

UBC REPORTS

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Martin Dee photo

Grimace And Bear It

Some strained, others giggled during the Health Sciences Student Association tug-of-war which attracted 11 teams to McInnes Field recently to raise funds for United Way. Landscape architects overpowered occupational therapists in the final.

UBC scores well in Maclean's survey

UBC has the best reputation of Canada's 15 major universities offering similar programs, according to Maclean's magazine. It is also listed first among what the publication calls "leaders of tomorrow."

"Our goal is to be a leading institution both in terms of teaching and research, so it's gratifying to know that others think of us in that light," said UBC President David Strangway, commenting on the magazine's third

annual universities edition.

The 1993 Maclean's survey divides 51 Canadian universities into three categories and rates them on 22 criteria including percentage of faculty members holding PhDs, class size and average grade of incoming students.

Among those with major doctoral programs and medical schools, UBC was listed fourth, as it was in 1992, after McGill University in top spot, Queen's University in second and the University of Toronto, third.

This year's findings also ranked UBC second behind McGill in the number of grants awarded in medicine and science and fourth in terms of humanities grants.

In the second category of 12 universities offering a broad program at the undergraduate and graduate level, Simon Fraser University finished first.

The first Maclean's survey in 1991 was criticized for comparing 46 universities, large and small, on the same terms. It also focused solely on undergraduate programs in the arts and sciences.

A letter to campus

During the past eight months, five anonymous letters have been received by a former UBC graduate student and a faculty member in the Dept. of Counselling Psychology.

These disturbing and, on occasion, threatening letters target specific issues within the department and attack what the author or authors call "the radical feminist viewpoint" in some of the department's classes.

First, let me say that this kind of attack on individuals or groups is abhorrent and will not be tolerated at UBC. These letters have created an atmosphere of fear and anxiety for the recipients and others on campus and have resulted in disruption of studies for many in the Dept. of Counselling Psychology.

The university has taken these letters seriously. Apart from an RCMP investigation, the administration launched an internal investigation several months ago to try to identify the writer or writers and to determine what is behind the letters. The investigators' report is expected to be submitted shortly.

We also submitted the letters to two forensic psychiatrists for an assessment of the risk attached to the correspondence. Their conclusion is that "the letters themselves do not form a basis for concluding that they were written by a person or persons with any

psychotic disorder or any other serious psychiatric condition."

While we can never minimize the seriousness of threats, I hope that the conclusions of two experts will help to ease at least some of the fear and discomfort that these letters have created.

Academic Vice-president Dan Birch and Faculty of Education Dean Nancy Sheehan met recently with students, faculty and staff in the Dept. of Counselling Psychology to discuss the letters and listen to the concerns of individuals in the department.

If we are able to identify the individual or individuals who are behind this deplorable campaign, let me assure you that they will be held accountable for their actions.

A university is a place where tolerance and a healthy exchange of views and ideas should be warmly embraced and supported. I whole-heartedly support feminist theory and feminist content as part of our curriculum and I strongly denounce the threats and intimidation which have occurred over the past few months.

This kind of activity has no place at UBC.

David W. Strangway
President

Molecular medicine

Centre targets genetics

by Connie Filletti

Staff writer

The provincial government will invest \$9 million to build UBC's new Centre for Molecular Medicine and Therapeutics.

Research activities at the centre, to be located adjacent to B.C.'s Children's Hospital, will focus on the genetic causes of heart disease, cancer, nervous system disorders and other illnesses with a genetic element.

"We know as many as 60 per cent of Canadians will at some time suffer from a disease with a genetic component," said UBC Medical Genetics Prof. Michael Hayden, who has been appointed head of the facility.

"By promoting new advances in genetic research in this centre, we will learn new ways to prevent and control disease. This centre will also provide a unique training environment and enhance interactions with industry."

The building project will be funded by Victoria's BC 21 initiative, a long-term economic strategy designed to create jobs and diversify economic activity for the 21st century.

Merck Frost Canada Inc., the country's largest pharmaceutical manufacturer, last year pledged \$15 million in operating funds over the next five years to establish the centre.

It is anticipated that UBC scientists working at the centre will match Merck's investment by raising \$15 million in research grants.

At a news conference Nov. 2 announcing details of the project, Premier Mike Harcourt hailed the collaboration as an excellent example of the public and private sectors working together for the benefit of all British Columbians.

"Our government is excited to be working in partnership with business and the health and academic communities to build the emerging health technology sector in B.C.," he said.

The research program of the centre will combine the scientific expertise of UBC, B.C.'s Children's Hospital and Merck Frost.

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Winning writer merits mention

Editor:

On page 3 of the October 14 edition of UBC Reports, an article headed "Offbeat" ends with the sentence: "There's at least one other UBC connection to the Vancouver International Writers Festival. . . . L. R. (Bunny) Wright spent a few months working for UBC

Reports in the mid-'80s."

There is yet another UBC connection to the festival.

Jocelyn Smith, a secretary in the History Dept., has won first and second prize in the B.C. Federation of Writers' Annual Literary Competition.

The prizes were awarded during the festival on October 22, 1993, on Granville Island.

This year's competition was

for creative non-fiction.

Jocelyn, who has been writing for about three years, won first prize for a piece called "Moscow Endnotes," and second prize for "Moscow Quartet."

I am pleased to write and tell you about these achievements of a member of this department.

Beryl Morphet
Administrative Assistant
History Dept.

Funding Research

B.C. Premier Mike Harcourt (centre), and Michael Tarnow (left), president of Merck Frosst Canada Inc., listen as UBC Medical Genetics Prof. Michael Hayden stresses the importance of funding basic research at a news conference announcing the province's pledge of \$9 million to build UBC's new Centre for Molecular Medicine and Therapeutics. Merck Frosst will provide \$15 million in operating funds for the centre.



Martin Dee photo

Video series to explore social pressures faced by teen girls

by Charles Ker

Staff writer

When boys get boisterous, sexually or otherwise, their behaviour is often passed off with the familiar refrain, "boys will be boys."

According to UBC graduate student Alissa Sacks, boisterous girls are more likely to get pegged as "deviant."

This false labelling comes as no surprise to Sacks who says there is little or no research dealing with the psychological development of teenage girls.

"There's a lot of information out there on boys and how they develop self-esteem but this can't be crossed over to girls," said Sacks, who holds a master's degree in educational psychology. "It seems that whatever boys are, girls, by default, are defined as the opposite."

For her doctoral thesis in the Faculty of Education, Sacks is examining the pressure that pop culture exerts on girls between

the ages of 13 and 18. In particular, she points to role playing by girls either trying to look like fashion models or relate to other women on television or in movies.

During the next year, Sacks, a student in the Dept. of Social and Educational Studies, hopes to film interviews with about 100 Canadian-born Vancouver teenagers from a variety of income groups. She hopes the resulting series of videos can be used in high school discussion groups dealing with issues of self-confidence, self-esteem, teen pregnancy, and sexual violence. As teens are now identified as the fastest growing HIV-positive population, the video should also prove helpful for AIDS education.

Together with UBC cinematography student Isabelle Rioux, Sacks has so far conducted interviews on the beach, at several private homes and over dinner at the White Spot restaurant. Discussions revolve around what magazines girls read, what their

favourite rock videos are and why, where they shop and with whom.

When talk turns to sex, Sacks points out that most of the girls she's talked to under 16 admit to not even liking it. They comply not for personal gratification, but for peer approval.

"They're sexually active because they see their body as their only valuable asset, a perception that's definitely reinforced in the media," said Sacks. "Even those involved in abusive relationships, who know that it's hurting their body and mind, just can't stop."

So too, girls who realize the impossibility of looking like a fashion model still spend time, energy and money trying to look like someone else.

In December, Sacks travels to Nanaimo to interview a group of 40 pregnant teens. She plans to ask if breaking the social norms of behaviour makes them feel liberated or more pressured to conform.

By collaborating with Dawn Currie, an associate professor of sociology, Sacks added that her project is truly interdisciplinary given that it involves input from three departments in two faculties.

Professor wins prize flight in UBC United Way draw


UBC's United Way campus campaign is past the three-quarter point and heading down the homestretch.

So far the campaign has received almost 1,300 pledges totalling more than \$230,000.

Campus campaign chair Chuck Slonecker says with the \$300,000 goal in sight, it's more important than ever for those who plan to make a donation to return their pledge cards at their earliest convenience.

"If you traditionally make an end-of-the-year donation to the United Way, you can still do that with a post-dated cheque," said Slonecker.

"That way, the campus cam-

 **Pledge cards are still available.**
Call 822-0515/822-2484

aign knows it can count on your donation."

Prof. Ron Hagler's donation has won him a free trip for two to anywhere Canadian Airlines flies. Hagler, from the School of Library and Archival Information Studies, is the winner of this year's United Way campus campaign grand prize, which was drawn November 5 at the Faculty Club.

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UBC
Multicultural

Liaison Office

Healthcare for the 21st Century:
Implications for Sociocultural Diversity

November 26, 8:00 am - 4:00 pm

University Golf Club

fee: \$90, student rate \$60

Morning sessions will address specific policy areas arising from sociocultural diversity, while the afternoon sessions will focus on local issues of delivery, training and resource allocation. The program features a mix of prominent researchers from outside the UBC community and from the Centre for Health Services and Policy Research. Lunch will be provided on-site.

For more information or to register, please call 822-4810/4969

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Oxford

Monday, November 22, 1993 from 2:30 to 4:00 PM

Frederic Wood Theatre

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UBC REPORTS

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Koerner library to open September '95

by Gavin Wilson

Staff writer

UBC's new library building will be named after Walter Koerner, a long-time benefactor of the university.

President David Strangway made the announcement at a site dedication ceremony held Nov. 4. The new library will be built on Main Mall in front of the Mathematics building.

Koerner is being honoured for "a lifetime of commitment and support" to the university, Strangway said.

The Walter C. Koerner Library is scheduled to open in September, 1995. It will incorporate Sedgewick Library to integrate graduate and undergraduate library research into one building.

The new building is the first phase of what will become the new Main Library on campus. The second phase will allow all remaining collections to be removed from the old Main Library, the core of which will then be restored as a heritage building. Third and fourth phases are also planned.

"The new library will help UBC meet the academic and research needs of the 21st century and enhance all levels of learning, teaching and research at the university," Strangway said.

Koerner was unable to attend the site dedication ceremony, but sent his appreciation in a letter to the president.

"The library was the part of the university that first attracted me when I came from Europe," Koerner said in his letter.

"Though my interests have ranged over several aspects of the university, I have always come back to my first love — the books."

Koerner and his family have contributed invaluable collections of art and books to the university over the years. He also served as chair of the Board of Governors from 1968 to 1972.

Koerner's past contributions to the library include special collections, such as the Pu-Pan Chinese collection, as well as the funds used to build the W.C. Koerner wing of the Main Library, which opened in 1960.

Some of Koerner's other major contributions to the university include assuring the construction of the Walter C. Koerner Acute Care Unit at University Hospital, and funding for health sciences research, academic programs, scholarships and fellowships.

Koerner was also largely responsible for convincing the federal government to fund construction of the Museum of Anthropology. Once the museum was built, it was filled with Koerner's extensive collection of native art.

He later gave the museum a major collection of European ceramics and the Raven sculpture by Haida artist Bill Reid.



Gavin Wilson photo

Admiring a model of UBC's new Walter C. Koerner Library are, from left, building architect Arthur Erickson, UBC President David Strangway and Walter Koerner's son, Nicholas Koerner.

UBC leads country in U.S. patents received

by Gavin Wilson

Staff writer

UBC researchers received more U.S. patents than any other Canadian university in 1992, the second year in a row the university topped the country in patent awards.

According to the American newsletter Intellectual Property Happenings, UBC researchers were awarded 17 U.S. patents in 1992. Among Canadian universities, McGill was second, with seven patents, followed by the University of Alberta, with five.

If UBC were ranked with U.S. universities, it would have placed 27th on the list of 139 universities receiving patents, ahead of such well-known institutions as Chicago, Yale and Princeton.

