

UBC REPORTS

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Housing income to fund research

by Gavin Wilson

Staff writer

The first allocation of funds to UBC from the Hampton Place market housing development will be used to fund research in the humanities and social sciences. President David Strangway announced recently.

The investment income from \$5 million generated by Hampton Place sales, about \$300,000, will be available for research in the humanities and social sciences in the 1994/95 academic year. Funds used to generate income will rise to \$10 million in 1995/96 and \$15 million the following year, creating a pool of about \$900,000 for such research.

"Research in the humanities and social sciences is right at the heart and soul of the university. That we are able to direct additional resources to stimulate and support it is very gratifying," said Daniel Birch, vice-president, Academic, and Provost.

The UBC Real Estate Corporation was established by the university to develop Hampton Place, a market housing project at the corner of 16th Ave. and Wesbrook Mall.

Of Hampton Place's 10 sites, three sites totalling about 300 units are now occupied and two more are under construction. Construction began in 1990.

"I'm sure everyone will join me in our expressing appreciation to the directors of the UBC Real Estate Corporation who have made this project possible, especially board chairman (and UBC Chancellor) Bob Lee," Strangway said.

Robert Miller, vice-president, Research, will strike an advisory committee to develop the most effective way to stimulate research with the Hampton Place funds, Strangway said.

Guidelines will include a system of full international peer review for all proposals. Both individuals and teams of researchers will be eligible.

One criterion will be the likelihood that the research will gain further support from foundations or funding agencies. Renewal of funding will hinge on such additional support. Another criterion will be identifying research topics that cross disciplinary boundaries.

A first call for proposals will be made at the beginning of July, with a deadline for the first round of proposals due the beginning of October.



Gavin Wilson photo

Play Ground

Indoor sandbox lets preschoolers Grace Roy Hess, left, Gabriel McPhee and Sydney Williams have fun even on a rainy day. The three are enrolled in the Faculty of Education's Child Study Centre, one of the city's best child care facilities and a world-renowned research centre for early childhood education.

Faculty shifts emphasis to international market

by Gavin Wilson

Staff writer

When Agricultural Sciences Dean Jim Richards was in the Philippines recently to cement ties with a university there, he visited a couple of his students who were on an exchange "just to see how they were doing."

That tells you a couple of things about Agriculture.

First, because it is one of the smaller faculties on campus — its 496 undergraduates wouldn't fill UBC's largest lecture halls — there's a more personal touch than you might find elsewhere on campus.

It also illustrates the increasing international emphasis placed on study and research as the faculty, one of the oldest on campus, prepares for the 21st century.

Students today are being equipped for a world vastly different than that of the first Agriculture students who enrolled in the faculty in 1917.

"Issues in the agricultural and food sectors are shifting from the purely technical and scientific to include more social and ethical dimensions," Richards said.

Although the science behind raising farm animals and growing crops is still an important pursuit in the faculty, new emphasis is being placed on food technology, environmental stewardship and global linkages.

Teaching and research are carried on in five departments — Agricultural Eco-



Jim Richards

Focus on Agricultural Sciences, pages 4 and 5

nomics, Animal Science, Food Science, Plant Science and Soil Science — as well as in the School of Family and Nutritional Sciences and the Landscape Architecture Program.

The faculty is in the midst of a major overhaul of its curriculum to ensure that its programs are serving the needs of students and their future employers, said Associate Dean Michael Pitt.

Some of the changes were prompted by surveys of recent graduates conducted here and at other universities. In the workplace, graduates found they were lacking skills that traditional agriculture programs did not cover.

To help correct this, the faculty is proposing new courses on professional communications, critical thinking and ethics.

"The world is increasing in complexity, and we believe that requires students to have a broader outlook, but at the same time, without sacrificing the technical skills they acquire in our program," Pitt said.

"We're trying to focus on what we do best while responding to the changing goals and values that society demands from our graduates," he added.

