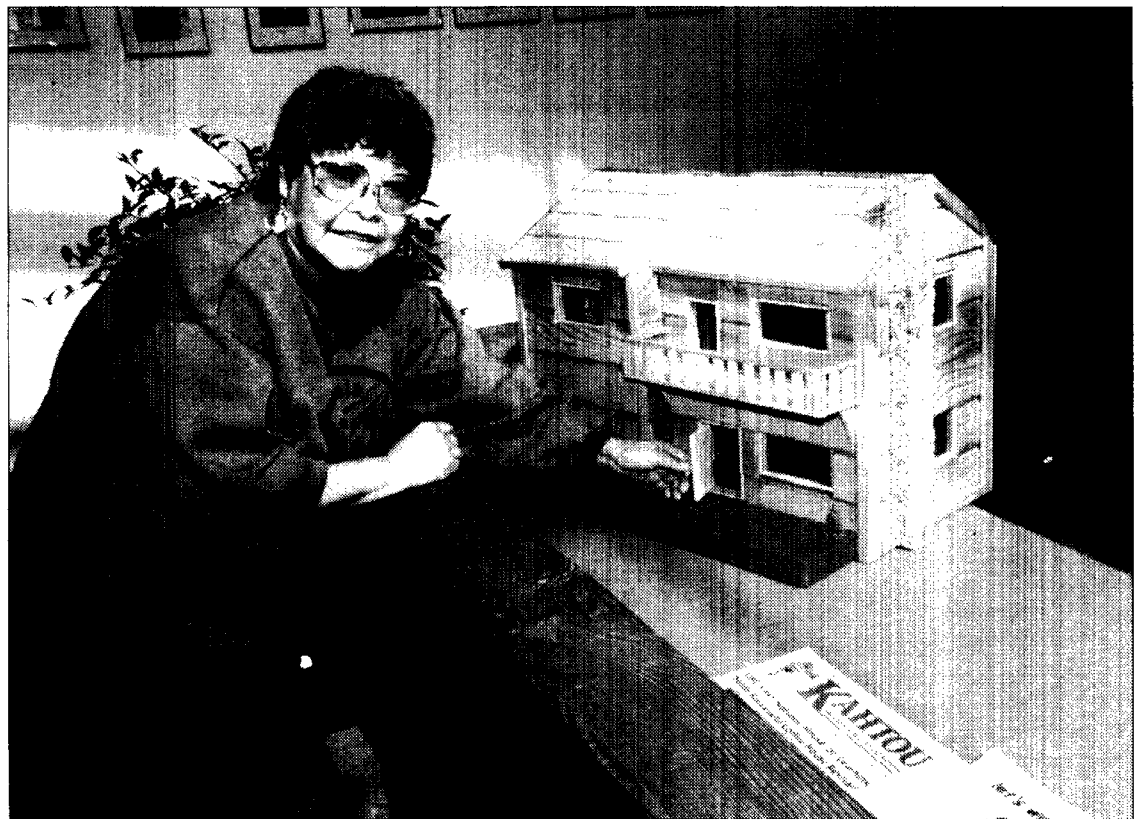
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Stephen Forgacs photo

Doll Of A House

Angie Todd-Dennis, an alumna of the Native Indian Teacher Education Program (NITEP), donated a partially furnished wooden doll house to this year's graduating class as a raffle item to raise money for their graduation ceremony. In addition to participating in Congregation, First Nations graduates attend a special celebration in Sty-Wet-Tan, the Great Hall in the First Nations House of Learning. The House of Learning was established in 1987 to make UBC and its resources more accessible to B.C.'s First Nations people.

Rigorous regimen aims to send heart disease packing

by Hilary Thomson

Staff writer

Turning back the clock on heart disease is the aim of a new program at the Faculty of Medicine's St. Paul's Hospital campus.

Designed for 25-to 65-year-old men and women with heart disease, the Atherosclerosis Reversal Clinic (ARC) is helping patients aggressively reduce their risk factors to reverse coronary artery disease.

Unique in that it seeks to reduce all the risk factors associated with atherosclerosis, or hardening of the arteries, the

ARC program calls for a challenging regimen of diet, exercise and medication. Targets for cholesterol levels, diet, blood pressure, exercise, body fat and weight all go beyond those set by the American Heart Association.

