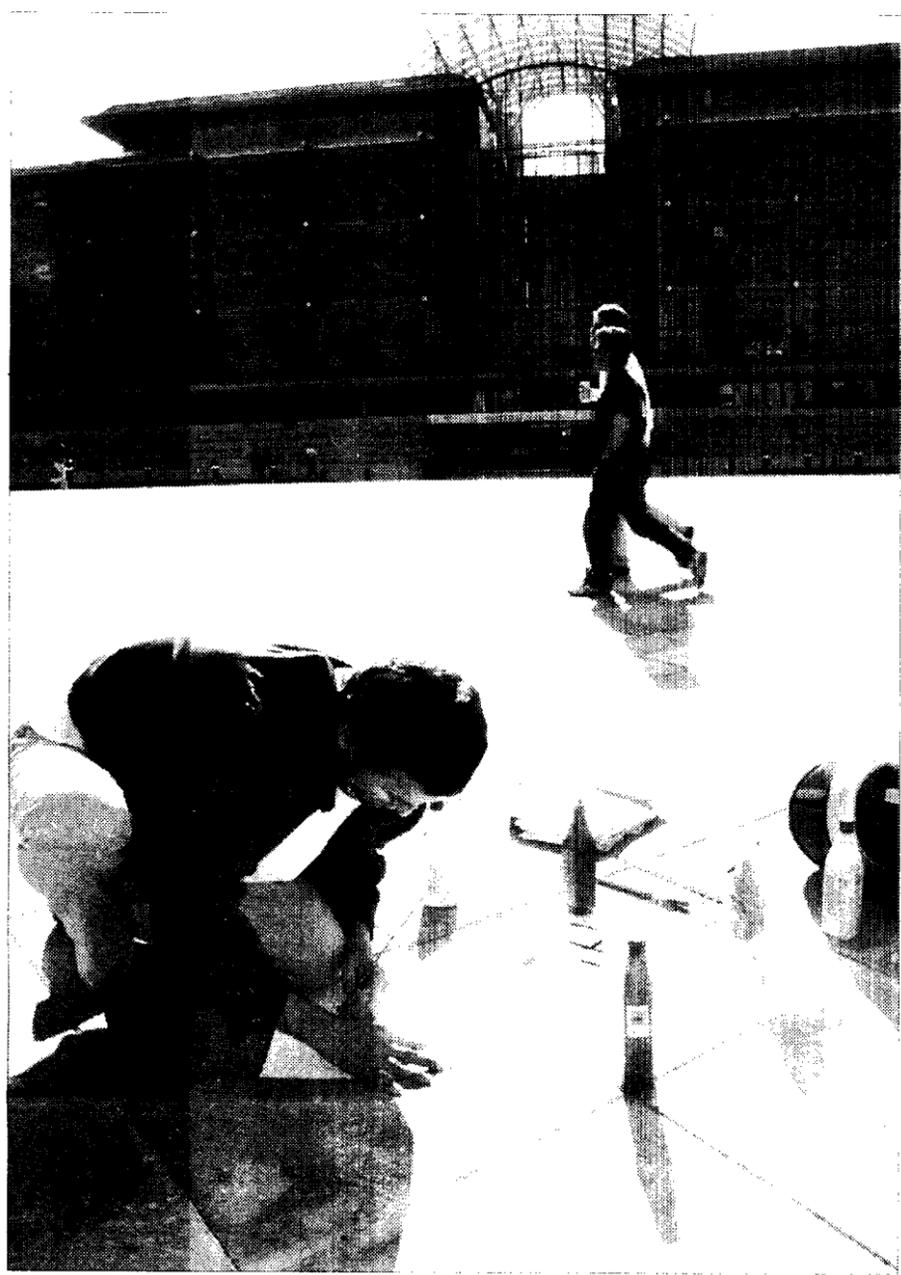


UBC REPORTS

Volume 43, Number 8

April 17, 1997

Find UBC Reports on the Web at www.external-affairs.ubc.ca/paweb/reports/



Stephen Forgacs photo

Side Line

John Berry, a first-year Education student in the Elementary Teaching program, takes advantage of sunny weather to work on an art project on the recently finished plaza in front of the Walter C. Koerner Library. His painting shows a rough outline of the Ladner Clock Tower and Main Library, located opposite the Koerner Library.

South American bird heading for market

by Connie Bagshaw

Staff writer

Maybe tinamou doesn't immediately come to mind as you scan the menu of your favourite eatery, looking for something new to try. But Canadians may soon be feasting on the tender relative of the ostrich and emu, thanks to a team of UBC researchers.

Animal Science Prof. Kim Cheng has been leading the Faculty of Agricultural Sciences' work in developing the tinamou, a native of Chile, for commercial production since 1992 and may be within a year of bringing the new poultry to market.

"We've successfully bred the bird in captivity and found a suitable diet and housing for it," Cheng said. "Once we find a farm site to start production, tinamou could be available within months."

Lower in fat and higher in protein than chicken, the bird has long been prized in South America for its tender white breast meat and mild flavour. Its tenderness is the result of spending most of its time on



Cheng and tinamou

the ground, flying only if it can't find a hiding spot when startled.

With close to 2,000 birds, UBC has the
See **TINAMOU** Page 2

Welcome for new students planned

For the 5,000 first-year students entering UBC this fall, the first day of classes should be an enriching experience. Organizers of the university's first campus-wide welcome certainly hope so.

"Right now what new students get is a very, very large student number," says Alison Dunnet, a third-year political science student and co-chair of the planned orientation day. "We'd like to give people a more personal connection with UBC on their first day."

The welcoming plan is to have students from the same faculty, who will share a course or seminar, meet in groups of 20 on the morning of Sept. 2. Third and fourth-year students will be assigned as group leaders to initially greet newcomers and usher them to a mass event possibly at MacInnes Field or Thunderbird Stadium.

"It won't be 20 randomly assigned students but students who will be interacting with each other in at least the first term," says Neil Guppy, Dunnet's co-chair and associate dean of Arts. "This is a way to say to new arrivals that we are proud you are here and we want to give you some pointers to success."

After inspiring talks from UBC, Alma Mater Society and Alumni Association presidents, the mass gathering will again break into groups for "survive and thrive" workshops.

A brown bag lunch will be followed by an academic scavenger hunt and faculty-specific events introducing deans, alumni and faculty members.

The day, billed as Imagine '97, will wind up with a barbecue and dance.

"This is just a start and future years may well extend this welcome beyond a single day," says Guppy.

Nestor Korchinsky, co-ordinator of UBC's Intramural Sports and Recreation Program, is hoping to create a greater sense of community by building on traditional events such as Day of the Longboat and Storm the Wall.

"We want to create a heightened competitive spirit throughout the year and introduce new innovative events, not just in sport, to get people involved in campus life," says Korchinsky.

Those interested in volunteering for the welcoming day can call Joyce D'Souza at 822-6700.

Feminist Legal Studies Centre founded

UBC will play a major role in advancing feminist legal scholarship in B.C. with the creation of a new Centre for Feminist Legal Studies.

Both Senate and the Board of Governors recently approved a proposal to establish the centre, which will focus on interdisciplinary research and teaching in the areas of feminist legal theory and analysis, including equality, human rights, family law, criminal law, taxation and mental health law.

"This centre will consolidate and build on existing strengths in feminist legal studies at UBC," said Susan Boyd, chair of Feminist Legal Studies. "It will highlight the ways in which legal research, teaching, law reform and litigation have been affected in recent years by the emerging body of feminist legal scholarship."

"We hope that establishment of the centre will enhance our ability to attract research funding and support from the community."

As holder of the Chair in Feminist Legal Studies, Boyd will be involved in initiating the activities of the centre and, on occasion, the activities of the director.

Other research areas under consideration include the study of the history of law and legal institutions as tools of social control and as avenues of social change, and the intersection of race, class, disability and sexual orientation with gender in legal arenas.

Members of the Faculty of Law, members of the academic centre will work with colleagues in various disciplines at UBC and in other institutions and with representatives of community organizations.

The appointment of a director for the new centre is expected to be made by May.

In addition to the centre at UBC, only two other facilities with similar mandates exist at Canadian universities, one located at Simon Fraser University in Burnaby and another at Osgoode Hall Law School at Toronto's York University.

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Profile: Prof. Sherrill Grace's research transformed her view of Canada

University Gathering Place Survey... see Page 6.

Tinamou

Continued from Page 1

largest flock of tinamou in North America. They're the descendants of a few birds that originally arrived in the U.S. in 1972. Plans to introduce them as game birds into California, Oregon and Washington states were abandoned for lack of environmental impact studies.

Although the tinamou may live five years or longer in the wild, it reaches its mature weight of about half a kilogram at between 12 and 16 weeks in captivity under natural lighting conditions.

Master's student Anthony Yuen has been analyzing post-mortem muscle characteristics of the bird, including the degree of acidity, or pH values, and sugar levels — factors which affect the meat's ultimate tenderness. His preliminary findings indicate that 13 weeks is the optimum processing age. Some of B.C.'s finest chefs seem to agree.

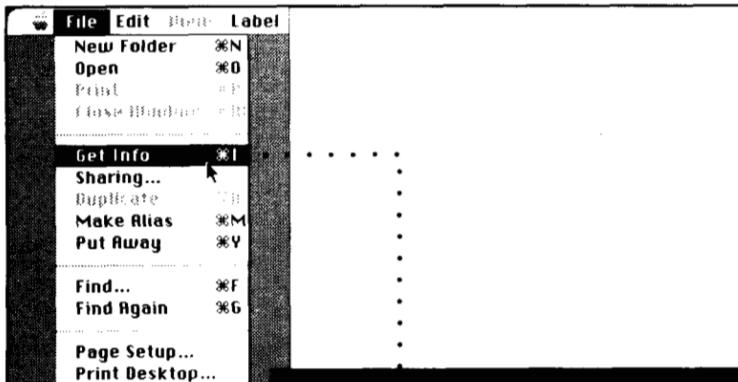
"We've sent both young and old birds to several local restaurants, including the Four Seasons Hotel and Bishop's, and have received mixed responses," Cheng said. "Feedback on the younger birds was good. Apparently they make a nice appetizer when the breast meat is battered and flash fried. Older birds ended up in the stew pot with tomatoes and garlic."

Tinamou eggs are edible and similar to a chicken's in flavour, but it's their glossy, dark chocolate-coloured shells that are most valued, especially by the crafters of decorated eggs. On average, a tinamou hen will lay two eggs a week, from mid-March to September, each one weighing about 40 grams.

Wild, trapped tinamou were marketed as the South American quail in Europe in the late 1800s until they became rare in the wild. Cheng hopes that a commercial flock of 1,000 breeding hens will be established for production this year.

"In a country as rich and industrialized as Canada, it's hard to remember that we need more variety in our diet," he said. "We rely heavily on chicken and turkey as a food source, and it's not healthy to depend on any one species so much."

The tinamou research project is supported by the provincial Ministry of Agriculture, Fisheries and Food, the Demonstration of Agricultural Technology and Economics Projects, the San Rafael Foundation and the Industrial Research Assistantship Program.



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One call may answer all.

THE UNIVERSITY OF BRITISH COLUMBIA
Public Affairs Office



THE UNIVERSITY OF BRITISH COLUMBIA Faculty of Graduate Studies Occupational Hygiene Director

Applications from within the UBC community are invited for the position of Director of the Occupational Hygiene Program.

The Occupational Hygiene Program is an interdisciplinary graduate program concerned with education and research on occupational and environmental exposures and health risks. It consists of eight faculty members, five adjunct faculty members, and more than 20 graduate students. The Director is expected to have demonstrated commitment to research and teaching in Occupational Hygiene, administrative ability, a proven record in obtaining research grants and other fund-raising activities, and a capacity to foster interdisciplinary activity in Occupational Hygiene.