The new curriculum will also reflect growing environmental concerns, both in the core curriculum and as an area of specialty. Among faculty members, sustainability and stewardship are the bywords of a growing area of research.

TRIUMF supporters call for government commitment

by Gavin Wilson

Staff writer

It was a dark day for Dr. KAON.

Not only did the Feb. 22 federal budget deal a death blow to the billion-dollar KAON project, but leaked reports to the Vancouver Sun led to erroneous headlines that Erich Vogt had been "forced out" as director of TRIUMF.

It wasn't enough to quell Vogt's fighting spirit, though. KAON's most tireless and ardent supporter quickly rebounded, heading a protest rally that attracted

supporters such as Premier Mike Harcourt and UBC President David Strangway.

The KAON project, a huge accelerator designed to create sub-atomic particles known as kaons for scientific research, would have made TRIUMF an international centre of particle physics. The 20-year-old TRIUMF facility, with its smaller accelerator, is operated by a consortium of Western Canadian universities, including UBC.

Vogt's next mission is to ensure that the federal government raises its level of

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Letters

Higher fees not incentive to finish faster

Editor:

The Feb. 24 UBC Reports contained a statement outlining new proposals for graduate tuition fees, including the plan to eliminate "continuing fees" for those students who are "post-program" and to charge, instead, a flat annual fee regardless of which year a student is in. The advantages to these higher fees are

supposed to be "incentive to completing the graduate program in as efficient a way as possible" and providing "additional revenue to the university." Neither of these positions bears up to reasonable scrutiny.

Firstly, no university in Canada has statistics on completion and attrition rates adequate to prove, or even suggest, that higher fees would get students through quicker. In fact, anecdotal evidence suggests the opposite. Students in their fourth and fifth

years of the PhD are rarely eligible for scholarships or fellowships and thus must resort to part- or full-time paid work to support themselves, limiting the amount of time they have to spend on their dissertations and effectively lengthening the time it takes to complete. Higher tuition fees would only exacerbate this problem.

Secondly, graduate students are, quite possibly, the group least able to provide "additional revenue" for the university. The idea that taking

money from students living on part-time research jobs (some as low as \$500 per month) is a good way to provide scholarship money for those students eligible for scholarships which can pay as much as \$14,000 per year (or over \$1,000 per month) is ludicrous at best.

Despite the administration's alleged commitment to making UBC a graduate research institution, it continues to bring in measures which alienate graduate students. If the administration is truly committed to graduate stu-

dents and to making UBC a "world-class" research institution, it should be considering ways to lower or even eliminate graduate student tuition fees, and concentrate on maintaining or raising the academic standards of the students and the university. The raising of tuition fees will make UBC one of the most expensive graduate schools in the country, a factor which will not help to attract excellent graduate students.

Eileen D. Mak
PhD candidate
Dept. of History

Daycare a worthwhile investment

Editor:

While I work toward a PhD in Political Science, my baby and four-year-old play at Goslings and Pacific Spirit day-care centres at UBC. Hopefully, your readers are already aware of UBC Daycare Council's community contact campaign, "I Care About UBC Day Care."

Parents of children in the 12

UBC day-care centres are distributing campaign cards to UBC students, faculty and staff. Access to quality, affordable, on-site, child care at UBC, as many of our advisors, colleagues, and employers recognize, is vital to many UBC careers. When they meet on March 17, the Board of Governors will have been reminded by the campaign that the UBC community at large values excellence in child care on campus.

The university-administered day-care centres set standards for excellence in child care which are recognized province

and world-wide. Visitors travel the globe to observe creative and nurturing dynamics in play daily at UBC day-care centres and competition among early childhood educators for the chance to do their practicum here is intense. Parents are also able to learn from highly trained, experienced staff, and by participating in story and snack times, outside play, and the transition times between activities. While we are at work, we are comforted to know that our children are at play (their work) nearby in a safe, well-structured, multicultural environment, with adults who

respect them.