"Until now we've only been able to slow down the progression of heart disease," says Sandra Barr, the program coordinator. "Now we want to return the arteries to a healthy state."

Started earlier this year, the program is an offshoot of St. Paul's Hospital Healthy Heart program and uses the expertise of a dietitian, nurse, exercise specialist,

psychologist and heart specialists from UBC's Div. of Cardiology at St. Paul's Hospital.

Volunteers in the two-year program must be motivated to make changes to their lifestyle that include exercising a minimum of five sessions per week and reducing fat intake to only 15-20 per cent of all calories consumed — much less than the 37 per cent average daily consumption.

"This is hard work," says Barr. "It isn't like taking a pill and getting cured."

Patients make 11 visits to the ARC in the first year and four in the second year for progress reviews and tests including ultrasound measures of neck and elbow artery thickness.

"We're pushing the limits with this program," says Dr. Andrew Ignaszewski, medical director of the Healthy Heart program. "But even if patients can make a minute change to their artery capacity, the payoff will be significant, adding healthy years to their lives."

The leading cause of heart disease, atherosclerosis is caused by an accumulation of cholesterol in the artery walls. The resulting lesion may block the coronary arteries and lead to severe chest pain and, if the artery ruptures, heart attack. Heart disease is responsible for approximately 6,000 deaths each year in B.C.

The clinic team hopes to enrol 150 people in the program over the next 18 months. Individuals interested in joining the clinic must have the consent of their doctor, attend an information session and undergo a series of tests before starting the program. For further information contact Sandra Barr at 631-5600.

Exchange noted for bridging Pacific

A unique exchange program that brings Japanese and Canadian students together in residence and classes at UBC has gained recognition for internationalizing the campus and involving international students in campus life.

UBC has been awarded a Scotiabank/Association of Universities and Colleges of Canada Award of Excellence for Internationalization for the UBC-Ritsumeikan Academic Exchange Program.

Program executive director Joe Greenholtz says the seven-year-old program is designed to provide an inclusive and integrated learning experience for both the Japanese and Canadian students involved.

"The UBC-Ritsumeikan program was created in keeping with the vision that Ritsumeikan University and UBC had for building international ties and providing opportunities for students to gain insight and experience in dealing with other languages and cultures," Greenholtz says.

The program annually brings 100 Japanese students to live and study with an equal number of Canadian peers at UBC in an integrated academic and residential environment — Ritsumeikan-UBC House. In addition, faculty from Ritsumeikan University in Kyoto, Japan, reside at UBC for the year to co-teach core courses. An administrative officer assists university staff with the program's operation.

Japanese students are further immersed in Canadian and campus culture through one-on-one exchanges with Cana-

dian language partners and "buddies" as well as a variety of volunteer activities.

"I don't know of another program of this scale that is so integrated," says Greenholtz, who works closely with deans and administrative staff at both universities.

In the late 1980s, UBC and Ritsumeikan University began exploring ways of collaborating to internationalize their curricula and the educational experience of students.

Since then, the jointly financed Ritsumeikan-UBC House has been created for Canadian and Japanese students, and agreements have been signed for graduate student and faculty research exchanges and athletic partnerships.

UBC has exchange agreements with more than 80 universities in 25 countries. The UBC-Ritsumeikan exchange is unique, however, in that the number of Japanese students is large enough to have a noticeable impact on campus.

There have been additional benefits from the program — UBC has agreed to be involved with the Ritsumeikan Asia-Pacific International University due to open in 2000 in Beppu, Japan.

UBC was also a co-recipient of a second award for Resources for Internationalization Efforts in recognition of UBC's participation in the Canadian University Study Abroad Program.

Launched last year, the awards recognize universities' achievements in bringing a global perspective to their campuses.

Valley dairy farm goes educational

by Stephen Forgacs

Staff writer

UBC researchers, including faculty members and graduate and undergraduate students, are gaining greater access to research opportunities as UBC formalizes an arrangement to take over management of an Agassiz dairy research facility.

"The new Dairy Education and Research Centre will serve researchers in the areas of animal welfare, nutrition, reproduction and waste management and will attract Canadian and international scientists from other universities, government and industry," said Prof. Jim Thompson, associate dean of Research in UBC's Faculty of Agricultural Sciences.