In total, North American universities

received 1,557 U.S. patents in 1992.

In 1991, UBC also topped the country by a wide margin with 22 patents issued.

"UBC is very fortunate to have such a creative faculty and student population who are so aware of the value of intellectual property to society," said James Murray, director of the University-Industry Liaison Office.

"The spinoff benefits of that creativity for the community — in terms of investment, jobs and other economic factors — are enormous," he said.

Part of UBC's success in obtaining patents has been attributed to the aggressive policies of the University-Industry Liaison Office, which acts to foster entrepreneurial activities and support economic diversification by transferring intellectual property to local companies.

Offbeat

by staff writers

A piece of music written by a teenaged Wolfgang Amadeus Mozart — who believed it would be played only once — is heard hundreds of times a day at UBC.

It's one of two pieces of music recorded on a tape loop and heard by campus telephone users when they are put on hold.

Having an ear for a mystery — and having been put on hold the odd time — Offbeat began to wonder about the origins of these lovely tunes.

The detective work started with a call to the Telecommunications Dept.

"We get many, many compliments on the choice of music; it seems to be popular," said communications assistant Kit Johnson. "There are very few people who dislike it."

Although unaware of the author or names of the compositions, Johnson believed the recording was made at the School of Music in the mid-1980s, when UBC's new telephone system was installed.

So Offbeat checked with the school's manager of communications, Dolya Konoval, who put us onto someone with the requisite sleuthing abilities — her son. Brandon Konoval is a doctoral candidate in piano performance at the School of Music and an instructor of a music appreciation course offered through UBC



Access, where he teaches a guided independent study course that combines the basics of musical form and structure with a survey of musical styles from the Baroque to the present day.

"As a musician, my gut instinct told me right away that it was Mozart," he said. But the piece was an obscure one he'd never heard before.

Konoval listened to determine the structure of the piece and recognized it as a simple sonata form, which told him that it was either from an early Mozart symphony or an overture to a dramatic work.

He scanned a catalogue of Mozart's themes in the School of Music library. He didn't find the piece's theme listed under Mozart's symphonies, so turned to the overtures.

And there it was, an overture to a "mini-opera" called *Ascanio in Alba* written in 1771 when Mozart was just 15.

It was intended for a single performance, to be played at a wedding in Milan between the Archduke Ferdinand of Lombardy and Princess Maria Ricciarda Beatrice of Modena.

Konoval said this type of mini-opera, called a serenata or festa teatrale, comes from the tradition of the intermezzo, originally a lighter opera played between acts of a more serious opera. In this case the serious opera, also commissioned specifically for the wedding, was by Hasse, a well-known composer of the day.

Not surprisingly, given Mozart's talent, his relatively modest serenata completely upstaged the older composer's more somber work.

Although initially amazed at the choice of such an obscure piece for a telephone tape, Konoval began to see the logic behind it.

"Being an overture it is a very dramatic and arresting piece of music. It's not too long or taxing on the listeners' concentration. Maybe Mozart himself wouldn't have minded it being used for this purpose . . . as long as he got the royalties for it."

There's still one unanswered musical question, however. What is the name of the wistful New Age piano piece callers also hear? If anyone can identify it, give Offbeat a call at 822-2130.

Would you mind holding?

Market reflects popular vote

by Abe Heffer

Staff writer

Traders on the UBC Election Stock Market did an uncanny job of predicting the final outcome of the popular vote in last month's federal election, according to stock market director Prof. Tom Ross.

And although they failed to predict the extent of the Liberal victory as it translated into House of Commons seats and the free fall experienced by the Progressive Conservatives, Ross says traders outpolled the pollsters on several fronts.

In the House of Commons market, the 256 traders, who invested more than \$30,000, predicted the Bloc Quebecois would come away with 53 seats while the Reform Party would win 49. The Bloc finished with 54 and Reform with 52.

The traders were less successful predicting the outcome for the other major parties. They predicted 148 seats for the Liberals, who won 177; 14 seats for the New Democrats, who won nine; and 29 seats for the Conservatives, who won two.

"The market failed to predict the magnitude of the Liberal sweep, but few people did," said Ross.

In the popular vote market, traders came within mere percentage points of predicting the outcome of the major party votes.

They predicted 41 per cent for the Liberals, who garnered 41.1 per cent of

the vote; 13.2 per cent for the Bloc Quebecois, who came away with 13.4 per cent; 18.7 per cent for the Reformers, who picked up 18.9 per cent of the vote; 16.5 per cent for the Conservatives, who finished with 16 per cent; and 8.8 per cent for the NDP, who finished with 6.9 per cent.

"We have a feeling this election was somewhat special in that the results surprised a lot of people," said Ross, a professor in the Faculty of Commerce and Business Administration.

"We think the market could do an even better job of predicting results. Having said that, I think our traders did amazingly well, certainly in the popular vote market. The market's tremendous media exposure enabled us to attract traders from across the country. The fact that it created so much interest was a pleasant surprise."

Ross says market organizers will begin to analyse the stock market data to help determine the predictive power of markets, the behaviour of traders and the dynamics of the political campaign. All the money invested will be paid out after the writs are returned.

"At that time, we'll be able to fully evaluate the value of people's portfolios," said Ross, who hopes to have the market up and running for the next B.C. provincial election, and perhaps the Quebec election.

Changing the face of forestry

The goal of the Faculty of Forestry is to teach students to become land managers who can successfully address the issues that affect the forest sector all over the world.

While that goal hasn't changed dramatically over the years, the rules have. An ever-shifting playing field has resulted in a faculty that is being governed by change.

"It's not change for change sake," points out Dean Clark Binkley. "It's a willingness on the part of faculty and staff to take the initiative to break down the barriers that have existed in the forestry program."

The undergraduate program has been the focus of much of that change. Recent initiatives such as the BSc in Natural Resources Conservation have strengthened the faculty's interdisciplinary approach to teaching and research, according to Binkley.

"Tom Sullivan, Peter Dooling, David Haley, Al Chambers, and others have teamed up to bring students an exciting program highlighted by Tom's work

with wildlife and Peter's expertise in parks' management. The program, in its third year, has been extremely well received."



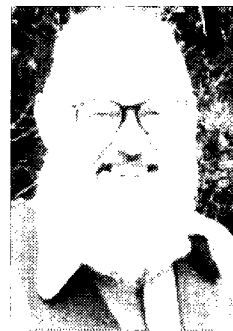
Binkley

Binkley also points to the work being done by Fred Bunnell and his research team at the faculty's Centre for Applied Conservation Biology, another recent initiative. "Forestry has emerged as one of the leading, research-intensive academic units on campus. Bunnell and his graduate colleagues are on the front of that research, offering the kind of knowledge necessary for a society that has bought into sustainable development and biodiversity."

Last year, the centre offered 16 workshops to forest practitioners across British Columbia.

"These people are part of the solution," Bunnell points out. "However, the extent of the problems faced in the area of forest management is still not fully known."

"We at the centre hope to come up with approaches that will maintain



Bunnell

both the biodiversity and the economic health of regions. We're not making decisions here, just getting the information out." Last month, Bunnell accepted a position as independent chair of the provincial government's Scientific Panel for Sustainable Forest Practices in Clayoquot Sound. It's another example of public outreach that Binkley has worked hard to foster in the faculty since becoming dean three years ago.

"The only way we can help address the real problems facing society is by being there and communicating scientific information to the public, whether it is in the form of symposia, newsletters, or annual reports," he said.

Binkley's immediate goal is to consolidate the faculty's efforts to ensure academic and outreach programs remain on stable footing in light of increasing academic demands, heightened public attention and declining budgets.

The total number of full-time equivalent students has gone from approximately 1,100 since 1990 to 1,700 today. In addition, there are 170 new students in the faculty this fall, up from a previous high of 100.

"Combined with record undergraduate enrolment, the increased demands on faculty and staff have been enormous. However, I am extremely fortunate to be working with people who have enthusiastically embraced the need for change," Binkley said.

Wood Science Department takes aim at quality

Wood Science Dept. Head Dave Barrett might want to consider hanging a sign on his office door that reads: Think Small.

It's a philosophy that has enabled Wood Science students to get a broad understanding of wood as a material.

"In order to think big in the forest industry, you first have to think small," said Barrett.

"In this department, we search for ways to increase the value of wood fibre and wood products across the board. The most effective way is to think incrementally."

Paul Steiner is among the department's faculty members currently getting back to research basics in order to address a bigger picture.

Steiner is making flake board one flake at a time in a painstaking procedure which may result in a higher-quality product produced at a lower price, while using less raw material.

By programming a mini robot, Steiner has been able to rearrange the structure of flake board by controlling the position of the wood flakes.

"We hope to find out if we can enhance the performance of the board and determine the relationship between the board's structure and its physical properties," he said.

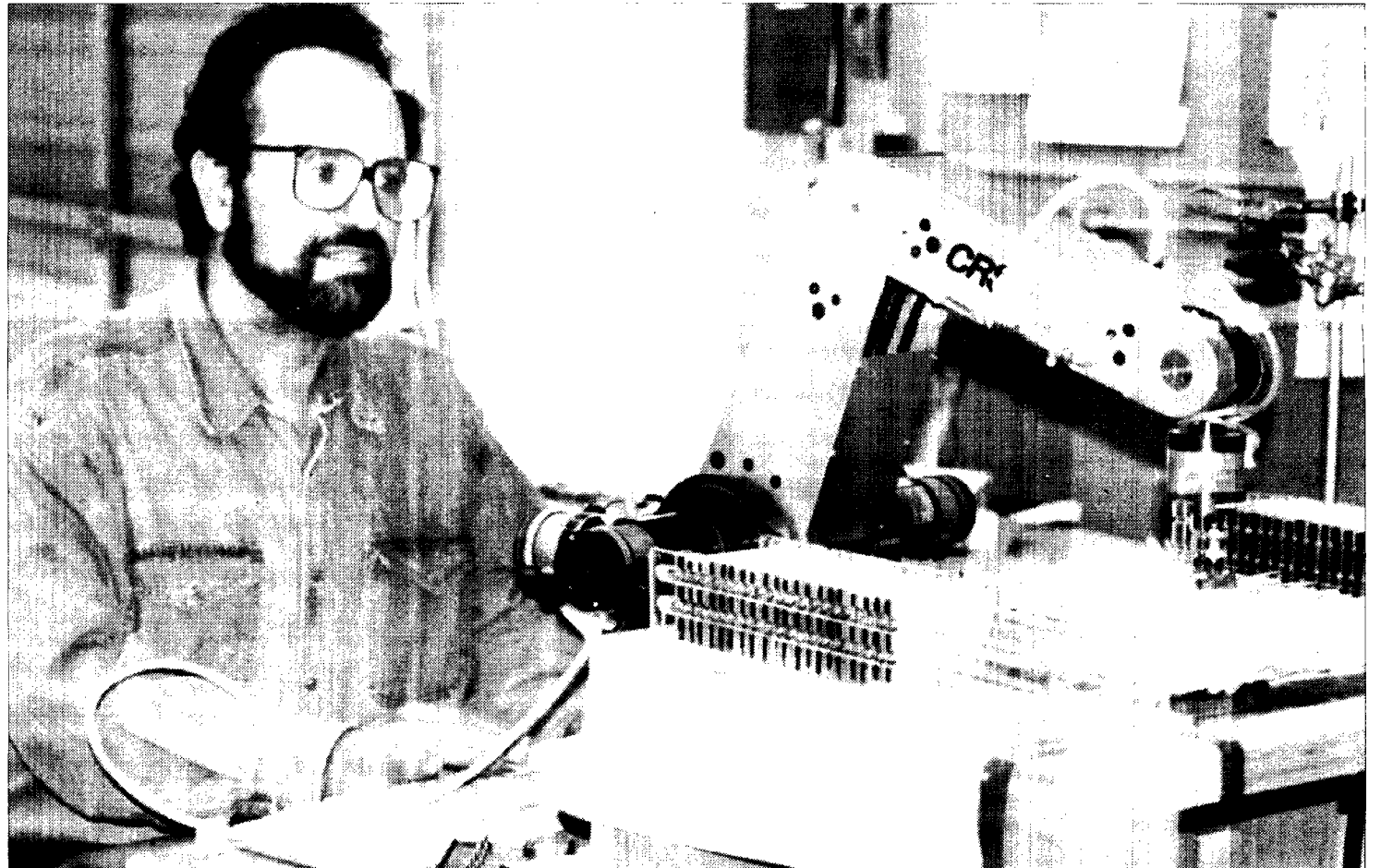
Barrett said Steiner's work is one way the department is taking a fundamental approach to understanding the nature of wood products.