The appointment will be for a period of between two and five years. Applicants should send a letter describing their interest and qualifications for the position, a curriculum vitae and names and addresses of at least three references to whom we can write in confidence to:

Dr. David Kirkpatrick
Associate Dean, Faculty of Graduate Studies
University of British Columbia
180 - 6371 Crescent Road
Vancouver, B.C.
V6T 1Z2

The deadline for application is April 23, 1997.

The University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities.



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The Barn Coffee Shop		7:45 am to 3:15 pm
IRC		8:00 am to 3:00 pm
The Express	April 14 to April 18	7:30 am to 7:00 pm
	April 18 to August 29	7:30 pm to 4:30 pm
Yum Yum's will be closed April 18 to July 6	April 14 to April 18	7:45 am to 3:00 pm

Arts 200, Roots and Edibles closed April 14
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UBC REPORTS

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Interactive Web toolkit delivers courses on-line

Computer Science instructor Murray Goldberg has created a niche for himself on campus—actually, on the World Wide Web.

Two years ago, Goldberg received a grant to put his third-year operating systems course on the Web, complete with interactive exercises, on-line testing and e-mail chat. Last term alone the site had 8,000 sign-ons.

Goldberg has since designed an interactive tool which allows teachers without technical expertise to create sophisticated, web-based presentations of their own courses.

Called WebCT, the tool is being tested by more than 500 institutions around the world.

The WebCT server in Goldberg's lab currently houses about 130 courses, two-thirds of which are based at UBC. Off-campus users include Sheridan, Selkirk and Camosun Colleges, University College of the Cariboo and the universities of Manitoba, South Dakota and California.

Goldberg's server routinely draws 1.5 million "hits" a month.

"Any instructor who wants to build a course and make it available on the Web simply calls me and I set them up," says Goldberg. "This tool seems to have satisfied a repressed need for people to use the Web in a manner that they couldn't before."

Goldberg says designing a course with WebCT is similar to using a word proces-

sor or spreadsheet; users access the tool through a Web browser such as Netscape, click on what they would like to do and are prompted for choices and text. The choices range from reading notes and taking quizzes to performing exercises, tracking student progress and communicating with instructors and students.

"Distance education used to be a solitary experience revolving around paper, textbooks and a telephone number," says Goldberg. "Technologies like WebCT create a sense of community akin to a virtual classroom."

Goldberg points out that WebCT will never usurp live lecturers but does offer a convenient, 24-hour resource for both students and instructors.

An analysis underway by a Douglas College instructor of five on-line educational delivery applications indicates that WebCT is the most comprehensive tool of its kind available.

Goldberg says UBC users will always have free access to WebCT on campus.

Starting in September, Goldberg will be working with the University-Industry Liaison Office to commercialize the technology to off-campus users.

He adds that negotiations are underway to have BC TEL act as service provider for WebCT to potential individual or institutional users.

For more information on the technology go to <http://homebrew.cs.ubc.ca/webct/>.



Charles Ker photo

Prof. Philip Hill, with the Dept. of Mechanical Engineering, has developed a revolutionary technology which many believe could save the diesel engine from extinction. Hill and his colleagues (above) at Westport Innovations Inc. are using a transit bus to launch their clean air invention.

'Cleaner air' bus hits UBC roads for test runs

The 1981 GMC bus parked behind UBC's Dept. of Mechanical Engineering looks, sounds and performs like a regular diesel-powered transit coach with three notable exceptions.

Powered by a unique natural gas injection system, the vehicle emits half the pollutants and costs close to half as much to fuel as its gas-guzzling counterparts. And then there's the paint job.

"She's a beauty," remarks Brad Douville, admiring the blue sky side panels dotted with clouds.

Douville, 27, is chief engineer for Westport Innovations Inc., a UBC spin-off company with big plans for its revolutionary technology called High Pressure Direct (HPD) Injection. He believes the research breakthrough could save the diesel engine from extinction.

Prof. Philip Hill, with UBC's Dept. of Mechanical Engineering, has been developing HPD injection technology with Douville and others in his lab since 1989. Six of his former students have moved into full-time jobs at Westport headquarters located a five-minute walk from Hill's lab.

"I didn't foresee this arrangement when I started but I certainly have no complaints," says Hill, whose research was initially funded by the B.C. Science Council. "The teamwork to date has been fantastic."

Hill's technology, licensed to Westport in 1994 through the UBC's Industry Liaison Office, is not the first attempt to adapt a diesel engine to natural gas. What sets the HPD system apart from other natural gas conversions is that it drastically reduces harmful emissions of both nitrogen oxides and tiny soot particulates without compromising a diesel engine's efficiency or performance.

The U.S. Environmental Protection Agency (EPA) signed an agreement with manufacturers in 1995 to cut emissions from heavy-duty trucks and buses in half starting in 2004. Westport President David Demers says the Westport technology gives manufacturers a low-cost method of meeting terms of the agreement by bringing emissions of nitrogen oxides and particulates below 1998 EPA levels.

The conversion to HPD injection is done without expensive modifications to the engine and power train. The retrofit requires replacing the diesel fuel injectors, adding a natural gas storage tank and a patented on-board gas compressor which maintains high injection pressure as tanks empty.

The secrets to Hill's research breakthrough are the compressor and UBC-designed injectors which have two tiny ports, one for natural gas and another for a jet of diesel fuel to ignite the gas as it is injected into the cylinder.

Diesel fuel in standard engines automatically ignites when it comes in contact with hot compressed air. Natural gas doesn't auto-ignite so the HPD injectors supply supplementary diesel fuel assistance. Other natural gas conversions, such as those in use by B.C. Transit, require a throttle and spark ignition which sharply reduces fuel economy.

Douville will be behind the wheel when Westport rolls out its first demonstration vehicle this month, a 16-year-old bus from the Los Angeles County Metro Transit Authority.

The bus's Detroit Diesel engine, retrofitted with the HPD injection system, will undergo tests for two months in and around UBC before being shipped to California for formal trials.



**Canada's Year
of Asia Pacific**



Centre set up to provide information on APEC '97

The UBC APEC Information Centre is now open to answer questions about the Asia Pacific Economic Co-operation meetings — APEC '97 — which will be held in Vancouver Nov. 22-25.

The meetings cap Canada's Year of Asia Pacific (CYAP), a framework initiative surrounding APEC designed to promote increased business relations, youth involvement and cultural exchanges to broaden understanding within the Asia Pacific region.

UBC will be the venue for the centrepiece APEC economic leaders' meeting on Nov. 25. It is the most important meeting of APEC, where the leaders will discuss key economic and trade issues in the Asia Pacific region.

The leaders' meeting will be held in the Great Hall at the Museum of Anthropology. Prime Minister Jean Chretien and his guests will break for lunch, tentatively planned for Norman MacKenzie House, and then return to the museum in the afternoon to issue the APEC Leaders' Declaration, which is the culmination of the APEC process in Vancouver that week.

UBC was chosen as the meeting site by Prime Minister Jean Chretien over six other venues in Greater Vancouver. It was felt the site would highlight Canada's commitment to using the APEC process to advance education and employment opportunities for youth throughout the region.

Canada is a founding member of APEC, which was formed in 1989 as the principal intergovernmental vehicle for economic co-operation in the Asia-Pacific region, especially in areas such as trade liberalization, human resources development, telecommunications, energy, the environment, transportation and tourism.

Attending the APEC leaders' summit will be U.S. President Bill Clinton, the premier of China and the prime ministers of Japan and Australia, as well as the leaders of Brunei, Chile, Taiwan, Hong Kong, Indonesia, Malaysia, Mexico, New Zealand, Papua New Guinea, the Philippines, South Korea, Singapore and Thailand.

As well as providing a venue for the leaders' summit, UBC has a direct academic involvement in preparing documentation for many of the ministerial meetings leading up to APEC. Academics at UBC are also engaged in research related to the APEC agenda on trade liberalization, standardization, human resource development and other issues.

UBC APEC contacts are: Christopher Brown and Carolyn McLean, members of UBC's APEC co-ordination staff; Eilis Courtney, APEC logistics and site management; and Paula Martin, UBC Public Affairs Office.

For information on the leaders' summit and related events, call the APEC Information Centre at 822-2080, fax 822-1936 or e-mail apec@unixg.ubc.ca.

A UBC APEC Web page is being constructed and will feature basic information on APEC, UBC's involvement, contact names and numbers, a calendar of events and links to many other APEC Web sites.

Regular updates on UBC's involvement with CYAP and APEC will follow in future issues of UBC Reports.



Putting Down Roots

Tracy MacKinnon, president of this year's graduating class council, plants a tulip tree near the Thunderbird Residences in a tradition dating back to 1915. Spring Congregation for the class of 1997 takes place May 25-30 and marks the first time Congregation ceremonies will take place in the new Chan Centre for the Performing Arts.

Scientists in hunt for new schizophrenia treatment

A UBC neuroscientist has received a \$300,000 grant to take a new look at how schizophrenia is affected by dopamine, the natural chemical that regulates brain activity.

Charles Yang, an assistant professor in the Dept. of Psychology, is one of only six researchers in North America to receive a grant from the Montreal-based EJLB Foundation to investigate schizophrenia, the devastating mental illness that strikes one out of every 100 Canadians.

Yang's study will focus on the functions of the brain's prefrontal cortex. Schizophrenia symptoms, including delusions, hallucinations and disorganized thoughts and behaviour, often arise from the dysregulated interplay between the prefrontal cortex and other regions of the brain.

Yang's work could lead to the development of a new generation of anti-psychotic drugs which target prefrontal cortex cells.

"Think of the prefrontal cortex as the human equivalent of a computer's central processing unit," Yang said. "Aided by dopamine, it plays a key role in communicating with other regions of the brain and organizing short-term memory in a sequential manner that allows us to perform our daily activities. This process is defective in schizophrenia."

Many researchers have debated whether it is too much or too little dopamine that brings on schizophrenia symptoms. Yang has framed the problem a different way. He believes it is a dysregulation of brain dopamine levels, swinging back and forth from high to low, that results in the diverse symptoms.

To test his theory, Yang and his collaborators, who include Dr. Susan Sesack of the University of



Gavin Wilson photo

Investigating novel theories of schizophrenia in their Kenny building laboratory are Asst. Prof. Charles Yang (foreground), research associate Natalia Gorelova and graduate student Jeremy Seamans.

Pittsburgh, are conducting experiments that use innovative electrophysiological and neuroanatomical techniques to measure the exact changes in electrical signals within the brain.

For example, Yang will be taking his measurements from the dendrites — fine, branch-like fibres radiating from the brain cells, or neurons. Dendrites act like antennas to receive signals from other parts of the brain, passing the information along to the neurons with the help of dopamine.

Until now, such measurements were done only in the main body of the neuron, which Yang compares to listening to a conversation two rooms away: you can hear that something is being said, but the words are not clear.

Yang's laboratory will also use new techniques to examine the roles of GABA interneurons, which release inhibitory trans-

mitters that work with dopamine to perform a fine-tuning function in the prefrontal cortex.

Yang proposes two scenarios for schizophrenia.

In the first, a low dopamine level parallels a reduction of the function of GABA interneurons, so the dendrites receive an unregulated blast of signals from other parts of the brain, resulting in thought disorders.

In the second scenario, perhaps found most often in younger schizophrenics, an excess of dopamine enhances the inhibitory action of the GABA interneurons, strangling signals in the dendrites.

As incoming signals from other parts of the brain are reduced, the high levels of dopamine may create reverberating signals within the prefrontal cortex. This may explain the aimless, repetitive actions sometimes demonstrated by schizophrenics.