Thompson said UBC assumed management of the facility about one year ago from the federal government and that UBC researchers have a long history of collaboration with staff and government researchers in Agassiz.

The final agreement, signed March 23, allows UBC to establish the new centre on leased facilities at Agriculture and Agri-Food Canada's (AAFC) Pacific Agri-Food Research Centre (Agassiz).

UBC plans to develop a world-class centre housing enough animals to meet the needs of a

large number of researchers and produce enough milk to enable the centre to be financially self-sufficient.

AAFC will provide \$350,000 towards the \$1.5 million development. The university is exploring options to complete funding.

The decision to locate the centre at Agassiz was based on the benefits of collaborating with AAFC scientists and proximity to the major sector of B.C.'s dairy industry, said Thompson.

Undergraduate students will work at the centre to learn dairy industry skills and research techniques. Canadian and international graduate students from UBC and other universities will reside at the centre to perform research required for their degrees.

The centre will also be available for use by organizations such as the B.C. Artificial Insemination Centre at Milner and University College of the Fraser Valley.

The centre will provide continuing full-time employment for at least seven local residents. Short-term employment will also be available to those interested in assisting various research projects. The centre also hopes to provide full-time continuing employment for several research technicians, Thompson said.

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News Digest

A Canada-wide essay competition will offer 18 full-time health-care students the chance to attend an international forum on ovarian cancer to be held at Ryerson Polytechnic University in Toronto July 8-11.

Entrants must submit a 1,500-word essay on why they are choosing health research for a career. Winners will have all expenses paid to attend the forum.

The deadline for submissions is May 15.

Entries can be mailed to Ovarian Cancer Forum '98, 250 Consumers Road, Suite 301, North York, Ontario, M2J 4V6, or faxed to (416) 495-8723. The e-mail address for submissions or further information is base@onramp.ca.

•••••

Photographs by Prof. Earl Winkler, head of the Dept. of Philosophy, and his wife Elizabeth are on exhibit at the Howe Street Gallery of Fine Arts, 555 Howe Street.

The subjects of the Winklers' color photographs are architectural details of buildings they have encountered during trips to Mexico, Cuba, Central America and France. The pair have two or three exhibitions a year to their credit and also have their own gallery in White Rock.

The photographs, part of a group show, are on display at the Howe Street Gallery until April 30. An artists' reception will be held at the gallery April 8 from 6 - 8 p.m.

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The deadline for the April 16 issue of UBC Reports is noon, April 6.

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Norman Chan photo

Tami Gazzola and Andrew Greenwood sing in a UBC student production of *The Bear*, an opera by William Waltham based on the story by Anton Chekhov, performed earlier this year at the Old Auditorium.

Opera program up and humming

by Gavin Wilson

Staff writer

The School of Music's opera program is hitting a high note.

Enrolment is soaring, grads are finding work and new outreach programs have students singing everywhere from schools in Chilliwack to the opera houses of Europe.

As part of this renaissance, students are performing in public more often. The next chance to see them is April 1-5 in the Chan Centre for the Performing Arts performing Mozart's *The Gardening Girl's Secret*, sung in English and accompanied by the UBC Symphony Orchestra.

The program, which has already produced such stars as Ben Heppner and Judith Forst, has bloomed under the direction of Assoc. Prof. Nancy Hermiston.

Since she arrived from the University of Toronto two years ago, enrolment has increased from nine to 49 students. This includes 14 at the graduate level, up from just one student a short time ago.

Hermiston feels graduate studies are very important for young singers because the extra two or three years of training can turn them into polished professionals.

"There's so much involved in becoming an opera singer," she says. "It's a very long and complicated procedure. They have to learn acting, stage techniques

"Well-trained voices and musicians are very much in demand."

— Assoc. Prof. Nancy Hermiston



Hermiston

and languages, as well as the basic musical skills."

For those who master the skills, the job opportunities have never been better, says Hermiston, who herself has performed with the Canadian Opera Company and the Nuremberg Opera in Germany.

"Well-trained voices and musicians are very much in demand. The musical theatre scene especially has opened up many employment opportunities."

By the time they graduate, Hermiston's students will already have a great deal of performing experience. They sing in local schools, seniors' homes, and on mini-tours to B.C. centres such as Kelowna and Kamloops.

Last year, UBC students performed in international opera workshops in Germany and the Czech Republic.