"To my knowledge, there isn't anyone else in the world doing this kind of research on wood composite products," said Barrett.

The Wood Science Dept., one of a handful of its kind in Canada, tackles questions and issues associated with using wood as a material. Fundamental knowledge from the sciences, applied sciences, business management and marketing is integrated to enhance the processing, use, reuse, design and marketing of wood-based materials.

The program also includes fundamental research in wood preservation, wood chemistry and forest products biotechnology.

"There is a tremendous need to determine which technologies are needed to process wood products that meet the demands of industry and consumers," explained Barrett. "Thanks to our expanded capabilities in recent years, we've been able to introduce two new programs this term to



Abe Heffer photo

Prof. Paul Steiner's work with flake board is one way the Wood Science Dept. is taking a fundamental approach to understanding the nature of wood products.

train graduates for careers in forest products.

The undergraduate program builds on a strong fundamental science base and a broad education in wood as a material by offering three options.

The traditional business management option, which features a core commerce curriculum, has recently been supplemented by two additional options. They are the industrial processing technology option, which focuses on electrical engineering and computer science, and the science, engineering and biotechnology option, which allows students to specialize in one of a number of areas of science.

Students also take core courses in wood processing technology, composite product manufacturing, wood drying and preservation, and forest products marketing, among others.

Barrett says as the curriculum evolves, the department is taking a more active role with industry to make sure that graduates are prepared to meet the challenges in the marketplace.

"The knowledge our students bring to the workforce will help industry meet the demand to produce high quality commodity products and specialized value added products as it strives to broaden the range of wood products being produced from B.C. forests."

Barrett says the forest product marketing component is one example of how the department is meeting that need.

"The challenge is to identify markets and match our production capabilities to market needs," said Barrett.

"David Cohen is doing outstanding research in this unique and very important area and is one of only two or three people in North America doing so in an academic setting."

Cohen is currently sending out a survey to 5,000 structural engineers and architects across North America in an attempt to assess their perceptions of the environmental impact of a variety of building materials.

"We hope to compare their perceptions of the environmental impact of

material choices with the actual impact being examined in research underway at Forintek and the UBC School of Architecture," said Cohen.

Several other department members are working directly with industry to develop new processing strategies.

Tom Maness has developed production and process management tools to link resource inputs to mill orders to help mills optimize profit.

Stavros Avramidis is collaborating with industry to develop a new radio frequency vacuum-drying technology which would dry large timbers in 24 hours with no degrade.

These collaborative efforts are just some of the examples of the interdisciplinary work being done with other academic units on campus.

"We aren't working alone," said Barrett. "The department has and will continue to link up with other departments on campus, research institutes, and industry to bring our expertise to bear on the challenges facing the forest industry."

New forestry programs prompt surge in enrolment

Demand for graduates remains high

There's a different look to the Faculty of Forestry these days and it's due to the students who call the MacMillan Building their academic home.

As the faculty's co-ordinator of student services, Donna Goss, a UBC forestry graduate, is on the front lines of daily student life. What strikes her is the evolving nature of the student body in recent years.

"I have noticed quite a change in the undergraduate population over the past five years," said Goss.

"The students, regardless of their program of study, reflect a much broader cross-section of society than previously. They offer many more perspectives which contributes positively to the overall undergraduate programs."

Forestry Dean Clark Binkley says the wide range of students attracted to the faculty bring with them viewpoints shared by a society attempting to come to grips with the issues surrounding the management of forest resources.

"We want these students to be able to come to deal with these issues in a highly concentrated form at UBC before they go out to work. We have made a lot of progress in that regard."

Binkley points to the BSc program in



Third-year forestry student Indra Lalari extracts a core sample to determine the age of a tree in field work at the Alex Fraser Research Forest.

Natural Resources Conservation, which has drawn students from across the country, as one reason for increased interest in the faculty. Focussing on parks and wildlife management, the program's enrolment has exceeded

expectations and helps explain why the undergraduate enrolment numbers are at an all-time faculty high at 408, up from 333 last year.

"First-year enrolment of women stands at 38 per cent, which is prob-

ably also an all-time high." Binkley pointed out. "Almost 30 per cent of forestry students are women, up from just over 20 per cent last year."

Another reason for the rising enrolment figures stems from a decision last year to allow technical school graduates to enter directly into a three-year degree program in Forest Resources Management. Prior to that, they had to negotiate for course exemptions on a one-to-one basis.

Forestry students are taking their increased overall awareness and interest in forestry issues into the work force at an increasing rate. Since the mid 1980s, surveys done by the faculty indicate an 80 per cent employment success rate which increased to 90 per cent this year. Last year, 77 per cent of those who responded to a faculty survey indicated they found work immediately upon graduation, up from 40 per cent in 1985.

"There is still a strong demand for foresters and experts in forest resources management, and these employment figures bear that out," explained Goss, who is also responsible for student placement.

Most of these jobs are in industry, government and consulting and UBC forestry students tend to stay in B.C. upon graduation.

Critical to the job prospects for these students is the availability of summer employment during their stay at UBC. Without it, students have a hard time finding work upon graduation, according to Goss.

"Survey results through the summer of 1993 indicate that 74 per cent of students who responded received summertime employment during their undergraduate years. The more experience these students receive year after year, the more marketable they become."

The faculty has intensified its efforts to help students find jobs on several fronts. Last year, it instituted a careers evening, which gave students, alumni and other professionals a chance to meet and share information in an informal setting. The evening attracted more than 200 people and is expected to be offered on an ongoing basis.

In addition, the office of student services offers job placement services to help in the recruitment procedure by matching industry needs with student skills. Students are able to obtain assistance on a one-to-one basis in resume writing and interview preparation.

"Although job prospects for foresters have brightened, we see some significant challenges ahead," said Binkley.

"We need to ensure that this year's good performance in job placement continues. We need to diversify the employment base for UBC forestry graduates, and we must continue to place first- and second-year students in meaningful, forestry-related summer jobs."

International outlook provides opportunities to share ideas

As a developed country, Canada has a moral obligation to play an active role in promoting good stewardship of the world's forests, according to the director of International Programs in the Faculty of Forestry.

As a result, says Prof. Andrew Howard, the faculty must be involved internationally in order for it to serve this province, and this country, effectively.

"The future success of B.C.'s forests is inextricably tied to the international marketplace for both products and ideas," said Howard.

"International concerns for sustainability and environmental protection increasingly influence B.C.'s management of forests for both timber and non-timber uses."

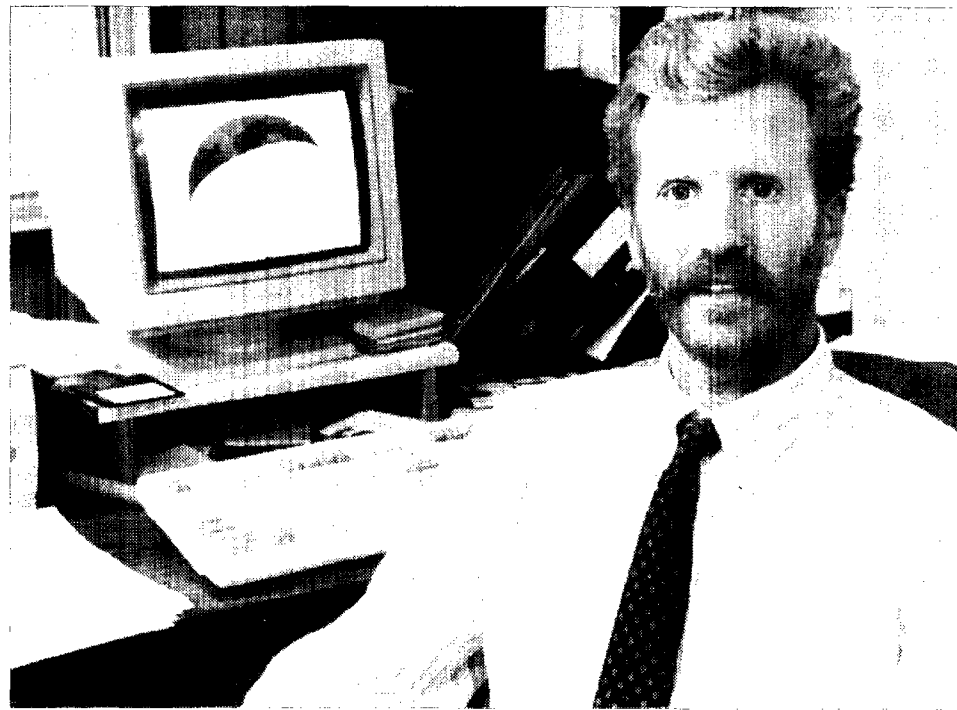
As the newly appointed director of International Programs, Howard has been given the task of formulating a game plan to expand the faculty's international efforts.

"One of the goals of this office is to complement the excellent project work currently being done, and provide opportunities for all faculty to engage in international research," said Howard.

Prior to 1990, the faculty's international activities were limited to the training of foreign graduate students in addition to the involvement of individual faculty members in various countries outside of Canada.

In 1990, under the leadership of Don Munro, director of the Malcolm Knapp Research Forest, the faculty established its international forestry program and since then has completed several projects overseas as part of an initial thrust into the international arena.

Prof. Peter Dooling worked in Thailand to help design a new curriculum in parks management for the Association of Southeast Asian Nations Institute of Technology. Howard himself travelled to Central



Abe Hefter photo

Prof. Andrew Howard is the newly appointed director of International Programs in the Faculty of Forestry.

America to work with the Institute of Technology of Costa Rica to investigate alternative timber harvesting methods in tropical rain forests.

"With Don Munro laying the groundwork in this new initiative, and this type of experience in hand, now is the time to examine the direction and content of our international forestry program," said Howard.

With the research component firmly in place, Howard, working with the faculty's international forestry subcommittee, has identified two other areas which are crucial to success internationally: teaching and service.

"We hope to be able to provide more opportunities for graduate students from overseas at UBC," he said.

"International students are anxious to share in our knowledge of forestry issues. We'll try to facilitate that by increasing the applicant pool while

maintaining our high academic standards."

At the same time, Howard hopes to give undergraduate students at UBC an opportunity to take advantage of tremendous job opportunities abroad. He would like to establish an internship program which would include educational and practical work experience.

"Learning is a two-way street for students abroad and at UBC," said Howard.

The service component of international programs would include all non-scholarly activities, where forestry faculty would offer their expertise by serving on various academic boards and committees.

"The long-term objective of this faculty is to establish a Centre for International Forestry at UBC within three to five years," said Howard.



**Stories by
Abe Hefter
Staff writer**

Calendar

November 14 through November 27

Monday, Nov. 15

Plant Science Seminar

Acetone And Butanol: Regulation Of Secondary Metabolism In Clostridium Acetobutylicum. Daniel Petersen, postdoctoral fellow, Plant Science. MacMillan 318D at 12:30pm. Refreshments. Call 822-9646.

Anthropology/Sociology Seminar

Immigration And Assimilation: Lessons From The U.S. Dr. Vincent Parillo, Sociology, William Paterson College, NJ. Buchanan Penthouse at 1:30pm. Call 822-3670.

Mechanical Engineering Seminar

Refined Turbulence Measurements Using Laser Doppler Anemometry. Prof. Cameron Tropea, Universitat Eriangen-Nuremberg. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6671.