Star athletes earn Big Block honour

by Don Wells
Thunderbird Athletics

Jenny Rauh and Bob Beveridge were named UBC's top athletes for 1996/97 at the annual Big Block Athletic Awards Banquet March 26. At the banquet, 130 students were made Big Block members for having met the requirement of competing for two years on a UBC Thunderbird team.

Rauh, a 25-year-old North Vancouver native and fifth-year Education student, had an outstanding season with the women's volleyball team, leading to a silver-medal finish at the 1997 CIAU Championships last month. The three-year national team veteran was named a first team All Canadian and was one of the most dominant attackers in the country.

UBC was edged 15-12 in the fifth and deciding set of the CIAU final by the three-time CIAU Champion Alberta Pandas.

Beveridge, a six-foot-six, 310-pound offensive tackle with UBC's football T-Birds, received the Bobby Gaul Award as UBC's Most Outstanding Graduating Male Athlete. Beveridge, a 23-year-old native of London, Ont., was a first team All Canadian and was the B.C. Lion's first pick in the Canadian College Draft.

He has also attracted the interest of a number of NFL



Rauh

teams and has been tested by scouts from the Washington Redskins and Houston Oilers.

The T-Birds won their last three league games to finish 5-3 and qualify for the CWUAA final but lost 37-16 to the eventual Vanier Cup Champion Saskatchewan Huskies.

Beveridge is also the president of the Thunderbird Athletes' Council and gives much volunteer time to school groups through the Thunderbird Outreach Program as well as other fund-raising and promotional activities. He graduates this month in Human Kinetics.

The UBC Big Block Club, founded in 1920 and named for the block letters emblazoned on the club sweater, has a total membership of just over 8,000.



THE UNIVERSITY OF BRITISH COLUMBIA

St. John's College

St. John's College is a new residential graduate college that will focus on international research themes and issues. The College is the realization of a dream held by local and international alumni of the former St. John's University in Shanghai (SJU) to revive the spirit of their alma mater. SJU was operational between 1879-1952, with a renowned international reputation as one of the most prestigious and influential universities in China. Its alumni can be found in key posts on both sides of the Taiwan Strait, in Hong Kong, Singapore, and on every continent. Continuing in the tradition of its namesake, St. John's College will strive to build bridges between different parts of the world, serving as an intellectual and social centre for graduate student and senior scholar residents, and for other members of the University of British Columbia and wider community who share the scholarly objectives of advanced international studies. Its aim is to create a vibrant international community in which students from different parts of the world will learn from each other in a collegial setting.

St. John's College is located on the west side of the University of British Columbia campus, close to ocean and forest. The College is being developed in three phases, with completion of Phase I by Sept. 1, 1997, and anticipated completion of Phase II in 1998 and Phase III in 1999 on the 120th anniversary of the founding of St. John's University. Upon completion, St. John's College will have accommodation for 170 residents and will include several lecture facilities, seminar rooms, as well as dining facilities, lounge and social areas, and a landscaped open air courtyard.

Upon completion of Phase I, the College will accommodate 35 graduate students, post doctoral researchers and visiting scholars. In addition to these residential members, there will be a number of members from various academic units on campus and from the wider community who will enrich College life as non-residential members.

Applications for graduate student, post doctoral researcher and visiting scholar residential as well as faculty, graduate student and post doctoral researcher non-residential membership are welcome at any time. Residency in Phase I of St. John's College will commence on Sept. 1, 1997.

**Call for
membership
applications**

For further information or to receive an application form, please contact:

Susanna James,
St. John's College
phone: 822-0533, fax: 822-5802
e-mail: st-johns@mercury.ubc.ca



Health Minister Joy MacPhail met with Dean of Medicine Dr. John Cairns on a recent visit to the Faculty of Medicine. MacPhail also met with physicians and seniors involved in the Community Geriatrics research program, part of the Dept. of Family Practice. The program involves research and evaluates ways of keeping senior citizens healthy and educating family physicians about seniors' fitness. The minister also met with representatives of the Royal Canadian Legion. The Legion funds two professorships in Family Practice, provides annual support for the Community Geriatrics library and supports a new position for the development of a long-term research strategy in Family Practice primary care for seniors in the province.

Calendar

April 20 through May 3

Sunday, Apr. 20

Green College Performing Arts Group

Learn The Highland Fling. Caroline Butler, Green College resident. Green College 8pm. Call 822-6067.

Monday, Apr. 21

Physics and Astronomy - Astronomy Seminar

The Evolution Of The Galactic Globular Cluster System. Chigurupati Murali, CITA, U of Toronto. Hennings 318, 4pm. Refreshments 3:30pm. Call 822-2802.

Biochemistry and Molecular Biology Discussion Group Seminar

The Mechanism Of Assembly And DNA Binding Of Multimeric Transcription Factors Composed Of Fos, Jun And NFAT. Mark Glover, U of Alberta. IRC #4, 3:30pm. Refreshments. Call 822-3027.

Resident Speaker Series

Rendering The Imagination: The Making Of A Computer Animation. Allen Rempel, Computer Science. Green College, 5:30pm. Call 822-6067.

Tuesday, Apr. 22

Centre for Applied Ethics Colloquium

Territory And Sovereignty: Legitimate States And The Right To Secede. David Copp, Philosophy, U of California, Davis. Angus 214, 4-6pm. Call 822-5139.

Medical Genetics Seminar

ABC Transporters And Multidrug Resistance. Dr. Victor Ling, Pathology, Wesbrook 201, 4:30-5:30pm. Refreshments 4pm. Call 822-5312.

Talk

Song Of The Ancient Ocean. Rocky and Lucia Turning, organizers of exhibit "Turning Back The Sky." MOA theatre gallery, 7:30pm. Call 822-5087.

Wednesday, Apr. 23

Orthopedics Grand Rounds

Why Some Athletes' Knees Do Not Get Better. Dr. P.H. Wright, Orthopedics, Vancouver Hospital/HSC, Eye Care Centre Auditorium, 7am. Call 875-4646.

C.A. McDowell Lecturer in Chemical Physics

Spatial Taming And Trapping Of Molecules. Prof. Dudley Herschbach, Chemistry, Harvard U. Angus 110, 1pm. Call 822-3266.

Lectures in Modern Chemistry

Let There Be Light: Genesis Of Meteor Trails. Prof. Dudley Herschbach, Chemistry, Harvard U. Angus 110, 4pm. Call 822-3266.

Thursday, Apr. 24

Graduate Student Conference

Re-Emerging Surfaces. Shifting Paradigms: The Unfolding Masks Of Hispanic Literature. Judith Payne, Hispanic Studies, U of Victoria. Green College, 7:30pm. Reception in Graham House, 6:45-7:30pm. Conference continues April 25 and 26, 10am-4pm. Open to all Graduate Students, registration fee \$5. Call 822-6067.

Friday, Apr. 25

Conference

Postpartum Depression, Breastfeeding, And Anti-Depressants - Not A Simple "Yes" or "No". Dr. Zachary Stowe, Emory U, Atlanta. Vancouver Hospital/HSC, Koerner Pavilion, 8:30am-5pm. Pre-registration \$75, incl. lunch. At the door \$85. Call 731-3755.

Pediatrics Grand Rounds

Hemophilia In The '90s. Dr. Jeff Davis, Pediatrics, GF Strong Auditorium, 9am. Call 875-2307.

Health Care and Epidemiology Rounds

Perspectives On Community Health Councils/Committees. Donald Campbell, Professor Emeritus, Pathology, Mather 253, 9-10am. Call 822-2772.

Cultural And Media Studies Interdisciplinary Group

Narratives Of Complicity: Narratives Of Resistance - Thinking About Women As Victims Of Violence. Kathleen Jones, Associate Dean, College of Arts and Letters, San Diego State. Green College, 3:30pm. Call 822-6067.

Festiva '97

Attend The Largest Celebration Of Multiculturalism On Campus! Cultural Performances, Displays, And Foods From Around The World. International House and Asian Centre, 5pm-midnight. \$5 in advance, \$6 at the door. \$3 children. Call 822-5021.

Saturday, Apr. 26

Know Wonder Time

Making A Paper Garden For Kids Of All Ages. Bookstore, 1:30pm. All materials supplied. Call 822-2665.

Sunday, Apr. 27

Green College Performing Arts Group

A Stage Reading. The Green College Players. Green College, 8pm. Call 822-6067.

Monday, Apr. 28

Resident Speaker Series

The Importance Of The Endothelium In Diseased And Transplanted

Heart. Li Li, Pathology, Green College, 5:30pm. Call 822-6067.

Tuesday, Apr. 29

Presentation

Canadian Science And Technology Growth Fund. Peter Morand, President, NSERC. OAB Board and Senate room, 9-11am. Refreshments. Call 822-5159.

Medical Genetics Seminar

Chromosomal Control Of The Meiotic Cell Cycle: Lessons From Humans And Mice. Patricia Hunt, Genetics, Case Western Reserve U. Wesbrook 201, 4:30-5:30pm. Refreshments 4pm. Call 822-5312.

Notices

Morris and Helen Belkin Art Gallery Exhibition

New Art From Cuba: Utopian Territories. March 22 - May 25, 1997. Gallery hours: Tuesday - Friday, 10am-5pm; Saturday, 12-5pm. 1825 Main Mall. Call 822-2759.

Museum of Anthropology

Mau: Turning Back The Sky. An exhibit of contemporary native Hawaiian art. Continues to June 30. Wednesday-Sunday, 11am-5pm; Tuesday, 11am-9pm (free admission, 5-9pm). Call 822-5087.

UBC Food Services - Summer Closures

Arts 200, La Tour, Roots and Edibles will be closed April 14, 1997. Pacific Spirit Place, Trekkers, The Express, Barn Coffee Shop and IRC Snack Bar will be open to serve you all summer! Visit our Web site @ www.foodserv.ubc.ca. Call 822-3663.

Surplus Equipment Recycling Facility

Weekly sales of furniture, computers, scientific etc. held every Wednesday, noon-5pm. SERF, Task Force Building, 2352 Health Sciences Mall. Call 822-2582.

Garden Hours and Tours

March 8 - October 13, 10am-6pm. Botanical Garden tours will be given by garden volunteers Wednesdays and Saturdays, 1pm.

Wednesday, Apr. 30

Orthopedics Grand Rounds

Assessing Orthopedic Outcomes - Measures That Matter. Dr. Charles Wright, Dr. K. Chambers, Dr. K.A. Stothers, Dr. D.S. Garbuz, Orthopedics, Vancouver Hospital/HSC, Eye Care Centre Auditorium, 7am. Call 875-4646.

Friday, May 2

Pediatrics Grand Rounds

Asthma, Chronic Lung Disease And GE Reflux - What's The Connection? Dr. Eric Hassall, Pediatrics, GF Strong Auditorium, 9am. Call 875-2307.

Health Care and Epidemiology Rounds

National Survey Of Sun Exposure And Protective Behaviour: People At Leisure. Mather 253, 9-10am. Call 822-2772.

Saturday, May 3

Film

Au Revoir Les Enfants. Celebration of retirement of Prof. Hanna Kassis. SUB theatre, 7pm. By donation. Call 822-4658.

Next calendar deadline:
noon, April 22

Call 822-9666 (gardens), 822-4529 (shop).

Faculty Development

Would you like to talk with an experienced faculty member, one on one, about your teaching concerns? Call the Centre for Faculty Development and Instructional Services at 822-0828 and ask for the Teaching Support Group.

Parents with Babies

Have you ever wondered how babies learn to talk? Help us find out! We are looking for parents with babies between two and 14 months of age, and between two and three years 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, Dept. of Psychology, 822-6408 (ask for Dawn).

Parent Care Project

Daughters/daughters-in-law who are caring for a parent in a care facility are needed for a counselling psychology study on the challenges women face in parent care. Involves individual interviews/questionnaire. Call Allison at 822-9199.