The qualitative advantages at UBC day-care centres — from location to multiculturalism to earthquake preparedness — can be seen to add up quickly. So, too, do elements on the quantitative dimension. Licensed care is highly regulated, and the qualitative demands on the UBC centres add to overhead. Many of us are forced out of the system by cost — i.e., \$1,500 per month for two children in full-time care. In the last year fees increased \$80 - \$110 per month per child.

The members of the Board of Governors and the Daycare Council have been working together to find ways to cut costs. The bottom line is that child care at UBC is a worthwhile investment in many careers and in a new generation.

Karen Guttieri-Hannig
Graduate student

Ideological agenda part of feminist battle

Editor:

Although exhorted to engage in "real dialogue" (by James Steiger) and to pursue "discussion on a level of civil professional discourse" (by Peter Suedfeld), I find it difficult to pay their arguments the respect they obviously believe they merit. Both men claim to support some form of feminism while failing to acknowledge, even through disagreement, its most basic insights.

For example, they seem to believe that they are uncovering damaging facts when they assert that Florence Ledwitz-Rigby and Veronica Strong-Boag are not "ideologically neutral" (Steiger) and are

"advancing particular ideological agendas" (Suedfeld) in opposition to their own disinterested pursuit of truth; in fact, no feminist would claim to be ideologically neutral, feminism having long ago exposed, through painstaking investigation and analysis, the way that such "neutrality" has consistently masked a white male bias.

I am quite happy to admit as I'm sure Strong-Boag and Ledwitz-Rigby would, my "ideological" interest in seeking and end to women's continued marginalization within the academy. Steiger's attempt to downplay that marginalization in his teaching and his writing betrays its own, less honest, political agenda.

Both men defend their right to "criticize all research presented on this campus, regardless of its ideological

heritage" as if that right is threatened. As far as I know, there is no move underway to bar them from expressing their views; in fact, from Steiger's recent spate of publishing it would appear that he is quite "free" to exercise the right to self-expression without fear of job loss or reprisal.

Women on campus, in contrast, are often subject to threats or acts of physical violence for expressing feminist views: a concrete example of women's unfreedom manifested most recently in the letters sent to women in Counselling Psychology. When we attempt to define our situation by, for instance, naming the dominant group as "white" or "male," we are accused of sexism and racism by the very men who regularly deny that such phenomena exist.

Privileged men such as Steiger and Suedfeld face far fewer barriers to free speech than do the "chilly climatologists" they label oppressive. But perhaps it is not so much free as unchallenged speech whose loss Suedfeld and Steiger are lamenting.

Janice Fiamengo
Graduate student

Professor's conclusions lack support

Editor:

I wish to comment on Prof. James Steiger's article (UBC Reports, Jan. 13) on the asymmetrical picture painted by Connie Filletti's article and Florence Ledwitz-Rigby's survey of female faculty. In my judgement, Steiger's article suffers from logical inconsistencies.

He summarizes his comments by stating: (1) he is forced to conclude that the survey of women faculty, as reported, "is biased, not particularly competent, and of little use," (2) it, and others

like it, presents a completely asymmetrical picture of a complex situation, and (3) the tolerance which many males display toward writers like Filletti and Ledwitz-Rigby gives rise "to a situation that now borders on anti-male abuse."

A major problem with these conclusions is that they are based on very thin evidence. With respect to the bias and limited use of the survey, for example, Steiger reports that he distributed the Filletti article and presumably the companion interview with Ledwitz-Rigby to his students, that they like him were concerned about drawing any conclusions about men on campus since they were not surveyed, that by polling only women there was a veiled

message about male oppression, that the asymmetrical approach to human problems implicit in the survey was doomed to failure, and that Ledwitz-Rigby generalized about campus-wide behaviour without a breakdown by department or faculty.

What he fails to report, however, is whether he took the time to look at the survey itself, obtained a copy of the questionnaire, talked to the research director about her motives (since he seems to be clear about her intent), or even enquired about the adequacy of the data base to make conclusions about individual faculties and departments.