Biochemistry/Molecular Biology Seminar

Control Of The Cell Cycle By Calmodulin-Dependent Protein Kinase II: Dual Regulation Of G2/M Transition. Dr. Colin Rasmussen, Anatomy/Cell Biology, U. of Alberta. IRC #4 at 3:45pm. Refreshments at 3:30pm. Call 822-5925.

Geophysics/Astronomy Seminar

The Environment Of Lyman α Absorbers In The Sightline To 3C273. Simon Morris, Dominion Astrophysical Observatory. Geophysics/Astronomy 260 at 4pm. Refreshments at 3:30pm. Call 822-2696/2267.

Tuesday, Nov. 16

Centre For Chinese Research Seminar

Ji Hu: Indigenous Inhabitants Of Shaanbei And Western Shanxi In The Fifth To Seventh Centuries A.D. Prof. Emeritus Edwin G. Pulleyblank, Asian Studies. Asian Centre 604 from 12:00-2pm. Call 822-2547.

Pharmaceutical Sciences Seminars

Dissolution Of Solid Dispersions Of Triamterene Or Temazepam In Polyethylene Glycols From Liquid-Filled Hard Gelatin Capsules. Stephen Dordunoo, postdoctoral fellow, Pharmaceuticals. IRC #3 from 12:30-1:30pm. Call 822-4645.

New Calcium Channel Blockers. Renette Dunn, PharmD student. Family/Nutritional Sciences 30 from 4-5pm. Call 822-4645.

Lectures In Modern Chemistry

Chemical Analysis Systems On A Chip. Dr. Jed Harrison, U. of Alberta. Chemistry 250 south wing at 1pm. Refreshments at 12:40pm. Call 822-3266.

Oceanography Seminar

Ocean Particle Chemistry: The Fractionation Of Rare Earth Elements (REEs) Between Suspended Particles And Seawater. E. Sholkovitz, Woods Hole Oceanographic Institution, Woods Hole, Mass. BioSciences 1465 at 3:30pm. Call 822-3626.

Microbiology Immunology Seminar Series

Structure And Interaction Of Glycoproteins At The Surface Of Leukocytes. Dr. Neil Barclay, MRC Cellular Immunology Unit, Oxford, UK. BRC Seminar Room at 4pm. Call 822-5995.

Statistics Seminar

On The Efficiency Of Non-Parametric Tests For Comparing Two Groups Based On Changes In An Ordered Categorical Response Variable. Dr. Piotr Bajorski, SFU. Angus 413 from 4-5:30pm. Refreshments. Call 822-2234.

Wednesday, Nov. 17

Orthopaedics Grand Rounds

Impingement Syndrome Of The Shoulder. Dr. J.P. McConkey, chair. Eye Care Centre Auditorium at 7am. Call 875-4272.

Wednesday Noon Hour Series

Charles Foreman, piano. Music Recital Hall at 12:30pm. Admission \$2. Call 822-5574.

Asian Research Institute Lecture

Japan's Role In The International World. Prof. Jiro Yamaguchi, U. of Hokkaido. Asian Centre Auditorium from 12:30-1:30pm. Call 822-2629.

Microbiology Seminar

Neuron Specific Calcium Binding Proteins. Dr. Ken Baimbridge, Physiology. Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

Applied Mathematics Colloquium

Asymptotic Behaviour Of Solutions Of Boltzmann Equations With Boundary Conditions. Richard Illner, Mathematics, U. Vic. Mathematics 203 at 3:30pm. Call 822-4584.

Geography Colloquium Series

After The Soviet Union: Geography And Transition. Michael Bradshaw, U. of Birmingham. Geography 201 from 3:30-5pm. Refreshments at 3:25pm. Call 822-5612.

Faculty of Forestry Burgess-Lane Memorial Lecture

Exigencies In U.S. Forest Products Research. Dr. Kent Kirk, dir., Institute of Microbial/Biochemical Technology and USDA prof. in Bacteriology, U. of Wisconsin-Madison. MacMillan 166 from 4:30-6pm. Faculty Club reception follows. Call 822-5303.

Radiology Grand Rounds

A Walk Through The Cavernous Sinus. Dr. Jocelyne Lapointe, Radiology, University Hospital, St. Paul's Site. Eye Care Auditorium from 5-6pm. Call 631-5026.

Thursday, Nov. 18

UBC Board Of Governors Meeting

Held in the board room, second floor of the Old Administration Building, 6328 Memorial Rd. The open session begins at 9am. Call 822-3131.

UBC Orientation For New And Existing Staff

Coordinated by Organization Training/Development, Human Resources. Meet key people across campus and win prizes. Cecil Green Park Yorkeen Room from 9-12pm. Call 822-9644.

Sustainable Development Research Inst. Seminar

The Multi-Stakeholder Process: Canada's Round Tables. Ann Dale, senior associate. Hut B5, 2202 Main Mall at 12:30pm. Call 822-8198.

President's Lectures In Philosophy

Hewitt Bostock Memorial Lectures. The Overactive Subject: Cognition, Error And The Productive Imagination. Dr. Catherine Wilson, Philosophy, U. of Alberta. Buchanan A-100 at 12:30pm. Call 822-3292.

Earth And Ocean Sciences Seminar

Geosphere-Troposphere Interactions Of Methane/Experimental Data: Who Needs It? Michael Whitticar, School for Earth and Ocean Sciences, U. Vic. GeoSciences 330A at 12:30pm. Pizza/discussion to follow. Call 822-9258/2496.

Was Mechanism The Dominant Philosophy Of The 17th Century? Dr. Catherine Wilson, U. of Alberta. Buchanan Penthouse at 4pm. Call 822-3292.

Physics Colloquium

Binary Pulsar, Gravitational Waves. J. Taylor, Princeton U. Hennings 201 at 4pm. Call 822-3853.

CICSR Distinguished Lecture Series

Ubiquitous Computing. Mark Weiser, Xeros Palo Alto Research Centre. CICSR/CS 208 at 4pm. Call 822-6894.

International Teaching Assistant Training Program

Sponsored by UBC Continuing Studies (MLO). Section 2: Thursdays, Nov. 18-Dec. 2 from 6-9pm in the Old Auditorium Annex 221. Call 822-5798.

Friday, Nov. 19

Obstetrics/Gynaecology Grand Rounds

The Role Of GnRH Analogs In The Gynaecologic Surgery. Dr. Rodolphe Maheux, Laval U., Que. University Hospital, Shaughnessy Site D308 at 8am. Call 875-3266.

Paediatrics Grand Rounds

The Molecular Genetics Of The Ewing's Sarcoma Family Of Childhood: Neuroectodermal Tumors. Dr. Poul Sorensen. G.F. Strong Auditorium at 9am. Call 875-2118.

Health Care/Epidemiology Grand Rounds

STD Control And STD Guideline Development. Dr. William Bowie, Infectious Diseases, Medicine. James Mather 253 from 9-10am. All welcome. Call 822-2772.

President's Advisory Committee On Lectures Fine Arts Seminar

Moving Pictures: Cinema, Photography, Painting, Graphic Arts. Prof. Anne Hollander, fellow of Institute for Humanities, New York U. Lasserre 102 from 11:30am-1:30pm. Call 822-2757.

Koerner Lecture

Teachers' And Students' Notes In 12th And 13th Century Manuscripts. Charles Burnett, Warburg Inst., U. of London. Lasserre 104 at 12:30pm. Call 822-5938.

World University Services Of Canada Speaker Series

Cote d'Ivoire. Karen Rolston, Buchanan A-205 at 12:30pm. Call 822-2485.

Public Lecture

Biodiversity: What Is It? Dr. Gray Merriam, Environmental Science, Carleton U. MacMillan 166 from 12:30-1:30. Call 822-5724.

Medieval Studies 23rd Annual Workshop

The University In The Middle Ages. 15 speakers from Canada, USA and Europe. Lasserre 102 Friday from 12:30-5:30pm. Continues Saturday from 9:30am-5pm. Registration req'd. Call 822-5938.

Occupational Hygiene Program Seminar

New Exposure Limits In British Columbia. Candace Mayes, occupational hygienist, WCB. Civil/Mechanical Engineering 1202 from 12:30-1:30pm. Call 822-9595.

Law Seminar

Human Rights Reform In British Columbia. Prof. Bill Black, Law, Curtis Conference Room 149 from 12:30-2pm. Call 822-3403.

Chemical Engineering Seminar

The Present Status Of Electric Double Layer Theory. Samuel Levine, honorary professor, Chemical Engineering. Chem-Engineering 206 at 3:30pm. Call 822-3238.

Theoretical Chemistry Seminars

Kinetic Theory Models Of Incoherent Scatter Radar Spectra Of The Terrestrial Ionosphere. G. Arkos, Chemistry. Chemistry 402 central wing at 4pm. Call 822-3997.

Women's Studies Panel Discussion

Poverty At UBC. Open to the public. Grad Student Centre from 4-5pm. Call 822-9171.

President's Lecture Series In Lesbian And Gay Studies

The Significance Of Lesbian And Gay Studies For Transforming Education. Deborah Britzman, York U. SFU Diamond Club from 4:30-6pm. Call 291-3395.

UBC Symphony Orchestra Concert

Jesse Read, conductor; Wendy Hatala, soprano soloist. Old Auditorium, 6328 Memorial Rd., at 8pm. Call 822-3113.

Saturday, Nov. 20

President's Lecture In Fine Arts

Fashion In Art. Prof. Anne Hollander, fellow of Institute for Humanities, New York U. IRC #6 at 8pm. Call 822-2757.

Vancouver Institute Lecture

The United Nations In Peace And War. Sir Crispin Tickell, warden, Green College, Oxford U. Woodward IRC #2 at 8:15pm. Call 822-5675.

Monday, Nov. 22

President's Lecture On The Environment

GAIA: Goddess Or Thermostat? Sir Crispin Tickell, warden, Green College, Oxford. Geography 200 at 12:30pm. Call 822-5675.

Plant Science Seminar

Rooting Out Disease Problems In Greenhouse Vegetables. Dr. Jim Menzies, Agriculture Canada, Agassiz Research Station. MacMillan 318D at 12:30pm. Refreshments. Call 822-9646.

Green College Symposium

Graduate College Communities. Dr. Ann Saddlemeyer, master of Massey College; Dr. Alexander Clark, executive director Green Centre for Science and Society, U. of Texas at Dallas; Sir Crispin Tickell, warden of Green College, Oxford. Frederic Wood Theatre from 2:30-4pm. Call 822-8660.

TAG Seminar For Faculty

Positive Grading Practices. Clarissa Green, School of Nursing. Social Work 223 from 3-5pm. Call 822-9149.

Applied Mathematics Colloquium

Stratified Flow Over An Obstacle: Nonlinear Wave Interactions In Lee Wave Field. Dr. Kevin Lamb, Physics, Memorial U., St. John's. Mathematics 203 at 3:30pm. Call 822-4584.

Mechanical Engineering Seminar

Monitoring Of Dynamic Stability. Ercan Kose, Ph.D. student. Civil/Mechanical Engineering 1202 from 3:30pm-4:30pm. Refreshments. Call 822-6671.

Biochem/Molecular Biology Seminar

Genetic Analysis Of Ras Oncogene Function. James C. Stone. IRC #4 at 3:45pm. Refreshments at 3:30pm. Call 822-5925.

Astronomy Seminar

New Developments In Stellar Semiconvection. Bill Merryfield, U. Vic. Geophysics 260 at 4pm. Refreshments from 3:30pm. Call 822-2696/2267.

Tuesday, Nov. 23

Multimedia Conference/ Vendor Exposition

Continues on Wednesday. Exploring Multimedia Solutions In

UBC REPORTS

CALENDAR DEADLINES

Calendar items must be submitted on forms available from the UBC Community Relations Office, 207-6328 Memorial Road, Vancouver, B.C. V6T 1Z2. Phone: 822-3131. Fax: 822-2684. Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space. Deadline for the November 25 issue of UBC Reports — which covers the period November 28 to December 11 — is noon, November 16.