Feeling Stressed Out at Work

Counselling Psychology Dept. at the University of British Columbia needs female clerical workers in the Vancouver area to participate in a study looking at work-related stress, over two months. If interested contact Marlene at 822-9199.

Genital Herpes

Dermatology is looking for persons 18 years and older who are able to attend seven visits. Honorarium will be paid upon completion of study. Call 875-5296.

Eczema Study

Dermatology is looking for persons 12-40 years old who have a current

flare of eczema. Honorarium will be paid for five visits over a 15-day period. Call 875-5296.

Facial Psoriasis

Division of Dermatology is looking for persons 18 years and older, able to attend five visits over eight weeks. Call 875-5296.

AMS Life Drawing Club

Drawing sessions from a nude model. Every Thursday until May. Lasserre 204, 12:30-2:15pm. Call 822-0074.

Boomerang Family Research

The Counselling Psychology Department is looking for adults who have returned home to live. They and their parents are invited to participate in a study focusing on the experience, interpersonal relations and responses to this change in the family. Involves confidential interviews. Please call 432-1915 or 291-3694 for more information.

Study for Psoriatic Arthritis

Division of Dermatology is looking for persons 18 years and older, must have psoriasis as well as psoriatic arthritis. Honorarium paid upon completion. Call 875-5296.

Do You Have Patellar Tendinitis?

Recruiting volunteers for a study looking for the presence of inflammatory cells in chronic patellar tendinitis. Must be 18-35 yrs., male or female, symptoms at least three months. Call Dr. Donna MacIntyre at 822-0799. Also recruiting volunteers for a study evaluating a physical therapy exercise based treatment. Must be 20-35 yrs., male or female, symptoms greater than two to three months. For more information call Tyler at 734-3777.



THE UNIVERSITY OF BRITISH COLUMBIA

School of Social Work The 8th Social Work Symposium Research Day

Theme: Working with Diverse Communities:
Social Work Research Issues

Friday, May 2, 1997
9:00 a.m. - 3:30 p.m.

Location: School of Social Work
2080 West Mall, UBC
Fee: \$30.00 regular fee
\$15.00 students & field instructors
(lunch & refreshments provided)

For further information contact: Darlene Murdoch at
822-5035 or e-mail: darlene@socialwork.ubc.ca

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.ubc.ca> under 'News.' Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space.

Deadline for the May 1 issue of UBC Reports — which covers the period May 4 to June 14 — is noon, April 22.



THE UNIVERSITY OF BRITISH COLUMBIA

UNIVERSITY GATHERING PLACE

SURVEY OF POTENTIAL USERS

In early January 1997, an advisory committee was formed at the request of the UBC Board of Governors, to investigate the feasibility of re-opening the old faculty club building as a university gathering place. The board requested that the committee "prepare a development program and cost estimates to determine whether the faculty club building can be re-opened as a financially viable university gathering place, with respect to both its operating and capital budgets."

At a subsequent meeting, the board further instructed the committee to define the concept of a university gathering place. In consultation with various university members, the advisory committee has discussed a general concept which includes the following assumptions:

- The existing building structure be preserved. (Refurbishment and moderate expansion of the existing 17-room overnight facility may be considered.)
- A multi-purpose university gathering place be established.

In developing and evaluating this general concept, and in presenting an overview of the university gathering place to the Board of Governors, the advisory committee needs the input of all members of the university community. The committee has developed the attached survey to compile the opinions of all interested parties.

Please be as forthright as you can as your response will form part of a long term plan for the University Gathering Place.

A. General

1. How important do you think it is to the university community to have the old faculty club building used as a social and academic gathering place?

Very Important	Somewhat Important	Not Very Important	Not Important At All	No Opinion
<input type="checkbox"/>				

2. How important is it to you as an individual to have the old faculty club building used as a social and academic gathering place?

Very Important	Somewhat Important	Not Very Important	Not Important At All	No Opinion
<input type="checkbox"/>				

3. Were you entitled to use the old faculty club?

Yes	No	Don't Know
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

B. Services

4. If a university gathering place were to be established in the old faculty club building, how often would you use the following services?

	Weekly	Monthly	Occasionally	Never
• Breakfast (informal)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Lunch:				
- informal (e.g. cafeteria)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- "reserved" sit-down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- buffet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Sunday brunch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Dinner				
- informal (e.g. cafeteria)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- "reserved" sit-down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Lounge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Pub	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Reading Room	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• University-related meetings (non-social)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• University social functions (e.g. luncheons, receptions)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Personal/private social functions (e.g. weddings, entertaining)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Accommodation for campus visitors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Other (please specify) _____				

C. Membership and Access

5. Do you support the concept of "membership" to the university gathering place or should the facility be open to the general public?

There should be membership (Go to question 6)

There should be a mix of member-only areas and public areas (Go to question 6)

The facility should be open to everyone (Go to question 7)

6. If you feel there should be membership, who do you think should be eligible? (Check as many as applicable.)

- | | |
|--|--|
| <input type="checkbox"/> Faculty | <input type="checkbox"/> Graduate Students |
| <input type="checkbox"/> Management/Professional Staff | <input type="checkbox"/> Undergraduate Students |
| <input type="checkbox"/> Union Staff | <input type="checkbox"/> Corporate Memberships |
| <input type="checkbox"/> Research/Doctoral Fellows | <input type="checkbox"/> General Public |
| <input type="checkbox"/> University Departments (business memberships) | <input type="checkbox"/> University Affiliates (alumni, major donors, Board of Governors appointees) |
| <input type="checkbox"/> Retired Faculty/Staff | <input type="checkbox"/> Other _____ |

7. How would the level of monthly dues affect your willingness to be a member

7. How would the level of monthly dues affect your willingness to be a member of the gathering place? (Please respond for each amount.)

	Definitely Belong	Probably Belong	Probably Not Belong	Definitely Not Belong
No monthly dues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$15 monthly dues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$30 monthly dues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$45 monthly dues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Percentage of salary/ tuition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A sliding scale for dues based on different membership privileges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. If there were dues-paying members of the gathering place, what level of non-member access would you support?

- Public access during the day by member invitation only Yes No
- Public access to dining and lounge facilities during off-peak (evening/weekend) hours Yes No
- Public access for special events (weddings, receptions) Yes No
- Public access to entire building except for an area set aside for dues-paying members Yes No
- Other (please specify) _____

D. Personal Information

9. What is your primary affiliation with UBC? (Check one box only.)

- | | |
|--|---|
| <input type="checkbox"/> Faculty | <input type="checkbox"/> Graduate Student |
| <input type="checkbox"/> Management/Professional Staff | <input type="checkbox"/> Undergraduate Student |
| <input type="checkbox"/> Retired Faculty/Staff | <input type="checkbox"/> University Area Resident |
| <input type="checkbox"/> Union Staff | <input type="checkbox"/> Alumnus |
| <input type="checkbox"/> Research/Doctoral Fellow | <input type="checkbox"/> No UBC Relation |
| | <input type="checkbox"/> Other _____ |

10. To what age group do you belong?

- | | |
|-----------------------------------|----------------------------------|
| <input type="checkbox"/> Under 25 | <input type="checkbox"/> 46 - 55 |
| <input type="checkbox"/> 25 - 35 | <input type="checkbox"/> 56 - 65 |
| <input type="checkbox"/> 36 - 45 | <input type="checkbox"/> 65+ |

11. In what part of the Lower Mainland do you reside?

- | | |
|---|--|
| <input type="checkbox"/> On campus | <input type="checkbox"/> North Shore |
| <input type="checkbox"/> University Endowment Lands | <input type="checkbox"/> Richmond/Ladner |
| <input type="checkbox"/> Vancouver | <input type="checkbox"/> Surrey/Delta/White Rock |
| <input type="checkbox"/> Burnaby/New Westminster | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Port Coquitlam/Coquitlam | |

12. Do you have other comments or suggestions? _____

THANK YOU

PLEASE ENSURE YOU HAVE ANSWERED ALL THE QUESTIONS AND RETURN YOUR COMPLETED SURVEY TO THE ADDRESS NOTED BELOW.

Lyn Manning
 Dept. of Financial Services
 General Services Administration Building
 University of British Columbia
 #305 - 2075 Wesbrook Mall
 Vancouver, B.C. V6T 1Z1
 Phone: 822-2455 Fax: 822-2417 E-Mail: lyn@finance.ubc.ca



THE UNIVERSITY OF BRITISH COLUMBIA

WASTE REDUCTION PROGRAM

1995/96 ANNUAL REPORT

Executive Summary

The UBC Waste Reduction Program had a very productive year in 1995/96. As well as promoting waste reduction and resource conservation in the University community, the Waste Reduction Program began the amalgamation of the recycling and garbage systems. Key accomplishments in 1995/96 included implementation of the following programs:

New Recycling Collection System - this involved the tendering and acquisition of a side-loading recycling truck, 2000 wheeled carts and educational materials. The new recycling system will increase recycling capacity, reduce operating costs and improve worker safety. Implementation will begin in May 1996.

Fluorescent Lamp Recycling - collection of fluorescent lamps for recycling has been very successful. Used lamps are sent to a local processor, where mercury, aluminum and glass are recovered for secondary use. In 1995/96, approximately sixty-six thousand linear feet of lamps were collected; if placed end to end the lamps would stretch from UBC to Burnaby (20km).

Acadia Composting Pilot Project - this project involved the testing of an experimental in-vessel composting unit. Approximately 2.6 tonnes of kitchen waste were diverted from the landfill. The project enjoyed a high rate of participation, which indicates that, in addition to recycling, students are willing to separate organics from their garbage.

These programs contributed directly to positive waste reduction results in 1995/96. Solid waste sent from UBC for disposal decreased by 6% from the previous year while the quantity of material collected for recycling and composting increased by 9%. The total solid waste stream at UBC in 1995/96 equalled 4073 tonnes. Of this total, material diverted to recycling and composting accounted for 1252 tonnes, or 31%.

The Waste Reduction Program, in its effort to provide comprehensive recycling and composting services to the campus community, will be undertaking the following new projects in 1996/97:

Expansion into Waste Management - the Waste Reduction Program will become the Waste Management Office to reflect our new responsibility as managers of the UBC municipal solid waste stream. The combined responsibilities will encourage a more proactive approach to waste reduction and recycling opportunities in the community.

Promotional and Educational Materials - a reusable mug will be produced to encourage the University community to "lug-a-mug." Also, the "green student guide" will be revised and republished in response to the popularity of the first edition (1500 copies were distributed in one month). The purpose of the green guide is to introduce students, staff and faculty to the recycling and waste reduction opportunities available at UBC.

Greening the Campus Projects - the Waste Reduction Program will act as an advisor and an information resource for students working on waste reduction and recycling projects. Two examples are: residence waste audits and a GIS map of recycling and garbage equipment.

1.0 Introduction

The Waste Reduction Program was created in 1991 within the Department of Plant Operations. Its formation was the result of increased public concern over the long-term environmental effects of solid waste disposal and resource over-consumption. The Waste Reduction Program currently manages campus-wide paper, cardboard and multi-material recycling operations, and provides education, information and advice on waste reduction and recycling to the UBC community.

The people behind the Waste Reduction Program are:

- Mary Jean O'Donnell - Waste Reduction Coordinator
- Revel Nora Kunz - Recycling Operations Coordinator
- Bernard Dick, Gary Wolfram - Recycling Crew

Program Mission

To initiate, coordinate and promote waste reduction, reuse, recycling and composting activities at the University of British Columbia, with the ultimate aim to make waste reduction and resource conservation an integral part of campus life.

Program Goals

- To raise awareness and understanding in the University community of the principles, practices and benefits of waste reduction and resource conservation.
- To provide comprehensive, cost effective recycling and composting services to the University community.
- To act as a catalyst and resource for waste reduction initiatives undertaken by campus departments and student organizations.
- To monitor, record and communicate waste reduction progress at UBC so that the campus community can see the results of its waste reduction efforts.
- To act as a stakeholder in the development of University policy regarding conservation and sustainability.
- To maintain associations with business, government, environmental organizations and other educational institutions in order to benefit from an exchange of ideas on waste reduction.