"The European audiences adored their energy and enthusiasm. They really loved them," says Hermiston.

The opera program accomplishes all of this on a shoestring budget of \$4,000 which it supplements with bake sales, raffles and singing telegrams on Valentine's Day.

Island waste facility to close

UBC will close a northern Vancouver Island composting facility because it no longer helps fulfil the mandate of the university or supports research and education.

Concerns regarding potential environmental impact also led to the decision to close the Pacific Bio-Waste Recovery Facility, located at UBC's Oyster River Research Farm near Campbell River. Closure of the facility by July 31 was recently approved by UBC's Board of Governors.

"The university has been a responsible citizen in proactively reducing environmental risk through the closure of the facility," said Mark Aston, manager of UBC's Environmental Programs.

The facility was built by a non-profit society whose members included the university, the B.C. Ministry of Agriculture, Fisheries and Food, the Mount Washington Community Futures Committee and local fish processing and fish farming industries.

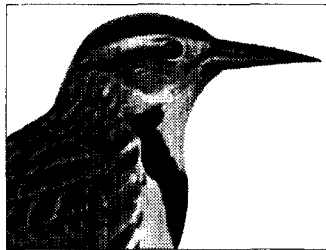
The facility combined fish waste and wood chips and then used state-of-the-art technologies to make compost. Use of the fish waste helped alleviate disposal problems for the local fisheries industry.

There are now several other fish waste compost facilities in the area, largely as a result of research done at the Oyster River facility, meaning the local fish processing industry will face minimal financial impact and disruption of operations.

A document presented to the board warned of the potential for adverse environmental impacts as a result of the composting operation. As joint permit holder and landowner, UBC could be found liable if the Ministry of Environment, Lands and Parks found the facility to be in violation of the waste management permit.

Closing the facility will have no financial impact on the university.

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People

by staff writers

In her first year as head coach of the UBC women's volleyball team, **Erminia Russo** has been named the Canadian Interuniversity Athletic Union women's volleyball Coach of the Year.



Russo

A former Thunderbird, Russo guided the 1997/98 team to its first Canada West title since the 1977/78 season.

The 'Birds finished the regular season with a 16-6 record, and went on to beat three-time defending national champion the University of Alberta Pandas to win the conference title.

.....

Fisheries biologist **Michael Healey** has joined a group of eminent fisheries experts who will create a "living blueprint" for saving dwindling B.C. salmon stocks. The volunteer task force will produce a report by May to provide government with independent recommendations on how to protect existing salmon habitat and optimize salmon production.

The group has a budget of \$60,000 from the non-profit Pacific Salmon Foundation, which funds habitat preservation projects in B.C. Half of that funding will be used to publish the final report.

.....

F. Graeme Chalmers, a professor in the Dept. of Curriculum Studies, has won the National Art Education Association's 1998 Pacific Higher Education Art Educator of the Year Award.

The annual award recognizes outstanding achievement by association members, who include art teachers, college and university professors and others in Canada, the U.S. and 65 other countries.

Chalmers is the graduate adviser in the Dept. of Curriculum Studies, where he teaches courses in art education and curriculum theory. He has published widely on art education, cultural diversity and the history of art education.

He currently serves as senior editor of the research journal *Studies in Art Education*.

.....

History Prof. **David Breen** has won the Lifetime Achievement Award from the Petroleum History Society, a group of academics, corporate representatives, archivists and others based in Calgary.

The award was presented to Breen for his professional scholarship and dedicated investigation into the history of Canada's petroleum industry.

Breen is responsible for the first scholarly work that takes a comprehensive look at the industry from its early days to the 1960s. He has also written an award-winning history of Canadian ranching.

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In Memoriam



Bill Reid: 1920-1998

A spirit of Haida Gwaii

Hundreds gathered at the Museum of Anthropology March 24 to remember Bill Reid, who died March 13 at the age of 78.

The great Northwest Coast artist's ashes were brought into the museum in a canoe carried by 12 friends. More than 50 speakers paid tribute, among them architect Arthur Erickson, scientist and environmentalist David Suzuki, former politician Iona Campagnola and biographer Doris Shadbolt.

Reid's connection to UBC spanned 40 years. It was 1958 when Harry Hawthorn, head of anthropology, invited Reid to create part of a Haida village for the university.