Calendar

November 14 through November 27

Education And Business. Grad Student Centre at 8:30am. Conf. registration \$250; Vendor Exposition \$10. Call 222-5351.

Women's Studies Lecture Series

Pioneer Stories: Exploring The Politics Of Representation In The Western Development Museum. Dr. Lynne Bell, U. of Saskatchewan. Buchanan B212 at 12:30pm. Call 822-9171.

Museum Of Anthropology Shop Feature

Evolving Traditions. Begins Nov. 23 through Nov. 28. Sale of works by First Nations female artists of the Northwest Coast. Lobby, weekdays 11am-4pm. Sat/Sun, 12:30-2:30pm. Artists demonstrations from 12:30-2pm. Call 822-5087.

Pharmaceutical Sciences Seminars

Health Effects Of Air Pollution. Dr. David Bates, professor emeritus, Medicine. IRC #3 from 12:30-1:30pm. Call 822-4645.

Newer Anticoagulants: The Clot Thickens. Fawziah Lalji, Ph.D. student, Pharmaceutical Sciences. Family/Nutritional Sciences 30 from 4-5pm. Call 822-4645.

BioSciences Seminar

JGOFS Equatorial Pacific Study: Overview And Preliminary Results. Dr. James Murray, School of Oceanography, U. of Washington. BioSciences 1465 at 3:30pm. Call 822-3626.

Medical Genetics Seminar

The Impact Of Endogenous Retrovirus-Like Sequences On The Human Genome. Nancy Goodchild, Ph.D. student, Wesbrook 201 from 4:30-5:30pm. Refreshments at 4:20pm. Call 822-5312.

Botany Seminar

The Scent of Clarkia Flowers: From Ecology To Molecular Biology. Dr. Eran Pichersky, Biology, U. of Michigan. BioSciences 2000 from 12:30-1:30pm. Call 822-2131.

Wednesday, Nov. 24

Orthopaedics Grand Rounds

Current Trends In Arthroplasty Of The Hand And Wrist. Dr. John O'Connell, Pathology. Eye Care Centre auditorium at 7am. Call 875-4646.

UBC Bookstore Special Events

Customer Appreciation Day 1993. Come enjoy some Christmas cheer; complimentary refreshments/treats; prize draws and complimentary gift wrapping service. UBC campus Bookstore and Health Sciences Bookshop at 2750 Heather St. from 8:30am-8:30pm. Call 822-2665.

Origami Folding Demonstration

Come and learn the beauty of folding. Joseph Wu, origami enthusiast, will be giving a seminar. UBC Bookstore at 12:30pm. Call 822-2665.

Wednesday Noon Hour Concert Series

The Hammerhead Consort. Music Recital Hall at 12:30pm. Admission \$2. Call 822-5574.

History Lecture

Issue And Representation:

The National Gallery's Purchase Of Barnett Newman's Voice Of Fire. John O'Brien, Fine Arts. Sponsored by Major Program In Canadian Studies. Buchanan B212 at 12:30pm. Call 822-5193.

Microbiology Seminar

High Level Expression Of Complex Human Plasma Proteins. Dr. Ross MacGillivray, Biochemistry. Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

Centre For Japanese Research Seminar

Rengos New Political Force: The Labor Movement And Political Realignment In Japan. Lonny Carlile, Political Science. Asian Centre 604 at 12:30-1:45pm. Call 822-5612.

Biochem/Molecular Biology Seminar

Solution Structures Of DNA-Binding Domain Of c-myc Protooncogene Product And Of Its Complex With A Specific DNA: Repeated HTH Variants Wrap Around DNA. Dr. Yoshifumi Nishimura, Integrated Science Graduate School, Yokohama. IRC #5 at 3:45pm. Call 822-5925.

Geophysics/Astronomy Seminar

Upper Mantle Structure Of The Cascadia Subduction Zone Below B.C. Geophysics 260 at 4pm. Refreshments at 3:45pm. Call 822-3466/2267.

Interdisciplinary 19th Century Studies Colloquium Series

Theatre And Fashion, etc., etc. Speakers: Joel Kaplan, English; Sheila Stowell, Theatre, U.Vic. with Sima Godfrey, French. Responding: Patricia Merivale, English. Faculty Club Music Room at 7:30pm. Call 822-4225/5122.

Thursday, Nov. 25

Sixth Annual Health Services Policy Conference

The Effects Of Socio-Cultural Environment On Health And Implications Of Socio-Cultural Diversity For Health Policy. Seven speakers to include three UBC faculty and four international educators. University Golf Club from 8:30am-4pm. Registration req'd. \$90, students \$60. Call 822-4969.

UBC International Forum

AIDS In Africa. Dennis Willms, Clinical Epidemiology/Biostatistics, McMaster U. IRC #6 at 12:30pm. Call 822-9546.

Physics Colloquium

The Stern-Gerlach Experiment And Nuclear Magnetic Resonance. Dr. M. Bloom, Physics. Hennings 201 at 4pm. Call 822-3853.

Orthopaedics Evening Conference

Five topics will be presented with a 9pm break for coffee. G-279 (ground floor lecture theatre near cafeteria). University Hospital, UBC site from 8-10pm. Call 875-4677.

Friday, Nov. 26

Obstetrics/Gynaecology Grand Rounds

The Molly Towell Lectureship In Perinatology: Some Ideas On The Effect Of The Fetal Environment On Fetal Function And Development. Dr. Peter W. Nathanielsz, Cornell U., NY. University Hospital, Shaughnessy Site D308 at 8am. Call 875-3266.

Health Services Research Conference

Healthcare For The 21st Century: Implications For Sociocultural Diversity. University Golf Club from 8am-4pm. \$90, students \$60. Call 522-4510/4969

Music Concert

UBC Contemporary Players. Stephen Chatman/Andrew Dawes, directors. Music Recital Hall at 12:30pm. Call 822-3113.

Occupational Hygiene Program Seminar

Language Breakdowns Affect Safety In The Workplace. Cristel Nierobisch/Tanis Sawkins, head/instructor, VCC. Civil/Mechanical Engineering 1202 from 12:30-1:30pm. Call 822-9595.

Law Seminar

Court Orders And Criminal

Contempt. Mr. Justice Kenneth Lysyk. Curtis Faculty Conference Room 149 from 12:30-2pm. Call 822-3403.

Royal Society of Canada Women In Scholarship Lecture

Racism And Inequality In Canada. Dr. Frances Henry, Anthropology, York U. Buchanan A-104 from 12:30-2pm. Call 822-9121.

Chemical Engineering Seminar

A Model Of The Initial Chemical Reaction Fouling Rate For Flow Within A Heated Tube, And Its Verification. Dr. Norman Epstein, honorary professor, Chemical Engineering, ChemEngineering 206 at 3:30pm. Call 822-3238.

Theoretical Chemistry Seminar

Dynamics Of Molecular Liq-

uids. A. Chandra. Chemistry 402 central wing at 4pm. Call 822-3997.

Saturday, Nov. 27

President's Lecture Series In Lesbian And Gay Studies

Isaac Julien Representation: Race/Post-Colonialism In Cultural Production. Two films. Pacific Cinematheque, 1131 Howe St., Vancouver from 7-9pm. Call 822-5358.

Vancouver Institute Lecture

Researching The Earth: Living It, Loving It, Sharing It. Prof. Susan Kieffer, UBC Geological Sciences. IRC #2 at 8:15pm. Call 822-3131.

Notices

Student Housing

The off-campus housing listing service offered by the UBC Housing Office has been discontinued. A new service offered by the AMS has been established to provide a housing listing service for both students and landlords. This new service utilizes a computer voice messaging system. Students call 822-9844, landlords call 822-9847.

Campus Tours

School and College Liaison tours provide prospective UBC students with an overview of campus activities/facilities/services. Every Friday at 9:30am. Reservations required one week in advance. Call 822-4319.

Disability Resource Centre

The centre provides consultation and information for faculty members with students with disabilities. Guidebooks/services for students and faculty available. Call 822-5844.

Trade Show

AMS Annual Christmas Gift Fair. Open to the public with different vendors each week. Student Union Building main concourse beginning Nov. 22-Dec. 3 from 9-5pm. Call 822-3465.

Dorothy Somerset Studio

Leonce And Lena by Georg Buchner, directed by Richard Wolfe. Nov. 17-20 and Nov. 24-27. Preview Tuesday, Nov. 16. Two for \$7. Call 822-2678.

UBC Bookstore

Open Mon/Tue/Thur. and Fri. 8:30am-5pm; Wed., 8:30am-8:30pm; Sat., 9:30am-5pm. Call 822-2665/4749.

Research In Women's Studies Weekend Conference

Poverty: Feminist Perspectives. Co-sponsored by Social Work. Nov. 18-20. Workshops, papers, panels. Registration req'd. Call 822-9171.

English Language Institute

Professional development for language teachers. Continuing classes through November. Call 222-5208 to register/ receive a brochure.

Free Hearing Assessments

Now through December 17. Open to all UBC students/staff/faculty. Sponsored by the UBC Hearing Access Project. By appointment. Call 822-5798.

Women Students' Office

Advocacy/personal counselling services available. Call 822-2415.

Fine Arts Gallery

Knowledgeable Bodies/Recent Acquisitions. Works from UBC Art Collection. Main Library basement. Tue.-Fri. 10am-5pm/ Sat. 12-5pm. Call 822-2759.

Male Experience Research Project

Are contemporary ideas about men's lives truths or stereotypes? Counselling psychology student is looking for volunteers to take part in this study. If you're straight, white, 25-35, and interested in sharing your story, call Lawrence at 822-5259.

Clinical Trials in Dermatology

Athlete's Foot Study requires volunteers aged 18-65 yrs. Must be able to attend 6 visits over 6 weeks. Lab tests required.

Study on Acne Gels

Aged over 16 yrs. with bad acne and not currently under a physician's care. 5 visits over 2-month period.

Psoriasis Studies

Aged over 18 yrs. and not currently under a physician's care. 5-10 visits over a 2-month period. Division of Dermatology, VGH, 855 West 10th Ave. Call 875-5296.

Sexual Harassment Office

Advisors are available to discuss questions or concerns and are prepared to help any member of the UBC community who is being sexually harassed find a satisfactory resolution. Call Margaretha Hoek at 822-6353.

Psychology Study

Looking for female heterosexual volunteers who are experiencing sexual difficulties to participate in confidential research on physiological sexual arousal. Honorarium. Mon-Thu 4-6pm. Call 822-2998.

Insomnia Study

Medication treatment for volunteers with difficulty falling asleep or with frequent nighttime awakenings. Involves overnight sleep studies. No shift workers. UBC Sleep Disorders Clinic. Call Ms. Wood Mon-Thu. at 822-7927.

Psychology Study In Parenting

Couples with a 5-11 yr. old son are wanted for a study on parenting style. Families will be paid for participating. UBC Parenting Lab. Call 822-9037.

Clinical Research Support Group

Faculty of Medicine data analysts supporting clinical research. To arrange a consultation, call Laurel at 822-4530.

Drug Inter-Action Study

Volunteers at least 18 years required for participation in Pharmacology/Therapeutics Study. Eligibility screening by appointment. Honorarium upon completion of study. Call 822-4270.

Statistical Consulting/ Research Laboratory

SCARL is operated by the Dept. of Statistics to provide statistical advice to faculty/graduate students working on research problems. Call 822-4037.

Surplus Equipment Recycling Facility (SERF)

Disposal of all surplus items. Every Wednesday, 12-5pm. Task Force Bldg., 2352 Health Sciences Mall. Call Vince at 822-2582/Rich at 822-2813.

Badminton Club

Faculty/Staff are welcome to join in the fun at the Robert Osborne Centre-Gym A, on Fridays now through Mar/94 from 6:30-8:30pm. Cost is \$15, plus library card. Call John at 822-6933.

Nitobe Garden

Open weekdays only from 10am-3pm. Call 822-6038.