50% Waste Reduction Goal

The waste reduction goal set by the Government of British Columbia states that the per capita disposal rate in the year 2000 should be reduced to 50% of the 1990 per capita waste generation rate (disposed+recycled+composted). This target has been adopted by regional and municipal governments across the province and is the minimum standard by which waste reduction progress at UBC will be measured.

The waste generation rate at UBC in 1990/91 equalled 127 kg/person. Five years out from this baseline the disposal rate stands at 91 kg/person. Thus UBC has achieved a 28% reduction in per capita waste disposal according to B.C. Ministry of Environment criteria.

2.0 Waste Reduction Progress at UBC

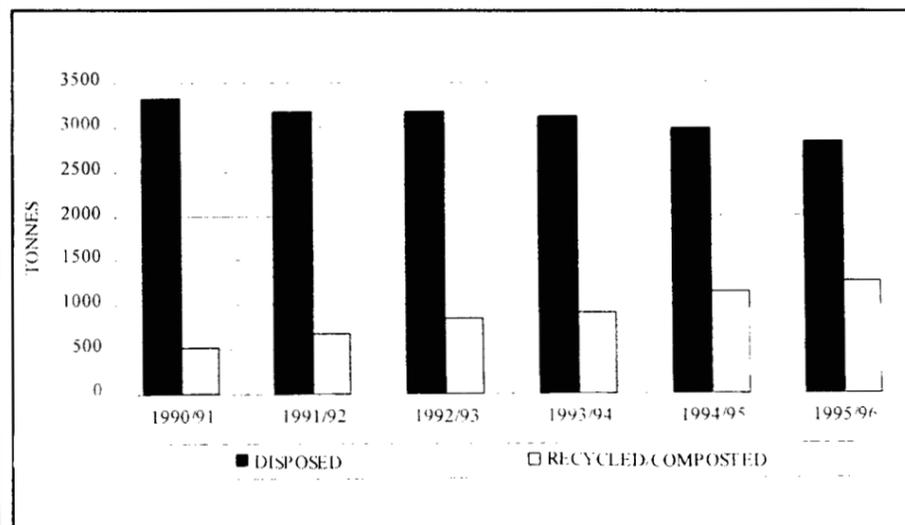
The UBC community continued to make positive waste reduction progress in 1995/96. The quantity of solid waste sent for disposal declined 6% from the previous year and material diverted to recycling and composting increased 9%. These results, outlined in Table 1 below, can be directly attributed to the on-going waste reduction and recycling initiatives - the Waste Free UBC Program, Residence Recycling & Composting programs and the Green Bin cardboard recycling program.

Table 1

Waste Reduction Summary	1994/95	1995/96
Disposed (tonnes)	2981	2821
Recycled/Composted (tonnes)	1147	1252
Total Waste Generated	4127	4073
% Recycled & Composted	28%	31%
Campus Population (FTE)	31208	30898
Waste Disposed per Capita (kg/person)	96	91
% Reduction in Waste Disposed per Capita (from 1990/91 baseline)	25%	28%

UBC now recycles and composts 31% of its solid waste stream. The positive waste reduction and recycling trend at UBC since 1990/91 is clearly illustrated in Chart 1. A detailed breakdown of the UBC solid waste stream can be found in Appendix A.

Chart 1: UBC Solid Waste Stream



3.0 Key Accomplishments in 1995/96

New Recycling Collection System

The Waste Reduction Program began implementation of the University's new recycling system. This involved the specification, tendering and purchase of wheeled carts, a side loading vehicle and educational materials. The wheeled carts, in conjunction with the new truck, will collect mixed paper and commingled containers (metal cans, glass & plastic bottles) directly from all campus buildings, including the residences and ancillary operations. It is anticipated that the new system will increase recycling capacity, reduce operating costs and significantly improve worker safety by reducing manual handling of material.

Fluorescent Lamp Recycling

Fluorescent lamp recycling has been very successful to date. As they are replaced, old fluorescent lamps are collected for recycling by the Plant Operations Electrical Shop. Nu-Life Industries in Aldergrove collects the used lamps to recover mercury, aluminum and glass for secondary use. As of March 31, 1996 the University had recycled 66,182 linear feet of lamps; if they were laid end to end, the lamps would stretch from UBC to Burnaby (20km).

Acadia Composting Pilot Project

The Acadia composting pilot project was an excellent research tool for examining the future of food waste composting at the UBC. This program diverted approximately 2.6 metric tonnes of food and garden waste to an experimental, in-vessel composter known as "Beulah." Although the project target group was limited to Acadia Hi-Rise residents; communication with other residents indicated that individuals from Fairview and Thunderbird Apts. were also bringing their food scraps to Beulah. This project clearly demonstrated that the residence community has a high level of interest in composting. A student was employed to operate and test the effectiveness of the experimental composter. Unfortunately, "Beulah" suffered from repeated mechanical breakdowns, therefore, the efficacy of this equipment will be reviewed in the summer of 1996. However, mechanical problems notwithstanding, and past projects have demonstrated the viability of food waste composting at UBC.

Waste Free UBC

Approximately 3,000 staff and faculty in over 45 departments are now participating in the Waste Free UBC program. Waste Free UBC is an on-going program that makes individuals responsible for the waste they generate and challenges them to reduce that waste. The key components of this program are the elimination of deskside garbage collection and the introduction of a mini garbage can (called oskar the grouch). Individuals now carry their recyclables and garbage to central waste stations located in lunchrooms or photocopier rooms. The Waste Free system compels individuals to become aware of the waste they generate and results in increased levels of waste reduction and recycling participation.



THE UNIVERSITY OF BRITISH COLUMBIA

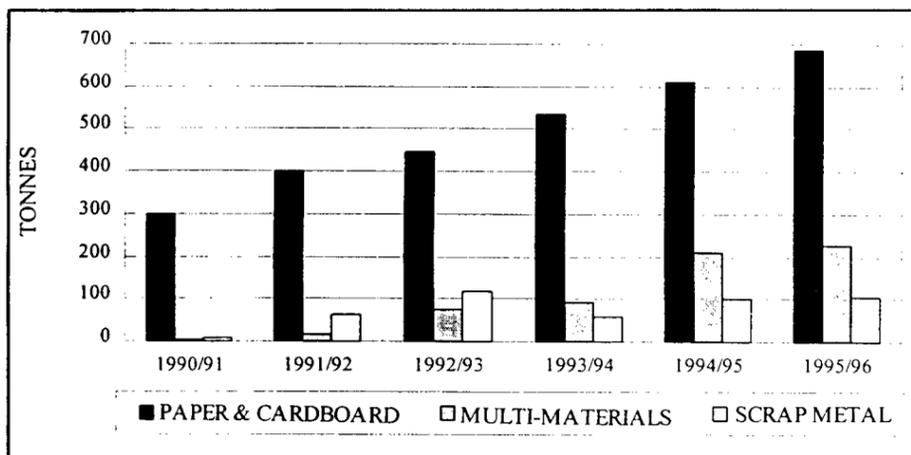
Waste Reduction Program 1995/96 Annual Report

4.0 Recycling and Composting Programs

Paper and Cardboard Recycling

The Waste Reduction Program operates a campus-wide paper and cardboard recycling program. The total quantity of paper and cardboard recycled through this system in 1995/96 was 846 tonnes, an increase of 12% over the previous year. Materials collected include: fine paper, mixed paper, newsprint, magazines, hard cover books, telephone books and cardboard. The Waste Reduction Program also offers confidential document shredding services on a fee for service basis. Paper and cardboard recycling totals at UBC since 1990/91 are shown in Chart 2.

Chart 2: UBC Recycling Programs



Multi-Material Recycling

Multi-material recycling refers to "Blue Box" type programs in which a wide range of recyclable materials are collected. These materials include: newsprint, mixed paper products, plastic containers, metal cans and glass bottles. Multi-material recycling is available in all UBC residences, food service outlets and at the Student Union Building. The total quantity of material collected through these programs in 1995/96 was 230 tonnes - up 8% from the previous year.

Grounds Waste Composting

The Department of Plant Operations has been composting grounds waste at UBC for many years. Approximately 1000 - 1200 cubic metres of garden waste, leaves, grass cuttings, tree prunings, brush, dead fall and stumps are diverted to the South Campus compost piles each year. This represents about 200 tonnes of organic material. Finished compost is used as a soil amendment on the campus grounds.

Food Waste Composting

In addition to the Acadia project, several other food waste composting projects were undertaken on campus over the past year. The AMS and St. Andrew's Hall contract with a local hauling company (BFI) for the collection of kitchen waste. This material is transported to the Envirowaste composting facility in Aldergrove. UBC Food Services is considering initiating this program in September 1996. The department of Continuing Studies purchased a "BioBox" (a steel construction composter) for composting their food scraps. The BioBox complements the Waste Free program already in place in Duke and Carr Hall. Approximately 20 tonnes of campus food scraps were collected for composting in 1995/96.

Other Recycling Initiatives

There are a wide variety of materials collected at UBC for recycling which have so far escaped classification in this report. These materials include:

- **used office furniture, lab equipment and computers** collected by the Surplus Equipment Recycling Facility (SERF) for resale.
- **gypsum wallboard** collected by Plant Operations during building renovations. 8 tonnes of gypsum was collected for recycling in 1995/96.
- **scrap metal** collected by SERF and Plant Operations. 105 tonnes of scrap metal was collected for recycling in 1995/96.
- **motor oil, oil filters, antifreeze, vehicle batteries, and tires** collected from the Plant Operations garage.
- **photocopier and laser printer toner cartridges** collected by individual departments across campus in manufacturer sponsored recycling programs.
- **styrofoam packing chips** collected in various labs across campus. These chips are reused by a local shipping company.
- **mattresses** collected by UBC Housing from student residences. These are either reused at the UBC Research Forest or sent to a local reupholsterer.

Table 2 illustrates the quantities of material recycled and composted in 1995/96, while Appendix B provides a detailed breakdown of materials recycled and composted over the past 6 years.

Table 2: Quantities of Material Recycled/Composted in 1995/96

Breakdown by Material	tonnes
Paper	663
Cardboard	183
Containers (metal, glass, plastic)	70
Scrap Metal	105
Fluorescent Lamps	3
Gypsum	8
Food Waste	20
Grounds Waste	200
Total	1252

End Markets for Recycled Material from UBC

Waste materials collected at UBC are recycled into a variety of useful products. Examples of these products are provided in Table 3 along with the companies involved in hauling, brokering and processing the recycled material. Our waste is a resource!