The two Haida houses, mortuary poles and totems gave Totem Park residence its name, and now stand outside of MOA.

The village was a turning point in Reid's artistic career. His work, which revived traditional Haida carving techniques and designs, went on to achieve international prominence.

Reid was born in Victoria to a mother whose Haida ancestors included the great carver and silversmith, Charles Edenshaw. Even as he worked as a CBC radio announcer in Toronto, Reid studied jewelry making and began to explore his cultural heritage.

The Haida village was first of a series of large-scale works for which he is best known.

They include the Spirit of Haida Gwaii, a pair of 19-foot bronze sculptures located at the Canadian embassy in Washington D.C. and Vancouver International Airport; a 50-foot cedar canoe, Lootaas, commissioned for Expo '86; and the Lord of the Under Sea, a killer whale sculpture at the Vancouver Public Aquarium.

Another of his most celebrated works is Raven and the First Men, a large sculpture carved from laminated yellow cedar on display at MOA. The museum houses one of the world's largest collec-

tions of Reid's works, including canoes, sculptures, masks, bracelets, earrings, spoons, brooches, boxes and dishes.

The British Museum, the Musée de l'Homme in Paris, and the Canadian Museum of Civilization in Ottawa are among the many museums which also display Reid's works.

Accolades included honorary degrees from UBC and six other universities.

Harry Warren: 1904-1998

A passion for living, learning

by Donald Gunning

Donald Gunning is a longtime friend of the Warren family who was taught and coached by Harry Warren. Harry Warren died March 14 at the age of 93.

"Up you go, forwards! Like a pack of hounds!" Harry Warren would ring encouragement to a ragtag group of boys from University Hill School playing field hockey behind UBC's Brock Hall, long before the days of uniforms, paid referees and McDonald's after the game.

The unbridled enthusiasm and dedication he brought to junior boys' field hockey in B.C. was a manifestation of the outstanding character of Harry Verney Warren, who applied these admirable qualities to everything he undertook throughout his long and remarkable life.

Affectionately known as "The Robe" on campus, he will be remembered by generations of UBC students for having brought geology alive, on stage as it were, during their university years.

Harry earned a BA in 1926 and a BSc in 1927 from UBC. As an undergraduate, he threw himself passionately into a wide range of extracurricular activities, while maintaining a high scholastic standing. During his four-year tenure, he helped form cricket and field hockey teams, played rugby and excelled in track and field.

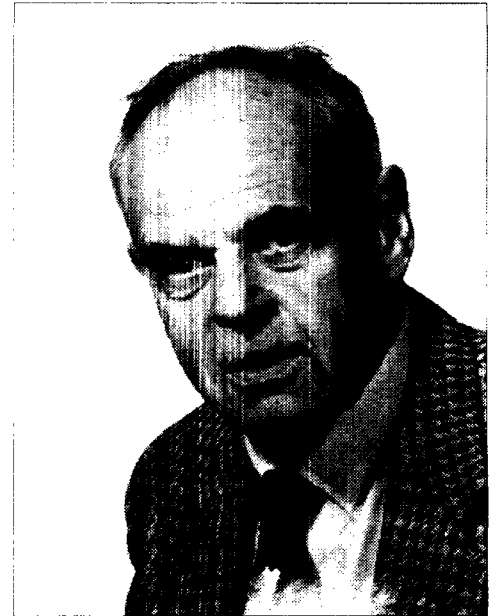
In his spare time, he indulged his considerable thespian talents with the UBC Players club.

As a B.C. Rhodes Scholar at Oxford from 1927 to 1929, Harry continued to excel in all his endeavors, earning an MSc and a DPhil.

As a member of the Canadian team at the Amsterdam Olympic Games of 1928, he coached the women's relay team to a gold medal.

A noted sprinter, Warren himself equalled the Olympic record in the 100 metres two weeks later at the Irish Games.

Harry returned to UBC as a lecturer in the Dept. of Geology and Geography in 1932, where he taught full time for 41 years, 28 of them as a full professor.



As a researcher, he pioneered the field of biogeochemistry, which looks at the relationships between the occurrence of trace elements in surface soils, rocks, vegetation and animal life, and the metal contents of the bedrocks below. This led to invaluable mineral exploration techniques adopted by mining companies and geological surveys throughout the world.