Nehru Humanitarian Awards Presentation

Cultural Performance and refreshments. Sunday, Nov. 14, 7:30-9:30pm. Asian Studies Bldg. Auditorium. Call 822-3846.

Notice of Closure

The bicycle path/sidewalk on Northwest Marine Drive from Chancellor Boulevard to Spanish Banks beach will be closed from Nov. 12 to Jan. 1.

For more information, contact Kathleen Laird-Burns at Campus Planning and Development. 822-8228.



THE UNIVERSITY OF BRITISH COLUMBIA

WASTE REDUCTION PROGRAM

1992/93 ANNUAL REPORT

The following is a condensed version of the first annual report on the activities and performance of the U.B.C. Waste Reduction Program. This document is intended to provide a summary of the program for the benefit of interested students, faculty, staff, and residents of the University of British Columbia, as well as for interested members of the public community which the University serves.

BACKGROUND

In November 1990 the President's Task Force (on Waste Reduction, Reuse, & Recycling) retained the consulting firm Resource Integration Systems Ltd. to conduct an audit of the University waste stream and to recommend waste reduction opportunities for U.B.C. The report prepared by the President's Task Force was published in UBC Reports in September 1991. The consultant's report "Building a Sustainable Community," which outlined a solid waste management plan for the University, was accepted by the President's Task Force in October 1991.

As a result of recommendations from the President's Task Force and the report "Building a Sustainable Community," the U.B.C. Waste Reduction Program was created in November 1991 within the Department of Plant Operations.

U.B.C. WASTE REDUCTION PROGRAM

I. OVERVIEW

The U.B.C. Waste Reduction Program was intended to be the keystone of an integrated solid waste management plan proposed for the University of British Columbia. This plan called for a systems approach to the management and reduction of waste on campus and projected an ultimate waste diversion from landfill of 58 per cent. The U.B.C. Waste Reduction Program would coordinate implementation of this plan and assist university departments in achieving the waste reduction target.

During a preliminary phase pending financing of the full-scale plan, the program goals were to maintain existing levels of paper recycling and plan a phased-in implementation of the full-scale waste reduction program. Unfortunately the University of British Columbia, in common with other public institutions, was faced with government budget limitations that amounted to an effective decrease in the operating budget and required budget cutbacks and restructuring. Despite these restraints, the University administration demonstrated commitment to waste reduction by allocating a new operating budget to the U.B.C. Waste Reduction Program equivalent to the cost of operating the paper recycling program at the current level.

It is expected, however, that budget limitations and the competition of many worthwhile University programs for increasingly scarce funding will mean that the operating costs for the waste reduction program as laid out in the consultant's report will not be available in the immediate future. The U.B.C. Waste Reduction program is tackling the challenge of revising the plan to eventually achieve as close as possible to the ultimate target outlined in the report in a manner which requires less resources.

II. OBJECTIVES

The ultimate objective of the U.B.C. Waste Reduction Program is **to reduce the quantity of landfilled waste generated on campus, and thus to put into action the principles of sustainable development at the University of British Columbia.** With this goal in mind the Program has endeavored:

- To coordinate and expand waste reduction and recycling activities in the University community.
- To act as a resource and catalyst for waste reduction initiatives in the University community.
- To educate the University community about the practices and principles of waste reduction.
- To integrate waste reduction principles into University operations.
- To monitor and record the results of waste reduction efforts on campus
- To communicate U.B.C. waste reduction achievements to the University community.
- To act as a stakeholder in the development of University policy regarding sustainable development.

III. ACTIVITIES

The Waste Reduction Program has necessarily been involved in a broad range of activities in its effort to change consumption attitudes and provide the means for waste reduction at U.B.C.. The following is a summary of those diverse activities:

Recycling Operations

- Managed the continued expansion of campus-wide paper recycling operations. Paper and cardboard are currently collected for recycling from over 200 buildings on campus.
- Established and administered recycling collection contracts with outside vendors. Currently there are five companies collecting materials at U.B.C. for recycling.
- Assisted in efforts to increase multi-material recycling in student residences and food service outlets. Currently all residences and food service outlets offer some form of recycling.
- Assisted Plant Operations to set up recycling of motor oil, oil filters, antifreeze, batteries, and tires from its vehicle fleet.

Education & Communication

- Maintained and expanded a campus-wide network of Recycling Area Monitors (RAMs) through which information and encouragement on reducing waste is passed to university departments.
- Shared knowledge on waste management and environmental issues with

- students, faculty, and staff through forums and information sessions.
- Acted as resource centre for student academic projects on sustainable development and waste management. Faculties involved include: Computer Science, Applied Science, and Commerce and Business Administration.
- Created a variety of informative signage for strategic display in common waste generation areas on campus.
- Currently developing a communications plan with the assistance of Community Relations which will include orientation for campus employees, a regular environmental column in UBC Reports, a program logo and display, and a brochure publicizing Program initiatives and goals.

Planning & Policy

- Prepared, in consultation with the Sustainable Development Research Institute and Occupational Health & Safety, a draft environmental policy statement for the University. This was recently used by the President's Environmental Advisory Committee in preparation for the submission of policy revisions to the Board of Governors.
- Currently collaborating with Plant Operations, Campus Planning and Development, Purchasing, and the Surplus Equipment Recycling Facility to develop an integrated waste management plan for the university. This includes analysing various options for the implementation of a comprehensive multi-material recycling program.
- Currently working with the Sustainable Development Research Institute to undertake a "Greening the Campus" program.
- Currently working with Occupational Health and Safety to address the reduction and recycling of special waste on campus.
- Currently expanding the range of issues addressed and scope of Program activities in response to campus concerns and changing environmental legislation.

Monitoring & Evaluation

- Undertook a comprehensive audit of recycling activities for each building on campus in order to evaluate waste reduction performance.
- Consolidated waste stream data from a variety of sources to develop a Waste Management Information System for U.B.C. which will allow waste generation and recycling to be monitored down to the building level. This system will enable ongoing evaluation of waste reduction efforts to be carried out.
- Currently working with Plant Operations, Housing, Food Services, and Purchasing to ensure that all relevant waste stream data is channeled into this centralized information system.

External Relations

- Participated in the exchange of information on environmental issues in the external community through involvement with numerous associations and government committees. These included:

Greater Vancouver Regional District Local Solid Waste Advisory Committee
 Greater Vancouver Regional District Technical Solid Waste Evaluation Committee
 Greater Vancouver Regional District Waste Reduction Forum
 Industrial Commercial Institutional Environmental Managers Association
 Institutes for Environmental Initiatives
 Recycling Council of British Columbia

- Developed, organized, and hosted, in partnership with the Greater Vancouver Regional District, "Educating by Example," a waste reduction and recycling workshop for British Columbia colleges and universities.

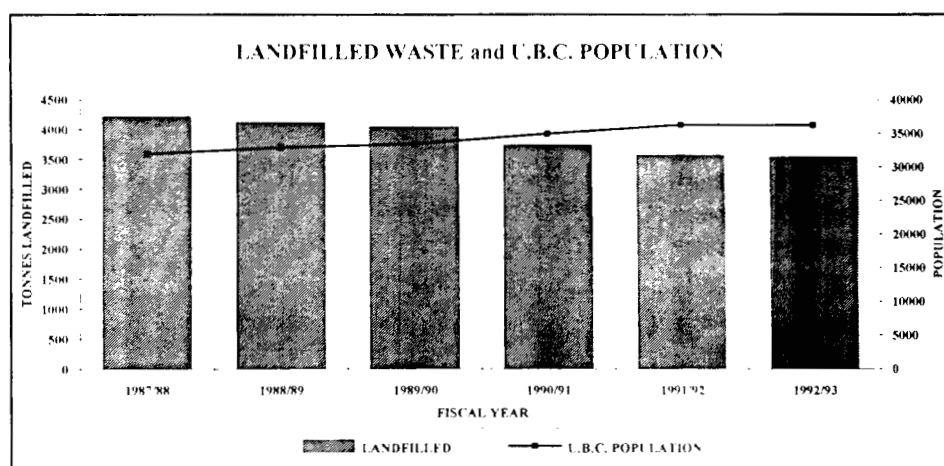
IV. WASTE QUANTITIES REDUCED

Waste reduction at the University of British Columbia is achieved by the following means:

- Reducing the input of materials that contribute to waste. This is achieved through "smart" purchasing and procurement practices.
- Transforming materials more efficiently so that less waste is generated. This is more familiarly referred to as source reduction and reuse.
- Diverting generated waste from disposal through recycling and composting.

The bottom line measure of waste reduction progress is how little waste ultimately gets sent for disposal at the landfill. Over the past six years, due to ever increasing waste reduction efforts, the annual quantity of landfilled waste generated at the University of British Columbia decreased by 16 per cent. This was in spite of a 13.5 per cent increase in campus population, as represented by full-time winter session students, full-time faculty, and salaried staff. These trends are depicted in Chart 1.

CHART 1





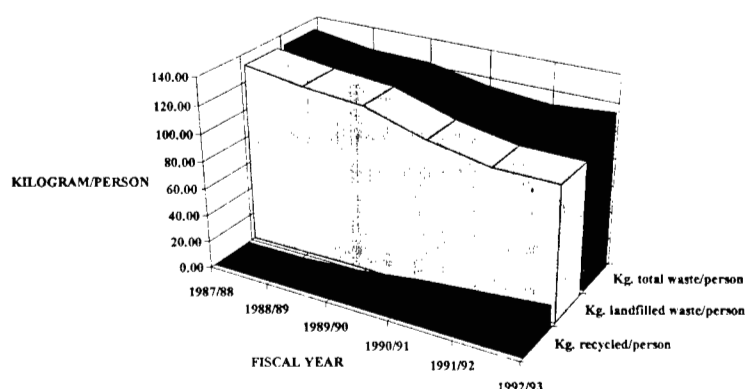
THE UNIVERSITY OF BRITISH COLUMBIA

WASTE REDUCTION PROGRAM - 1992/93 ANNUAL REPORT

The impact of waste reduction at U.B.C. is further illustrated by considering the waste generated per unit population, shown in Chart 2. The total waste (landfilled + recycled) produced per person decreased from 132 kg in 1987/88 to 115 kg in 1992/93. This 13 per cent decrease suggests that smart purchasing, source reduction and reuse on campus have been effective. When recycling activities are added in, the result is a 26 per cent decline in the landfilled waste per person over the six-year period.

CHART 2

WASTE GENERATED PER UNIT POPULATION AT U.B.C.



It is impossible to evaluate what percentage of this waste reduction at U.B.C. is directly attributable to the efforts of the Waste Reduction Program and its predecessors. Consumption and waste disposal decisions are ultimately made by individuals who are being affected by a general shift in society toward more environmentally sensitive attitudes. The role of the Waste Reduction Program is to reinforce and foster positive attitudes toward sustainable development and waste reduction and to provide the means for which these attitudes can be turned into action.

Recycling is one of the means by which the Waste Reduction Program provides the campus community the ability to reduce waste. Recycling activities at U.B.C. have been expanding steadily since the first paper recycling program was initiated in 1989. Data for 1992/93 shows that 627 tonnes of materials were collected for recycling on the U.B.C. campus. This represents a diversion of approximately 15 per cent of what would previously have been landfilled waste.

The yardstick against which waste reduction progress at U.B.C. will be measured in the future is the government target of 50 per cent per capita waste reduction by the year 2000. The baseline year from which waste reduction achievements will be calculated is 1990. The per capita landfilled waste at U.B.C. in 1990/91 was 107 kg/person. Therefore the target at U.B.C. for the year 2000/01 is 53.5 kg/person. Reducing waste at U.B.C. to meet this level will be a challenge. Two years out from the baseline we have achieved about nine per cent waste reduction. Per capita landfilled waste at U.B.C. stands at 98 kg/person. This is a little behind target, but not unexpected given that implementation of a full-scale waste reduction plan at U.B.C. has been on hold due to budget constraints. The arbitrary selection of 1990 as the baseline year is also a little unfortunate for U.B.C. since waste generation on campus dropped significantly in 1990/91 from the previous year. If 1989/90 were used as the baseline U.B.C. would be ahead of target.