Table 3: End Markets for Recycled Material from UBC

Recycled Material	Hauler/Broker	End Market	End Products
Paper	Weyerhaeuser Int'l Paper Industries	B.C. - Island Paper, Crown Packaging U.S. - James River Paper, Ore. China, Korea, Philippines, Taiwan	photocopy paper, tissue paper, linerboard, egg cartons, roofing paper, ceiling tiles
Newspaper	Weyerhaeuser Int'l Paper Industries	B.C. - Newstech China, Korea, Philippines, Taiwan	newsprint, telephone books, insulation
Cardboard	Weyerhaeuser Int'l Paper Industries	B.C. - Crown Packaging China, Korea, Philippines, Taiwan	boxboard, linerboard
Glass	Int'l Paper Industries Regional Recycling	B.C. - Consumers Glass Alta. - Vitreous Environmental	bottles, jars, architectural blocks and tile, drain rock
Metal	Int'l Paper Industries Regional Recycling Richmond Steel	Ont. - Alcan U.S. - MRI Corp., Wash.	cans, auto parts, steel beams, industrial products
Plastic	Int'l Paper Industries	B.C. - Merlin Plastics, Eco Superwood	non-food containers, auto parts, carpets, fleece jackets, plastic wood products
Gypsum	New West Gypsum	B.C. - New West Gypsum	gypsum wallboard
Styrofoam Packing Chips	The Packaging Depot	B.C. - The Packaging Depot	reused packing material
Laser Toner Cartridges	Benndorf Verster Tenex Data	B.C. - Benndorf Verster, Tenex	remanufactured cartridges
Fluorescent Lamps	Nu Life Industries	B.C. - Nu Life Industries	mercury, aluminum
Mattresses	Value Mattress	B.C. - Value Mattress	remanufactured mattresses
Tires	Action Tire	B.C. - Innovative Waste Technologies, Northwest Rubber Mats	rubber mats, paving bricks, running tracks, mud guards
Used Oil	Used Oil Collection	B.C. - Mohawk Oil	re-refined motor oil
Oil Filters	Laidlaw Environmental Services	U.S. - Filter Recycling Services, Ca.	re-refined motor oil, metal, rubber
Batteries	Batteries Unlimited	B.C. - Metalex Products	lead, plastic
Anti-Freeze	Recycle West	Alta. - Canadian Oil Reclaimers	recycled anti-freeze

5.0 Education and Promotion

Public Communication

A variety of media were used to convey the waste reduction and resource conservation message to the campus community in 1995/96. These included:

- Department Recycling Contacts
- Information Pamphlets
- Newsletter Articles
- Newspaper Articles
- Published Annual Report
- Student Green Guide
- UBC-TV ads
- Waste Reduction Action Kit
- Environment Week
- Recycling Posters
- Employee Orientation Presentations
- Compost Day
- Information Seminars
- Residence Recycling Representatives
- Campus Directory Blue Page
- ViewUBC Site

Community Involvement

In an effort to promote waste reduction objectives within the University community and to stay current with developments in the external community, the Waste Reduction Program is actively involved in a number of working groups, committees and associations. These include:

UBC Community Recycling Group - a collaboration of campus departments and student groups formed to address solid waste management issues at the university.

UBC Environmental Programs Advisory Committee - a committee formed by the Department of Health, Safety and Environment to review and make recommendations on UBC activities and progress related to environmental compliance.

UBC Hazardous Waste Management Team - a working group organized by the Department of Health, Safety and Environment to address reduction and recycling of chemical waste at UBC. Publishes "Waste Watchers" a quarterly bulletin on waste issues at the university.

UBC Sustainable Development Policy Committee - an administrative committee formed to develop University policy on campus sustainable development.

UBC Greening the Campus Program - an educational program in which students receive academic credit for real-life projects aimed at ecological improvement of the campus community.

GVRD Local Solid Waste Advisory Committee - a committee of local stakeholders created to provide input on the Greater Vancouver Regional District's new solid waste management plan.

Recycling Council of British Columbia - a non-profit society dedicated to the promotion of waste reduction, recycling and ecological sustainability in British Columbia.

6.0 Waste Reduction Program Costs

The net cost for Waste Reduction Program activities in 1995/96 was \$157,039. This included administration, operating and capital expenditures minus material and collection revenues. Increased revenue from the sale of recycled paper and cardboard helped to reduce total costs by 4% over the past year. A summary of program costs is provided in Table 4. Detailed cost data, including projections for 1996/97, can be found in Appendix C.

Table 4

Waste Reduction Program Costs	1994/95	1995/96
Program Management	\$71,960	\$84,493
Paper and Cardboard Recycling	\$68,049	\$39,646
Multi-Material Recycling	\$3,225	\$5,182
Food Waste Composting	\$3,750	\$3,750
Education & Promotion	\$5,262	\$9,662
Program Operating Cost	\$152,246	\$142,733
Capital Expenditures	\$44,169	\$14,306
Total Program Cost	\$196,415	\$157,039
Avoided Landfill Charges (\$69/tonne)	\$79,143	\$86,388



THE UNIVERSITY OF BRITISH COLUMBIA

Waste Reduction Program 1995/96 Annual Report

7.0 New Projects for 1996/97

Expansion into Waste Management

The Waste Reduction Program is expanding its role and responsibilities at UBC. In 1996/97 we will become the Waste Reduction, Recycling and Disposal Office to reflect our new responsibility as managers of the entire UBC municipal solid waste stream. The added responsibilities promise to be challenging and yet satisfying in that a more proactive approach to waste reduction and recycling will be possible. Customer service will also be improved via "one-stop shopping" for waste removal services.

Educational Materials

In 1996/97, several new education initiatives are planned. These include: an "eco-mug" which will be designed to encourage the university community to "lug-a-lug" rather than rely on disposables. The central feature of this promotion will be a "styrofoam wall" which represents one person's consumption of disposable cups for a year. Also, the second edition of the "Green Student Guide" will be produced and published. This popular booklet offers information and advice on waste reduction, recycling and composting opportunities to students, staff and faculty.

Greening the Campus Projects

The Waste Reduction Program will act as a resource and information source for students completing waste reduction, recycling and composting projects. Projects will range from a GIS. map of the location of all the waste management equipment to a waste audit of Gage Towers.

Implementation of the New Recycling System

The summer of 1996 will focus on the implementation of the new recycling program. The new recycling vehicle and wheeled carts are scheduled to arrive at the end of April while implementation is scheduled to begin in May, when three summer students will be hired to assist with the implementation. It is anticipated that the new program will be functioning campus-wide by September 1996. Winter session 1996/97 will be the testing ground for new system.

This project will involve the removal of 90 per cent of the old "rack and bag" system which will be replaced by the new wheeled collection carts. Approximately 4,000 pieces of recycling equipment will be handled during the summer of 1996. During phase-in, can and bottle collection will be limited to the exterior of most buildings, except those with very high traffic flows, such as the Student Union and Henry Angus buildings.

Expansion of the Green Bin Cardboard Program

The GVRD has announced a ban on cardboard in the Burn's Bog Landfill in January 1997. In order to comply with the ban and to avoid expensive surcharges, the University must expand the number of cardboard collection bins on campus. To date, the Green Bin cardboard collection program has been very successful, recycling 26 per cent more cardboard than when it was collected manually.

8.0 Objectives for 1996/97

- Continue publishing newspaper and newsletter articles.
- Improve our Web page by updating it to HTML and linking it to other related sites.
- Participate in community events such as Welcome Back UBC Days at the Bookstore, Residence Orientation, Environment Week and Composting Day to increase campus awareness of waste reduction and resource conservation issues.
- Investigate options for an integrated composting system at UBC that will handle both grounds waste and food waste.
- Continue development of a formal waste management plan for the University. This plan will focus on each component of the waste stream and outline material specific waste reduction strategies.
- Continue to work with the Recycling Council of B.C. to promote province-wide programs, such as manufacturers responsibility and an expanded deposit/refund system, which will help UBC reduce its waste.
- Takeover operation of the residence recycling program. This change will satisfy CUPE 116 requirements with regard to contracting out services. In-house management and operation of this program will also produce material handling efficiencies and has the potential to decrease recycling costs.

Appendix A: UBC Solid Waste Stream

	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
DISPOSED	3323	3170	3165	3121	2981	2821
Paper Recycling	258	343	402	471	565	663
Cardboard Recycling	42	64	105	136	178	183
Container Recycling (metal, glass, plastic)	3	12	17	24	79	70
Florescent Lamp Recycling	0	0	0	0	0	3
Scrap Metal Recycling	10	63	116	58	103	105
Gypsum Recycling	0	0	6	15	10	8
Food Waste Composting	0	0	0	6	12	20
Grounds Waste Composting	200	200	200	200	200	200
RECYCLED/COMPOSTED	514	682	847	910	1147	1252
TOTAL WASTE GENERATED (tonnes)	3836	3852	4012	4031	4127	4073
% Recycled & Composted	13%	18%	21%	23%	28%	31%
Undergraduate Students (FTE)	20427	20726	20383	20532	20073	20044
Graduate Students (FTE)	4422	4770	5088	5461	5570	5351
Full-time Faculty	1870	1880	1851	1851	1847	1831
Full-Time, Salaried Staff	3483	3450	3450	3450	3718	3672
U.B.C. CAMPUS POPULATION	30202	30826	30772	31294	31208	30898
Waste disposed per capita (kg/person)	110	103	103	100	96	91
Waste generated per capita (kg/person)	127	125	130	129	132	132
% REDUCTION IN WASTE DISPOSED PER CAPITA	13%	19%	19%	21%	25%	28%

Appendix B: UBC Recycling Composting Statistics

	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
BREAKDOWN BY PROGRAM						
Fine Paper	152	169	162	171	180	178
Newsprint	19	38	42	47	39	41
Books	6	31	33	64	77	44
Mixed Low Grade Paper	80	99	106	120	137	241
Cardboard	42	64	105	136	178	183
PAPER & CARDBOARD	300	402	448	537	611	687
Mixed Low Grade Paper	0	3	32	35	69	79
Newsprint	0	2	28	35	63	81
Plastic Containers	0	2	2	3	8	10
Metal Cans	1	3	4	5	21	14
Glass Bottles	2	8	11	16	50	46
MULTI-MATERIALS	3	18	77	94	211	229
SCRAP METAL	10	63	116	58	103	105
GYPSUM	0	0	6	15	10	8
FLORESCENT LAMPS (est.)	0	0	0	0	0	3
FOOD WASTE (est.)	0	0	0	6	12	20
GROUND WASTE (est.)	200	200	200	200	200	200
TOTAL	514	683	847	911	1147	1252

	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
BREAKDOWN BY MATERIAL						
Fine Paper	152	169	162	171	180	178
Newsprint	19	41	69	82	102	121
Books	6	31	33	64	77	44
Mixed Low Grade Paper	80	102	138	155	206	320
PAPER	258	343	402	471	565	663
CARDBOARD	42	64	105	136	178	183
Plastic Containers	0	2	2	3	8	10
Metal Cans	1	3	4	5	21	14
Glass Bottles	2	8	11	16	50	46
CONTAINERS	3	12	17	24	79	70
SCRAP METAL	10	63	116	58	103	105
GYPSUM	0	0	6	15	10	8
FLORESCENT LAMPS	0	0	0	0	0	3
FOOD WASTE (est.)	0	0	0	6	12	20
GROUND WASTE (est.)	200	200	200	200	200	200
TOTAL	514	683	847	911	1147	1252

All quantities in metric tonnes. All information obtained from certified weigh bills, unless otherwise noted.