Harry published 198 articles and scientific papers and received numerous academic and professional awards including the Order of Canada, Order of B.C. and honorary degrees from UBC and Waterloo. He is also a member of the B.C. and UBC sports halls of fame.

Harry maintained a lifelong love affair with prospecting at the family-held mineral claim at Watson Bar, north of Lillooet, the scene of countless happy hiking and camping outings, as well as the never-ending search for the "motherlode."

Harry was blessed with a wonderfully long and productive life and never lost his inherent graciousness and mischievous twinkle. He will be fondly remembered by generations of friends, students and relatives.

Harold Copp: 1915-1998

Medical pioneer, researcher and teacher

by Dr. William A. Webber

Dr. Webber is a professor in the Anatomy Dept. and former dean of the Faculty of Medicine. He was also one of Dr. Copp's students.

With the death on March 17 of Dr. Harold Copp, UBC lost one of its most distinguished scientists and committed advocates.

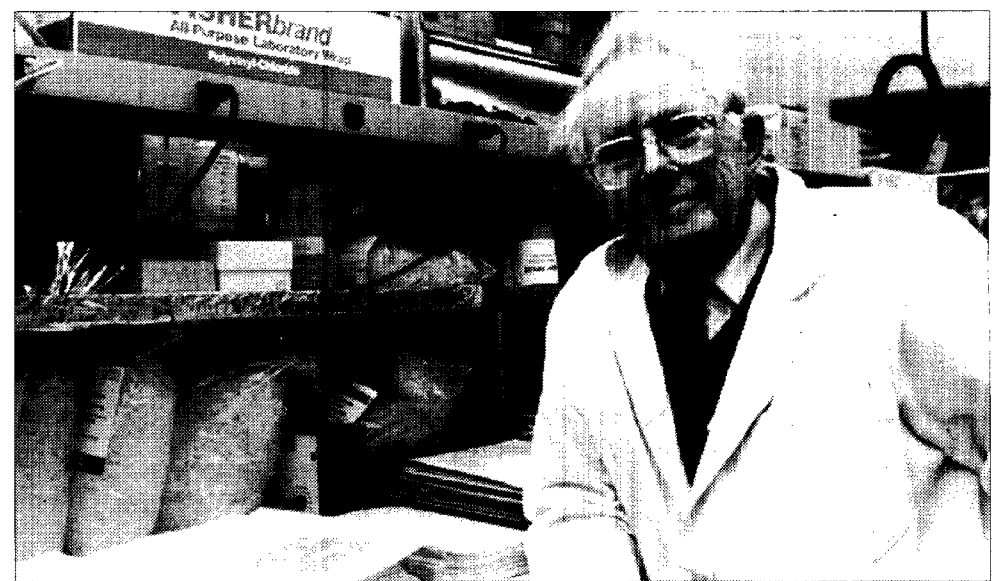
In 1950 he became the first head of the Physiology Dept. in the newly established Faculty of Medicine at UBC.

Along with an impressive group of other remarkably young leaders, he was faced with the daunting task of starting classes with few faculty. He and the late Edgar Black were the Physiology Dept., working in as yet unfinished army huts.

Ever creative, Harold began teaching on the wards of Shaughnessy Hospital. He was always amused that many years later, introducing medical students to patients early in their program was thought to be a new idea.

His research interests were in bone and calcium metabolism and, in spite of the heavy demands of organization and teaching, he rapidly established his research program.

In the late 1950s and '60s he isolated a hormone from the parathyroid and thyroid glands of the throat. That hormone was calcitonin, used around the world to treat osteoporosis. When Harold



found the cells producing calcitonin came from the ultimobranchial gland, he suggested calling the material ultimobranchial calcitonin or UBC.

His distinguished research contributions led to many honours, including fellowship in the Royal Societies of Canada and London, companion of the Order of Canada, and honorary degrees from numerous universities, including UBC.

He was also an outstanding teacher of both undergraduates and advanced trainees, many of whom went on to

academic careers.

After his retirement in 1980 he continued to be both active and interested in the affairs of the university, faculty and department.

He was unfailingly positive whether it was collecting ultimobranchial glands from chickens, facing administrative challenges or dealing, in his later years, with serious health problems.

For me, he was not only an internationally renowned scholar but also a teacher, mentor, colleague and friend.