V. RECYCLED MATERIALS

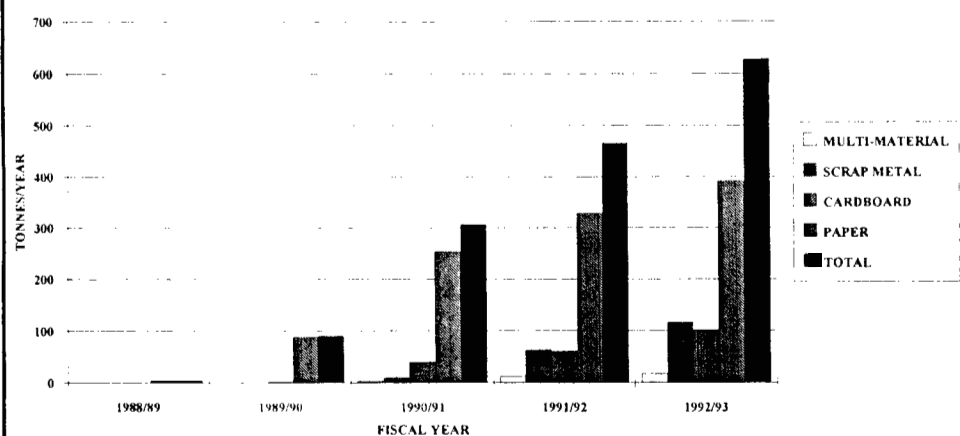
Materials recovered for recycling at U.B.C., for which quantities have been recorded, include:

- Paper
 - office paper
 - newsprint
 - telephone books, hard cover books, magazines, card stock
- Cardboard
- Multi-materials
 - plastic containers
 - metal cans
 - glass bottles
- Scrap metal

A breakdown of the quantities of these materials recycled at U.B.C. over the past five years is shown in Chart 3.

CHART 3

MATERIALS RECYCLED AT U.B.C.



Paper and cardboard easily constitute the largest portion of total recyclables collected. In fact together they account for approximately 78 per cent by weight of current recycling recoveries. This is fully expected since paper products make up almost 60 per cent of the U.B.C. waste stream and a campus-wide paper recycling operation, now managed by the Waste Reduction Program, is very well established at the university.

Multi-materials are collected for recycling at locations such as the Student Union Building, campus residences, and food service outlets where high volumes of multi-materials are generated. Student- and resident-initiated programs have contributed significantly to multi-material recycling results. It should be noted that the actual quantity of multi-materials being collected for recycling at U.B.C. is greater than that recorded. The recycled material represented in Chart 3 accounts only for quantified amounts. It is known that there is additional material being recycled for which weight data is unavailable. The Waste Reduction Program is making an ongoing effort to compile complete statistics which will continue to improve the accuracy of waste stream analysis.

The following are other materials which are being collected for recycling at U.B.C. but for which quantities are currently unavailable:

- construction/demolition debris, including concrete and aggregate, created during campus renovations.
- motor oil, oil filters, antifreeze, vehicle batteries, and tires from the Plant Operations garage.
- photocopier toner cartridges and laser printer cartridges at The Bookstore.

VI. COSTS

The Waste Reduction Program cost a total of \$193,132 to operate in the fiscal year 1992/93. This included the cost of recycling operations and the cost of program administration. The cost avoidance created by Waste Reduction Program activities in 1992/93 was conservatively estimated at \$88,700. This is composed of landfill fees and garbage handling costs which were saved through the diversion of campus waste to recycling.

Even with this significant cost avoidance recycling is still at an economic disadvantage. The unit cost for recycling at U.B.C. is currently \$308/tonne. The unit cost for landfill disposal stands at \$141.50/tonne, which includes the \$69/tonne landfill fee. This disparity results largely from the labour-intensive manner in which high-volume recyclables such as paper and cardboard are currently collected. Recycling also incurs extra costs because, as a new system, it requires greater administrative attention.

Recycling will eventually achieve cost competitiveness as landfill fees rise, as markets for recyclable materials increase, and as recycling operations become more efficient. Over the past six years, landfill fees in Vancouver have jumped by 268 per cent. This has given recycling in its infancy a tremendous boost. It seems likely though that future landfill fee increases will occur at a much slower rate. The emphasis now must be put on market development and system efficiency.

FUTURE OBJECTIVES

The U.B.C. Waste Reduction Program has adopted as its goal the government target of 50 per cent per capita waste reduction by the year 2000. This must be considered a minimum goal for the University of British Columbia. It is now a requirement for federal programs, and it is anticipated that it may become a requirement for any organization receiving federal funding.

The challenge for the U.B.C. Waste Reduction Program is to develop and implement an integrated waste minimization plan for the university which achieves the 50 per cent reduction target yet still respects practical financial limitations. This plan will employ the systems approach to waste reduction proposed in the report "Building a Sustainable Community" - reduce input of materials; transform materials more efficiently; divert waste to recycling and composting. An attempt will be made to apply this system in a less capital- and labour-intensive manner. The following are key considerations that will be incorporated in the plan:

- Greater emphasis must be placed on purchasing, source reduction, and reuse. If materials are prevented from reaching the waste stream the cost of recycling or disposing of them is eliminated. Purchasing items with recycled content is the key to building markets for recyclable materials. This will lower collection costs in the long run.
- Efficiency of recycling operations must be maximized through the employment of existing garbage collection systems. Currently recyclables are collected through a separate system which is highly labour-intensive and expensive.
- Focus must be placed on highly divertable materials in the waste stream such as paper products. If all paper on campus was diverted for recycling the U.B.C. waste stream would be reduced by more the half.
- Respect must be given to the community desire for campus-wide multi-material recycling. A program that is responsive to the needs and desires of the community will achieve higher participation.
- Individual campus support units like Housing, Food Services, and Plant Operations must be allowed to develop recycling systems which suit their individual needs and are thus more efficient and cost effective. The Waste Reduction Program can help these individual units start up tailor-made recycling programs and can coordinate collection contracts with outside vendors to ensure the best service at the lowest cost.
- Incentives must be provided for individual campus departments to reduce waste. This can range from simple encouragement, such as posting goals and results, right through to economic instruments, such as garbage fees.

Waste reduction results at the University of British Columbia to date have been extremely positive. Through hard work and smart management these results will continue to improve and program goals will be met.

If you have any questions, comments, or suggestions with regard to waste reduction and recycling on the U.B.C. campus please, contact John Metras of the U.B.C. Waste Reduction Program at 822-3827 (e-mail: recycle@unixg.ubc.ca).



Martin Dye photo

Liberal Discussions

B.C. Liberal Leader Gordon Campbell talks to Anne Dale, senior associate with the Sustainable Development Research Institute, and Hamish Kimmins, professor in the Dept. of Forest Sciences, during a recent visit to UBC. Campbell and members of the Liberal caucus were here for a round table discussion and private meetings with UBC experts whose work directly relates to the MLAs' duties as opposition critics. Campbell also met with UBC President David Strangway.

News Digest

The 1994 Corporate-Higher Education Forum Awards Program is now open for nominations. Two cash prizes of \$5,000 each are offered to promote and recognize excellence in furthering corporate-university co-operation in research.

Previous winners include Roger Blais of Ecole Polytechnique, Gordon MacNabb, former president of the Natural Sciences and Engineering Research Council, and Fraser Mustard, president of the Canadian Institute for Advanced Research.

Nominees may be individuals or groups and only work performed in Canada will be nominated. Selection criteria include evidence of exemplary initiative, vision, creativity, tangible benefits of research collaboration and involvement of students.

For more information fax (514) 876-1498 or write the Corporate-Higher Education Forum, 1155 Rene-Levesque Blvd. West, Suite 2501, Montreal, Quebec, H3B 2K4.

UBC President David Strangway is deputy chair of the Corporate-Higher Education Forum.

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The Employee and Family Assistance Program (EFAP), a confidential counselling, advisory and information service, is now available to all faculty and staff members whose employment status makes them eligible to participate in UBC's medical plan.

All UBC employees retired within the past two years who participate in a post-retiral benefits package, and their families, are also eligible.

EFAP covers the cost of short-term counselling sessions with Interlock, a private non-profit society of professionals trained to provide assistance with a wide range of personal issues. If English is not your first language, Interlock will make referrals to the appropriate community resource.

The program is jointly sponsored by UBC, the Faculty Association, the Association of Administrative and Professional Staff, Technicians and Research Assistants, the International Union of Operating Engineers and the Canadian Union of Public Employees locals 2950, 116 and 2278.

For assistance, call 431-8200 or toll free 1-800-663-9099.

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Did you know that UBC offers a course in ESP?

That's English for Special Purposes, a new eight-week professional development program designed to help Japanese police officers improve their English language skills.

"The number of foreigners in Japan has risen dramatically in the last decade as the country becomes the economic centre of the world," said John Redmond, co-ordinator of special group programs for UBC's English Language Institute in Continuing Studies.

"Japanese police officers are now in the position of having to deal with non-traditional clients, many of whom do not speak Japanese, but most of whom speak English."

Thirty-six police officers from across Japan are enrolled in the program which includes lectures and training sessions.

The ESP curriculum was developed by professionals from the Justice Institute of B.C., the RCMP and local police forces.

• • • •

The Faculty of Commerce and Business Administration will host an international business conference, Bridging the Pacific: Opportunities in the Pacific Rim, Jan. 14-16 at Vancouver's Waterfront Hotel.

More than 250 students, faculty, and industry and government representatives from North America and the Pacific Rim will take part in the conference, which will focus on Asian investment in North America, and North American investment abroad.

The areas to be discussed include global trade and policy, entrepreneurship, finance, marketing, real estate, international logistics and human resources.

For more information, call Sabina Tan at 241-3055.

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The Council of Prairie and Pacific University Libraries has joined the Inter-University Consortium for Political and Social Research (ICPSR), a major distributor of electronic data in the social and life sciences.

Ten western Canadian universities, including UBC, are involved in the collaborative effort, which will allow faculty and students to more effectively utilize social science resources with 350 academic institutions already affiliated with ICPSR world wide.

Classified

The classified advertising rate is \$15 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 Community Relations Office, 207-6328 Memorial Road, Vancouver, B.C., V6T 1Z2, accompanied by payment in cash, cheque (made out to UBC Reports) or internal requisition. Advertising enquiries: 822-3131.



The deadline for the Nov. 25, 1993 issue of UBC Reports is noon, Nov. 16.

Services

DO IT RIGHT! Statistical and methodological consultation; data analysis; data base management; sampling techniques; questionnaire design, development, and administration. Over 15 years of research and consulting experience in the social sciences and related fields. 433-7807.

STATISTICAL CONSULTING PhD thesis? MSc? MA? Research project? I cannot do it for you but statistical data analysis, statistical consulting, and data management are my specialties. Several years experience in statistical analysis of research projects. Extensive experience with SPSS/SAS/Fortran on PCs and mainframes. Reasonable rates. Call Henry at 685-2500.

Bed & Breakfast

GARDENSEND Bed and Breakfast in self-contained cottage. Breakfast ingredients supplied. Kerrisdale area. No pets or smokers. \$60 single, \$15 each additional person. (Maximum four people.) 263-7083.

Services

SINGLES NETWORK Single science professionals and others interested in science or natural history are meeting through a nationwide network. Contact us for info: Science Connection, P.O. Box 389, Port Dover, Ontario, N0A 1N0; e-mail 71554.2160@compuserve.com; 1-800-667-5179.

Prof's book explores ways of psychopaths

Nobody knows more about psychopaths than UBC Psychology Prof. Robert Hare.

Later this month, he imparts 25 years of research into the mental disorder with the release of his book, *Without Conscience: The Disturbing World of the Psychopath Among Us* (Simon & Schuster).