Appendix C: Waste Reduction Program costs

	1994/95 Actual	1995/96 Actual	1996/97 Projected
PROGRAM MANAGEMENT			
Expenses: Wages (2 full-time staff)	\$70,200	\$70,200	\$75,500
Student Assistants	\$3,180	\$8,900	\$20,150
Telecomm	\$333	\$350	\$500
Office Supplies	\$323	\$274	\$500
Computer H/W, S/W and Repair	\$274	\$8,000	\$500
Expenses Subtotal	\$74,310	\$87,724	\$97,150
Revenues: Recycling Mgmt. Fees (from Housing)	(\$2,350)	(\$3,231)	\$0
Revenues Subtotal	(\$2,350)	(\$3,231)	\$0
Net Management Cost	\$71,960	\$84,493	\$97,150
PAPER & CARDBOARD RECYCLING			
Expenses: Vehicle	\$131,573	\$12,400	\$56,116
Vehicle Fuel & Maintenance	\$9,870	\$2,033	\$0
General Supplies	\$600	\$600	\$600
Expenses Subtotal	\$142,043	\$15,033	\$61,716
Revenues: Special Pickup/Shredding	(\$5,725)	(\$3,000)	(\$5,000)
Ancillary/Independent Units	(\$17,065)	(\$20,000)	(\$30,000)
Material Revenue	(\$51,204)	(\$72,387)	(\$13,000)
Revenues Subtotal	(\$73,994)	(\$95,387)	(\$48,000)
Net Paper & Cardboard Recycling Costs	\$68,049	\$9,646	\$13,716
MULTI-MATERIAL RECYCLING			
Expenses: Residence Recycling Program	\$16,450	\$34,886	\$40,000
SUB Service Contract	\$3,225	\$1,225	\$0
Fluorescent Lamp Recycling	\$0	\$3,957	\$1,000
Expenses Subtotal	\$19,675	\$40,068	\$41,000
Revenues: Residence Cost Recovery	(\$16,450)	(\$34,886)	(\$40,000)
Revenues Subtotal:	(\$16,450)	(\$34,886)	(\$40,000)
Net Multi-Material Recycling Costs	\$3,225	\$5,182	\$1,000
COMPOSTING			
Expenses: Composting Pilot Projects	\$3,750	\$3,750	\$1,000
Composting Costs	\$3,750	\$3,750	\$1,000
EDUCATION & PROMOTION			
Expenses: Newspaper Advertising	\$0	\$2,300	\$3,000
ViewUBC Listing	\$960	\$960	\$960
Graphic Design, Printing, Mailing	\$556	\$4,344	\$5,000
Coffee Cups	\$0	\$0	\$4,300
Memberships	\$170	\$205	\$250
Subscriptions	\$800	\$853	\$1,000
Conferences	\$2,776	\$1,000	\$3,000
Revenues: Coffee Cup Sales	\$0	\$0	(\$1,500)
Revenues Subtotal:	\$0	\$0	(\$1,500)
Net Education & Promotion Costs	\$5,262	\$9,662	\$16,010
PROGRAM OPERATING COST			
PROGRAM OPERATING COST	\$152,246	\$142,733	\$128,876
CAPITAL EXPENDITURES			
Paper Recycling: Collection Boxes	\$12,139	\$6,677	\$1,840
Warehouse Renovations	\$2,000	\$500	\$0
Cardboard Recycling: Front Load Containers	\$24,330	\$4,500	\$0
Multi Material Recycling: Collection Bins	\$0	\$2,629	\$0
Waste Free Program: Oscar the Grouch Bins	\$5,700	\$0	\$0
CAPITAL EXPENDITURES	\$44,169	\$14,306	\$1,840
TOTAL PROGRAM COST			
TOTAL PROGRAM COST	\$196,415	\$157,039	\$130,716
AVOIDED COSTS			
Paper/Cardboard Diverted to Recycling (tonnes)	611	687	725
Multi-Materials Diverted to Recycling	211	229	250
Scrap Metal Diverted to Recycling	103	105	100
Fluorescent Lamps Diverted to Recycling	0	3	6
Gypsum Diverted to Recycling	10	8	0
Food Waste Diverted to Composting	12	20	30
Grounds Waste Diverted to Composting	200	200	200
Total Tonnes Recycled/Composted	1147	1252	1311
Avoided Garbage Collection & Landfill Costs (\$69/tonne)**	\$79,143	\$86,383	\$86,526

** Landfill fees were decreased to \$65/MT in July 1996. This change is included.

News Digest

The Dept. of Biochemistry and Molecular Biology is hosting the Michael Smith Symposium on April 25-27 to celebrate Smith's long and distinguished career at UBC and salute his 65th birthday.

Smith's past and present colleagues at UBC, including students and post doctoral fellows, have been invited to attend.

Speakers at the symposium will include Dr. Richard Roberts, who won a Nobel Prize in Medicine in 1993 for his work on the discovery of splicing of mRNA in eukaryotic cells. Smith and Roberts were on sabbatical at the same time in Dr. Fred Sanger's lab at MRC Cambridge in the late 1970s.

The full schedule of speakers is on the Biochemistry Web site <http://www.biochem.ca> under "Notices." Two reunion dinners are also being held.

Colleagues wishing to attend the symposium should pre-register. Contact Diana Crookall, Dept. of Biochemistry and Molecular Biology at 822-2656.

•••••

A departmental reorganization in the Faculty of Dentistry was recently approved by Senate.

The three former departments of Clinical Dental Sciences, Oral Biology, and Oral Medical and Surgical Sciences were disestablished and replaced with the departments of Oral Biological and Medical Sciences, and Oral Health Sciences.

The reorganization reflects a Senate decision made in 1994 that the minimum size for departments, schools and divisions be 15 full-time faculty members.

The new departments will facilitate many of the faculty's research collaborations. The changes will also result in savings in administrative costs and will create greater efficiency in some faculty committee and administration infrastructure.

The new departments came into being April 1.



THE UNIVERSITY OF BRITISH COLUMBIA

April 17, 1997

Dear Colleagues:

Policy #20, Advertising of Position Vacancies

Thirty-three units responded to the request for departmental consultation on possible revisions to the wording that UBC uses in advertising job vacancies.

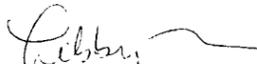
The suggestions received represented a wide range of divergent views on the relationships between our commitments to employment equity and merit, as well as the way to express these commitments. Submissions were thoughtful. No strong consensus emerged in favour of one wording over others.

Therefore, following deliberation by senior administration and the Academic and Student Affairs Committee of the Board of Governors, the following revision has been drafted as a proposal to replace the first paragraph of Policy 20, for approval at the May meeting of the Board of Governors.

In accordance with UBC's employment equity program, (see Policy #2), all advertisements shall include the statement: "UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply."

If there are any further comments or suggestions, please send them to me by the end of April so that they can be considered before final approval is given.

Sincerely,


Libby Nason
Vice Provost



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Classified

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

The deadline for the May 1, 1997 issue of *UBC Reports* is noon, April 22.

Accommodation

POINT GREY GUEST HOUSE A perfect spot to reserve accommodation for guest lecturers or other university members who visit throughout the year. Close to UBC and other Vancouver attractions, a tasteful representation of our city and of UBC. 4103 W. 10th Ave., Vancouver, BC. V6R 2H2. Phone or fax (604)222-4104.

TINA'S GUEST HOUSE Elegant accom. in Pt. Grey area. Minutes to UBC. On main bus routes. Close to shops and restaurants. Inc. TV, tea and coffee making, private phone/fridge. Weekly rates available. Tel: 222-3461. Fax: 222-9279.

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

SHORT-TERM ACCOMMODATION - daily, weekly or monthly rate until mid-June. Very reasonable rates. comfortable queen beds, quiet, kitchen and laundry facilities. 5 blocks from UBC. Very close to bus. Call Douglas at 222-8073.

PENNY FARTHING INN 2855 West 6th. Heritage House, antiques, wood floors, original stained glass. Ten minutes UBC and downtown. Two blocks from restaurants, buses. Scrumptious full breakfasts. Entertaining cats. Views. Phones in rooms. Call (604)739-9002. E-mail: farthing@universe.com.

BRIGHT ATTRACTIVE ONE BR apartment close to UBC, with patio and one affectionate cat. Fully furnished and equipped. Available from mid-June for two months, possibly longer. \$800/month. Please call 228-8825.

FRANCE. TWO 1 BR fully furnished apartments. One located central Paris and one 25km south of Paris. Also one modern fully-furnished house, Provence, overlooking Rhone, in vineyard. Weekly or monthly rates available. Call 738-1876.

UBC GATES, FURNISHED HERITAGE house, 3 bed, den, 2 bath, newly painted. Close to UBC, shops, schools, parks. Lease for minimum of one year. Available May 1/97-Aug 31/98, start/end dates flexible. NS/NP. \$1975/mo., including utilities and gardening. 228-9874.

WEST END SUBLET. Furnished two-bedroom apartment available from May 1 to June 20. Great view. \$1100/month all included; neg. Parking available. Quiet. Near shops. Easy bus routes and car access to UBC. (604)602-0891.

FURNISHED, 4 BR, 2 1/2 BATH U.E.L. house for rent. Walking distance to UBC, schools, Pacific Spirit Park, golf course, beach, and easy bus access downtown. N/S: available June 1/97-Nov 30/97, \$2000.00/mo. + utilities (negotiable). Call 228-0550.

Accommodation

WEST POINT GREY, MODERN furnished 3 bedroom house. 2 bathrooms, big yard, deck. Close to UBC. N/S. From June 7 - July 31. Call 224-1787.

MODERN 700 SQ FT 2 BR CONDO for rent with deck, view. Available July 1/97. Includes laundry, fireplace, security alarm, underground parking. \$750/month + damage deposit. References required. Nanaimo/Hastings area. UBC, SFU buses close. 251-4722.

EDGEMONT VILLAGE HOUSE for rent July and August for \$1800/month. 988-1818.

DUNBAR, MODERN furnished 4-bedroom home, 2.5 baths, living room, den, family room, 2-car garage; near schools, shopping, bus route; 10 minutes to UBC. September 1, 97 - August 31, 98; \$2500/month; phone 263-3800.

CLEAN, BRIGHT, FURNISHED, separate and private one bedroom in newly renovated character home - Fraser and E 11th, fridge, no cooking n/s \$350.00 mo. Available for minimum 3 months. Call 263-3342.

DUNBAR 4 BR HOME AVAIL. 1 June - 15 August. Character house, fully furnished and equipped. Quiet location, with deck and garden. \$1800/month, including utilities and gardener. Housekeeper/Nanny also available. Please call 228-1567. References required.

FULLY FURNISHED 5 BR HOME 3 baths, hardwood floors, gas fireplace, private yard, quiet street. 10 minute bike to UBC. July/97-July/98. \$2300/month. References. N/S N/P. 224-4024.

SPACIOUS 1 BR FURNISHED BSMT. suite. Cosy knotty cedar living room. Private entrance. Quiet South Granville location. Near buses or parking available. N/S and no pets. Including utilities and laundry \$700/month. 261-7153.

SALTSPRING ISL. SPRING RETREAT. Waterfront, south facing, 3-bedroom home with fireplace; spectacular views; private beach, perfect for windsurfing and kayaking; relax on the deck; walking trails from your doorstep. The great escape. Experience tranquility! T/F(604)739-8590.

Housing Wanted

TEACHER SEEKS accommodation. Shared, sublet or house sitting. Early May to August or later. Kitsilano or Point Grey. David Heinemann, North West College (250)624-6054 ext 5729 office; (250)627-8218 home.

DESIRE HOUSE EXCHANGE OR RENTAL for one year, starting summer/97. Our furnished house in SF bay area near UC Berkeley is ideal for family; looking for similar housing near UBC, preferably Kits/Point Grey. Call (510)763-9828.

4 BR FURNISHED HOME wanted close to UBC for visiting English family with nanny for month of July. Excellent references. Please call 228-9600 evenings, 822-6428 daytime.

Services

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

INCOME TAX PREPARATION. Ed Jackson. 224-3540.

NOTARY PUBLIC Real Estate transactions. Mortgages. Wills. Powers of attorney. All notarial services. Call Jim McFeely at 221-8848, 4th and Alma, in Insurance Office.

TRAVEL - TEACH ENGLISH The Canadian Global TESOL Training Institute offers in Vancouver a one week (June 18-22) eve/wkend intensive course to certify you as a Teacher of English (TESOL). 1000s of overseas jobs avail. NOW. Free info pack (403)438-5704.

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MISSING



Many of Canada's migratory birds are disappearing. To help save them, call 1-800-26-PANDA and ask about adopting a kilometre of migratory bird flyway.



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M. Sprague photo

High Order

UBC President David Strangway received the Order of Canada medal from Gov. Gen. Romeo LeBlanc in Ottawa recently. Strangway was appointed an officer of the Order, the second of its three ranks and was among 43 Canadians inducted into the Order. Also inducted were: native artist Robert Davidson; Ernie Coombs, better known as Mr. Dressup; comedian Frank Shuster; and three members of the rock band Rush.