Hare describes psychopaths as glib, manipulative, impulsive, egocentric, deceitful, sensation-

seeking, selfish, irresponsible, lacking empathy, guilt and remorse.

"Psychopaths don't have emotional hangups," he said. "They're basically predators who view other people as objects to be used and manipulated."

Hare is also author of the *Hare Psychopathy Checklist-Revised*, heralded as the best available method for assessing psychopathy.

THE UNIVERSITY OF BRITISH COLUMBIA

SIR CRISPIN TICKELL

WARDEN, GREEN COLLEGE, OXFORD

THE UNITED NATIONS IN PEACE AND WAR

Saturday, November 20

8:15 pm in Woodward Instructional Resources Centre,
Hall 2

The Vancouver Institute

GAIA: GODDESS OR THERMOSTAT?

Monday, November 22

12:30 pm in Geography 200
The President's Lecture

Co-sponsored by the Office of the President, the Faculty of Graduate Studies, Green College, External Affairs Office, the Vancouver Institute and the President's Advisory Committee on Lectures.

Thomas Cook/Marlin Travel opens new office on university campus

The Thomas Cook/Marlin Travel office is now open on campus in the site of the old post office in the General Services Administration Building.

The travel agency was contracted to UBC under the university's Travel Management

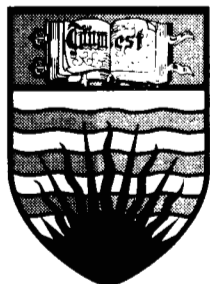
Program.

It has saved faculty and staff close to \$200,000 in rebates since the program came into effect in 1991.

In 1991-92, roughly half of the \$5 million that UBC employees spent on business travel was

handled through the travel management program.

For further information on airfares and benefits on corporate hotel rates, car rental, credit cards and airport parking, contact Lindsay Ward at 822-9870.



THE UNIVERSITY OF BRITISH COLUMBIA PRIZES FOR EXCELLENCE IN TEACHING CALL FOR NOMINATIONS IN THE FACULTY OF ARTS

Once again the University is recognizing excellence in teaching through the awarding of prizes to faculty members. The Faculty of Arts will select five (5) winners of the prizes for excellence in teaching for 1994.

Eligibility:

Faculty who have three or more years of teaching at UBC are eligible. The three years include 1993-94.

Criteria:

The awards will recognize distinguished teaching at all levels: introductory, advanced, graduate courses, graduate supervision, and any combination of levels.

Nomination Process:

Faculty, students, or alumni may suggest candidates to the Head of the Department, the Director of the School, or the Chair of the Program in which the nominee teaches. These suggestions should be in writing and signed by one or more students, alumni, or faculty, and they should include a very brief statement of the basis for the nomination. You may write a letter of nomination or pick up a form from the office of the Dean of Arts in Buchanan Building, Room B 130.

Deadlines:

The deadline for submission of nominations to Departments, Schools or Programs is January 21, 1994.

Winners will be announced in the spring, and identified during Spring Convocation in May.

For further information about these awards contact your department or call Associate Dean of Arts Dr. Sherrill Grace at 822-9121.



The UBC Conference Centre Comfortable and Affordable

Walter Gage Court has 48 guest suites, ideal for families or those extra guests over the holidays! Each unit contains a bedroom with twin beds, living room with a hide-a-bed, kitchenette, television and private bathroom. Enjoy UBC's many attractions just minutes from downtown Vancouver and the airport.

The UBC Conference Centre
welcomes visitors year round!

Telephone: (604) 822-1060 Fax: (604) 822-1069

People

by staff writers

UBC Registrar **Richard Spencer** has been appointed director of Student Services for a five-year term.

The new position, which reports to the vice-president,

Student and Academic Services, was created to improve the quality, efficiency, co-ordination and coherence of services offered to students.

As director of Student Services, Spencer's additional responsibilities include Awards and Financial Aid; the International Student Centre; School and College Liaison Office; Student Counselling and Resources Centre; Student Health Service; Student Placement Services and the Women Students' Office.

Spencer was first appointed registrar in 1988 and was recently appointed to a second five-year term by UBC's Board of Governors.



Spencer

•••••

Raymond Chan, a system design engineer at TRIUMF and newly elected Member of Parliament for Richmond, has been named to the federal cabinet as Secretary of State responsible for the Asia Pacific region.

Chan was chosen by Prime Minister Jean Chretien to take the junior cabinet minister position, which falls under Andre Ouellet's Foreign Affairs Ministry.

Chan was sworn in along with the prime minister and other cabinet ministers at a Nov. 4 ceremony at Rideau Hall, the official residence of the Governor General.

He was one of six Liberals elected from B.C. in the Oct. 25 federal election.

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Prof. Ken Haycock, director of the School of Library, Archival and Information Studies, has been named a fellow of the Canadian College of Teachers.

Haycock was cited for his work in public education in Canada and around the world and particularly for his contributions as director of program services with the Vancouver School Board from 1984-1992.

During that time he was responsible for curriculum management as well as innovation, resources, technology and staff training.



Haycock

T-bird soccer teams championship bound

by Abe Heffer

Staff writer

UBC's soccer teams have advanced to their respective Canadian Interuniversity Athletic Union (CIAU) championships.

UBC's men's team will be gunning for its fifth straight national title after beating the Alberta Golden Bears 2-1 in overtime at the Canada West championships Nov. 6 at O.J. Todd Field. Kevin Hearne scored the winner in the 20th minute of overtime to give UBC its fifth consecutive Canada West title.

The Thunderbirds, national soccer champions seven of the last nine years, will travel to Acadia University in Wolfville, NS, for the CIAU tournament, where they will open pool play Nov. 12 against Western Ontario.

UBC's women's team cap-

tered the Canada West championship with a 1-0 victory over the Calgary Dinosaurs Nov. 7 in Calgary. Andrea Neil's goal at the 65-minute mark enabled the T-Birds to advance to the CIAU championships Nov. 11-14 at McGill University in Montreal.

Meanwhile, the men's cross-country team took top honours at the CIAU championships last weekend at Dalhousie University in Halifax for their first-ever CIAU title.

In a repeat of last year's finish, the women's cross-country team placed second, behind the University of Calgary.

In addition, UBC finished fourth at the CIAU women's field hockey championships last weekend at the University of Toronto.

Leslie Richardson and Sam Leriche emerged as tournament all-stars.

Status of Women report available

The second annual **Report on the Status of Women at UBC**, by Florence Ledwitz-Rigby, has been distributed to deans, heads, directors, vice-presidents and women's groups on campus. A copy will be available in Main Library. For a copy, please send your request with name and campus address to Deborah Dean, V.P. Academic Office, Zone 2.

Profile

John Robinson energizes research on environment

Sustainable by design

by Charles Ker

Staff writer

John Robinson is going over the current lineup of projects at UBC's Sustainable Development Research Institute (SDRI) when suddenly, halfway down the list, his scrolling comes to an abrupt halt. Glancing across to his guest, he grins, leans back and points emphatically at the page.

To this point, the lineup has been most impressive: a \$2.4-million study of the Fraser River Basin; a series of easy-to-read annual reports on sustainability; the formation of a Canada-wide network of similar institutes; a 10-project study of hazardous wastes and a grand scheme to 'green the campus' through student-initiated research projects.

What single initiative, the guest wondered, could possibly warrant such a satisfied smirk and sustained finger pointing?

"Have you ever played SimCity?" the SDRI director asks excitedly. "Well, we're hoping to build SimBC."

Along with a profound understanding of the ecological, technological, economic and social factors influencing his work, this energized geography professor from Ontario has also brought fun and games to the weighty business of building a sustainable future.

SimCity, Robinson explains, is a popular commercial computer game which has turned an estimated 10 million users into urban planning junkies. By making a game specific to B.C., Robinson hopes to drive home to local players the trade-offs inherent in choosing one lifestyle over another.

"There is immense learning potential here because people can play it on their own time, in their own home and make real choices about real issues," said Robinson, SDRI's resident generator, creator and crusader for interdisciplinary research.

The idea for SimBC emerged three months ago. Since then, Robinson has assembled a design team of faculty members on campus, met with the game's manufacturer, received support from BC Hydro and approached provincial and federal government officials for their assistance.

The same process that went into creating SimBC, otherwise known as the Sustainable Society Gaming and Simulation project, has been followed for the 29 other SDRI initiatives which have sprouted since Robinson's arrival 18 months ago. And it's a formula that seems to be working in a climate Robinson calls one of "insurmountable opportunity."

"Possibilities are emerging all the time and it's really just a matter of finding the human resources to act on them," he said. "The only real constraint is persuading good people, who are busy themselves, to work on projects they wouldn't normally do."

Robinson, 40, comes tailor-made for the job of directing the SDRI's interdisciplinary mandate.

He became hooked on environmental studies and the interdisciplinary format

in first year at the University of Toronto where he designed his own 40-course curriculum.

"I was advised to get a specialist degree first but that just made me angry and more determined to take the interdisciplinary route the whole way through my undergraduate years."

From U of T, Robinson took his geography degree to a small non-governmental organization and joined the fight against the Mackenzie Valley Pipeline. In order to keep active in the debate, he decided to continue environmental studies at York University with a master's degree, looking specifically at alternatives to Canada's energy policy.

The young environmentalist thought he would eventually drift into law but for three consecutive years turned down letters of acceptance from various schools. Law went out the window altogether when, on graduation day at York, he made a snap decision to return to U of T and immerse himself in the more philosophical aspects of energy consumption and environment.

Along with 11 years of teaching experience from the University of Waterloo's Dept. of Environment and Resource Studies, Robinson comes to UBC loaded with practical knowledge of public policy gained primarily through consulting work with public utilities in

Canada and abroad.

While some academics look upon outside contracts as a lesser form of research than work done through council grants, Robinson doesn't make such distinctions. As he puts it, "I'm interested in work that actually has some effect and doesn't just appear in journals and books."

Most recently, Robinson was affecting public perception as chair of the Canadian Options for Greenhouse Gas Emission Reduction (COGGER) Panel. The panel's report garnered national news coverage by outlining the economic benefits of increasing energy efficiency and the use of alternate fuels.

His work as principal investigator for the Environment Canada project "Designing a Sustainable Society for Canada" also made headlines this year with its projections of what the country could look like in 2030. UBC Press will publish a book on the project early in the new year.



Charles Ker photo

"Our problems don't fit into nice neat boxes. It is a painful process . . . but all disciplines must somehow learn to talk the same language."

- John Robinson, director,
Sustainable Development Research Institute

According to Robinson, one of the biggest challenges researchers face is how to redefine the term 'consumption' in order to make it relevant to the needs of earth's five billion inhabitants. He points to colleague Bill Rees' calculation that two additional earths would be needed to support current population growth on a sustainable basis if everyone consumed at the level of the average Canadian. And that's assuming Canada and the so-called developed nations don't grow at all.

Robinson also believes universities must look to redefining their own structures. While institutions have been built upon separate disciplines which are vital and necessary, he says that this approach to learning, on its own, isn't sufficient to meet society's changing needs.

"Our problems don't fit into nice neat boxes," he said. "It is a painful process, but in order to tackle new problems with new approaches academics in all disciplines must somehow learn to talk the same language."

To kick-start the three-year-old institute, Robinson employed what he calls a "scatter-gun approach" - that is, getting many research irons in the fire and waiting to see how many catch.

The concern for Robinson and his SDRI associates may soon be whether they've perhaps spread themselves too thin. But in the cozy confines of Main Mall's Hut 5, Robinson remains buoyed by the enthusiastic response from the more than 60 academics in 11 faculties who have involved themselves in SDRI research.

For his part, Robinson spends 80 per cent of his time on SDRI-related matters and the remainder in the Geography Dept. where he co-teaches undergraduate courses on environmental thought and the geography of resource industries.

Ever the opportunist, Robinson also gets two hours of work done on the bus travelling to and from Richmond where he lives with his wife Deborah and three sons. It's a commute he refers to as "an unanticipated benefit of Vancouver's high-priced housing market."