People

by staff writers

Blair Grabinsky, manager of Career Services, has been named to the University's Business Advisory Committee on Youth Employment.

Other committee members include **Roslyn Kunin**, executive director of the Laurier Institution and a member of the Board of Governors, and **Martin Glynn**, chief operating officer of the Hongkong Bank of Canada and former president of the Alumni Association.

The committee is chaired by **Paul Lee**, general manager of Electronic Arts (Canada) and 1996 winner of the Alumni Association's Outstanding Young Alumnus Award.

The committee will look for ways business and government can create more job opportunities for youth that allow for future advancement beyond entry-level positions and are not government subsidized.

.....

UBC Pulp and Paper Centre graduate student **John Senger**, was recently awarded first prize at the 11th Canadian Graduate Students' Seminars organized by the McGill University Pulp and Paper Research Centre. Senger was selected from among 17 pulp and paper graduate students who made presentations. An MSc candidate working under Mechanical Engineering professors **Daniel Ouellet** and **Gary Schajer**, Senger presented a paper on "The Effects of Pulp Furnish and Refiner Speed on Residence Time in a High Consistency Refiner." The paper was co-authored by Ouellet and Chad Benning of the Pulp and Paper Centre of UBC. Senger's thesis is on the "Forces on Fibres in Mechanical Pulp Refining."

.....

Books by three UBC faculty members have been ranked among the year's best health sciences books by *Doody's Rating Service: A Buyer's Guide to the 250 Best Health Sciences Books, 1997*.

The books are: *Critical Thinking: Understanding and Evaluating Dental Research*, by **Donald Brunette**, professor in the Dept. of Oral Biological and Medical Sciences; *The Effects of Drugs on the Fetus and Nursing Infant: A Handbook for Health Care Professionals*, by **Jan Friedman**, professor and head of the Dept. of Medical Genetics; and *The Five-Factor Model of Personality: Theoretical Perspectives*, by **Jerry Wiggins**, a professor emeritus in the Dept. of Psychology.

The books were selected from a database of more than 2,700 titles. Doody Publishing is one of the world's foremost independent reviewers of health sciences books.



Friedman



Campus works

Financial Management Information System

New financial system speeds information access, accuracy

by Stephen Forgacs

Staff writer

Faculty and departmental administrative staff will soon have instant access to up-to-date information on their unit's financial status and employees, and the ability to generate detailed reports thanks to sweeping changes to the university's financial information system.

At present, the types of reports generated from the Financial Records System are limited in scope and, since many transactions take two weeks or more to enter the system, not current. Also, requests for certain reports must currently go through Financial Services rather than being generated by the end user.

Ian Burgess, manager of Financial Information and Reporting in Financial Services, said the changes in the application now taking place will greatly enhance access to financial information for both Financial Services and the university community.

"Information that is now generated in hard copy and then manipulated at the departmental or faculty level to meet specific reporting requirements, will be available electronically," Burgess said.

Information will be available to all users in Microsoft Excel, allowing them to further customize reports on grant or operating fund activity, for example.

Beyond the improved reporting capabilities, the new system will also allow administrators to enter transactions into the system directly rather than submitting them to Financial Services on paper and then having them entered centrally.

"The new system is intended to be a distributed one whereby, as departments are connected and the process is developed, they will be able to enter their purchase requisitions, requisitions for payment, internal requisitions, cash receipts, time sheets and employee information directly from their desks," Burgess said. "The entries will be processed overnight allowing for quicker access to information."

Connectivity remains an important issue as the university's computer systems are upgraded. Burgess said that, to take full advantage of the new system, all departments will require at least one PC operating in a Windows '95 or NT environment. Initially Macintosh computers won't be able to access the system. Inquiry access will be available via the World Wide Web until departments are properly connected.

Faculty and other staff representatives are contributing to the project through involvement on a number of committees established to ensure the needs of end users are met. Burgess said. And two faculties, Medicine and Arts, are working with Financial Services to test the new system when it comes on-line, scheduled for the fall of 1997.

Another change that comes hand in hand with the new system is a move away from a 10-digit chart of account, a series of numbers used for financial transactions and comprising an account code and object code. Under the new Financial Management Information System, the 10-digit chart of accounts is replaced by a longer series of chart fields that will allow better reporting of the source and use of funds. Burgess said that although the new series includes a maximum of 44 digits, only 25 of those are active and usually only a few of the 25 will have to be changed from one transaction to another. Some of the chart fields will appear by default in the electronic form used to record a transaction.

The series of chart fields includes codes representing: fund — the classification of revenue according to purpose; project/grant — used to track assets, liabilities, revenues and expenses to a specific activity, contract or grant; department identification; and account — nature of a transaction by type. Business unit and budget year will appear by default on electronic forms. Two optional fields will allow further classification of transactions by users. Burgess said entry screens or forms can easily be customized and pull-down menus with code choices and descriptions will be added to various screens to make filling them out less of a challenge to the user.

To help administrators learn how to best use and adapt the system for their purposes, Financial Services will provide training prior to and during the introduction of the system. Although support measures are still under consideration, Burgess said a central help desk will be established to help staff with questions and problems relating to the new system.

Testing of the system will begin this summer, and it is scheduled to replace the old system completely on Oct. 1.

A future team will deal with the human resources/payroll aspect of the system and with changes in the purchasing system.

Program seeks graduate interns

UBC is co-ordinating a six-month internship program in Asia for 30 university graduates interested in sustainable development. The internships begin this September.

Wayne Nelles, program director, said participants will be selected from diverse academic backgrounds and should have a demonstrated interest in environmental and development issues.

"The project seeks to prepare a new generation of ecologically and socially responsible Canadian youth to further sustainable development objectives and career opportunities," said Nelles. "It is designed to enhance long-term

partnerships between Canada and Asia Pacific nations."

Applicants must be aged 21 to 29 and have a post secondary diploma or degree. Nelles said placements would be with government, business or non-governmental organizations.

Application forms will be available in May or June.

The program is being offered in collaboration with Langara College and the University of Northern British Columbia in Prince George. Funding comes from Human Resources Development Canada.

For more information call 822-8198 or see the Web site at www.sdri.ubc.ca.

Profile

An Enduring Myth

English Prof. Sherrill Grace studies the North for what defines us

by Gavin Wilson

Staff writer

Sherrill Grace was working in her home office when the drone of a twin-engine airplane prompted her to look out the window.

Its bright yellow fuselage bold against the blue sky, the plane circled English Bay once and then headed north. The sight filled Grace with longing. It reminded her of the Canadian North — the focus of her recent work and fast becoming a personal passion.

"There is still a romance about it. I'm afraid. The North has that quality, and an extraordinary beauty. We want to go there for adventure, to be purified," says Grace, a professor in the Dept. of English who has made three trips to the Arctic in the course of her research.

When Grace spied the north-bound airplane, she was writing a chapter of her new book, *Canada and the Idea of North*. In its pages she will explore the impact the North has had for 150 years on the Canadian psyche, shaping our politics, art, music, culture and geography.

Grace contends that the Canadian North is as enduring a myth of cultural and national significance as the American West is to the United States.

But what does it really mean to Canadians, she wonders. How is it used to shape cultural identity and government policy? And where, exactly, is the North? Torontonians proudly sing that they are "the true North, strong and free," but residents of Inuvik or Churchill would scoff.

"The North has a powerful hold over our imaginations, but we have an extremely vague notion of what the North really is and one that has nothing to do with the real people who live there and the issues they face," Grace says.

One of the key elements in the construction of Canada's cultural identity that she is exploring is how artists have portrayed the North.

Group of Seven painters Lawren Harris and A.Y. Jackson both made trips to the Arctic and sub-Arctic. Their work had a direct influence on poet F.R. Scott and playwright Herman Voaden, among others, and helped to establish a pattern that continues today in works by Judith Thompson, Margaret Atwood, Rudy Wiebe and Mordecai Richler.

But not only artists have been concerned with the North, as Grace points out.

"The North has been used since Confederation to try to unite the country. Whenever there has been a crisis and a need to build confidence in our future, people invoke what Glenn Gould called 'the idea of North' to encourage national pride and spirit."



Sherrill Grace's fascination with the Canadian North includes Sir John Franklin's ill-fated and mysterious expedition of 1845-47. "There's something haunting about it," Grace says of the voyage, a recurring motif in Canadian literature.

It worked for John Diefenbaker, whose "northern vision" helped give him the greatest landslide victory in Canadian electoral history in 1958. Doing her research, which has taken her to Baffin Island, Bathurst Inlet and by car up the Dempster Highway to Inuvik, Grace has begun to understand how the concept of North is sometimes used to exploit northerners and manipulate those of us in the south.

"It's completely changed the way I think about this country. North of 60 degrees, people are often living in Third World conditions and face many social problems and issues that are ignored in the south."

With an eye on the formation of Nunavut in 1999, Grace intends to call the last chapter of her book, "The North Writes Back." It will feature the thoughts of northern historians, sociologists, writers and artists, who are finally

gaining a voice.

Grace has devoted herself to the study of Canadian culture and literature since her days as a graduate student at McGill University. After joining UBC in 1977, she quickly

established herself as a major critic of Canadian literature with books on Margaret Atwood and Malcolm Lowry. Many say her most important publication is 1989's *Regression and Apocalypse: Studies in*

North American Expressionism, which examines the influence of German Expressionism on the art, theatre and fiction of 20th-century Canadians and Americans.

But it is her work on Lowry — the troubled, peripatetic British writer who wrote much of his masterpiece, *Under the Volcano*, while living in a squatter's shack on the Dollarton mud flats — that is earning her the greatest attention.

Her doctoral work on Lowry culminated in 1982 in a well-received book, *The Voyage That Never Ends: Malcolm Lowry's Fiction*. Later, she edited a 1992 anthology of critical essays on Lowry. And now the second volume of *Sursum Corda! The Collected Letters of Malcolm Lowry* has just been published. "Sursum Corda" is a Latin phrase from the Mass meaning "lift up your hearts" that Lowry used to close many of his letters.

Although UBC's library has the world's greatest collection of Lowry manuscripts, letters and memorabilia, Grace also scoured private collections and libraries throughout Europe and North America for the letters, almost 800 of which she has published.

"Some people say, 'If only he had stopped writing letters he might have written more fiction, perhaps another *Under the Volcano*.' I say, 'Yes, but these glorious, glorious letters should be enjoyed on their own merits.'"

In the letters, Lowry displays a stunning gift for language. He also provides analyses of literature, insights into politics and people and comments on his own writing, Grace said.

His most famous letter, written to publisher Jonathan Cape in 1946, is a chapter by chapter exegesis of *Under the Volcano*. The letter is 30 pages long and in it Lowry explains his allusions to Dante, Faust, the garden of Eden, the Cabbala and much more. The *Volcano*, Lowry tells Cape, deals "with the forces in man which cause him to be terrified of himself."

Another letter, sent to his hospitalized mother in England, turns into a Stephen Leacock-like short story about his own hospital experiences in Canada.

The shortest one, sent to a friend when Lowry was in the depths of drunken despair in 1954, contains a single, chilling word: "Bang!"

His last letter was written just days before he died in 1957 of an alcohol and barbiturate overdose. Grace describes it as "a moving, painful, heartbroken letter, filled with memories of Dollarton and quotes from Wordsworth."

While the collected letters have been hailed as a triumph and established Grace as a world authority on Lowry, editing them took its toll. Grace spent two years transcribing Lowry's illegible handwritten scrawl, five years annotating and proofreading with her research assistants and three years putting the two volumes through the press.

Grace will be the keynote speaker at the 1997 Malcolm Lowry Symposium, an international celebration of the 50th anniversary of the publication of *Under the Volcano* at the University of Toronto in June.