It takes an equal stretch to
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Review takes aim at increased efficiency

by Abe Heffer

Staff writer

UBC is embarking on a campus-wide initiative to simplify, streamline and increase the effectiveness and efficiency of its major work processes.

The Process Improvements and Development Committee will initially tackle financial system processes, including several areas such as university appointments and purchasing.

"This isn't simply a case of fixing something. There are a lot of paper trails on campus, and many involve redundant steps along the way," said President David Strangway.

"We need to determine if we can do things more effectively and efficiently. In this process, we will start from scratch to determine what it is we really need to do, and if there's a better way to do it."

John Chase, director of Budget and Planning, said the examination of work as a process that flows across many units on its way to the customer is a crucial starting point.

"A unit's responsibility doesn't begin and end with that particular unit," said Chase, one of two project managers on the committee, along with Frank Eastham, associate vice-president, Human Resources.

"There's a flow of information that can cross over to more than a dozen other units that may be involved in a decision-making process. Over time, each unit involved may go through isolated changes which may slow down the process and make it more bureaucratic and frustrating to the customer."

Chase says it's time to step back and take a look at the entire process and the function of each unit in order to have a clearer sense of authority and responsibility.

For example, the committee will look at the appointments process from identifying the need for a new position to filling it. The purchasing process will be examined from the point a purchase request is made through to payment.

What does this mean to UBC staff? "This will affect an enormous number of people on campus, hopefully in a positive way, with a resulting increase in quality of employment," Chase said.

Chase said committee decisions will not be made in a vacuum. Depending on the individual project, various people from across campus will be called upon for their input.

"The biggest issue is making sure the campus knows what we're doing, and why," Chase said.

Engineers' mentor program helps female students cope

by Gavin Wilson

Staff writer

It's not always easy being a young woman in engineering, but when Maya Charnell feels like talking to someone, a sympathetic ear is just a call away.

Thanks to a program jointly sponsored by the Faculty of Applied Science and the Women Students' Office, the third-year civil engineering student has a mentor, a female professional engineer who knows just what she's going through.

"Engineering is a gruelling program," Charnell said. "Sometimes it's hard to keep your perspective. She's really helped me pull through."

Charnell and her mentor, Marjorie Buckley, are one of 30 mentor-protégé pairs in a program that started as a pilot project in 1991.

Mentors are members of the Division for the Advancement of Women in Engineering and Geoscience (DAWEG), a division of the Association of Professional Engineers and Geoscientists of B.C. (APEGBC). DAWEG also matches senior and junior female engineers as part of the program.

The DAWEG-UBC program is aimed at women students in third- and fourth-year, a time when they face uncertainty and change.

"Moving from student life into a professional position is a big transition," said Sarah Dench of the Women Students' Office, who co-ordinates the program for UBC.

Female students face the added challenge of adapting to what is still a male work-world. Having mentors helps them deal with issues such as harassment, pay equity and balancing career and family, Dench said.

"Women are still underrepresented in engineering, but they want to fit in and get ahead. It helps to share some things with older women, picking up a few threads that may have been dropped along the way," she said.

Karen Levine is a mechanical engi-

neer with B.C. Hydro whose concern with retention within the ranks of women engineers led her to help co-found the program.

Although more women were receiving engineering degrees, many later dropped out of the profession.

"I didn't feel there were a lot of support systems out there," Levine said.

She stays in touch with her protégé, fourth-year mechanical engineering student Christa Greentree, helping her brush up on interview skills, write resumes and negotiate a salary. Sometimes, they just hang out together, seeing a movie or going for dinner.

"It usually develops into a friendship over time," Levine said. "Number one, two and three on the list of things to do with your protégé are to listen, listen and listen."

The next time they get together, Levine will present Greentree with her iron ring at the traditional ceremony for graduating engineering students.

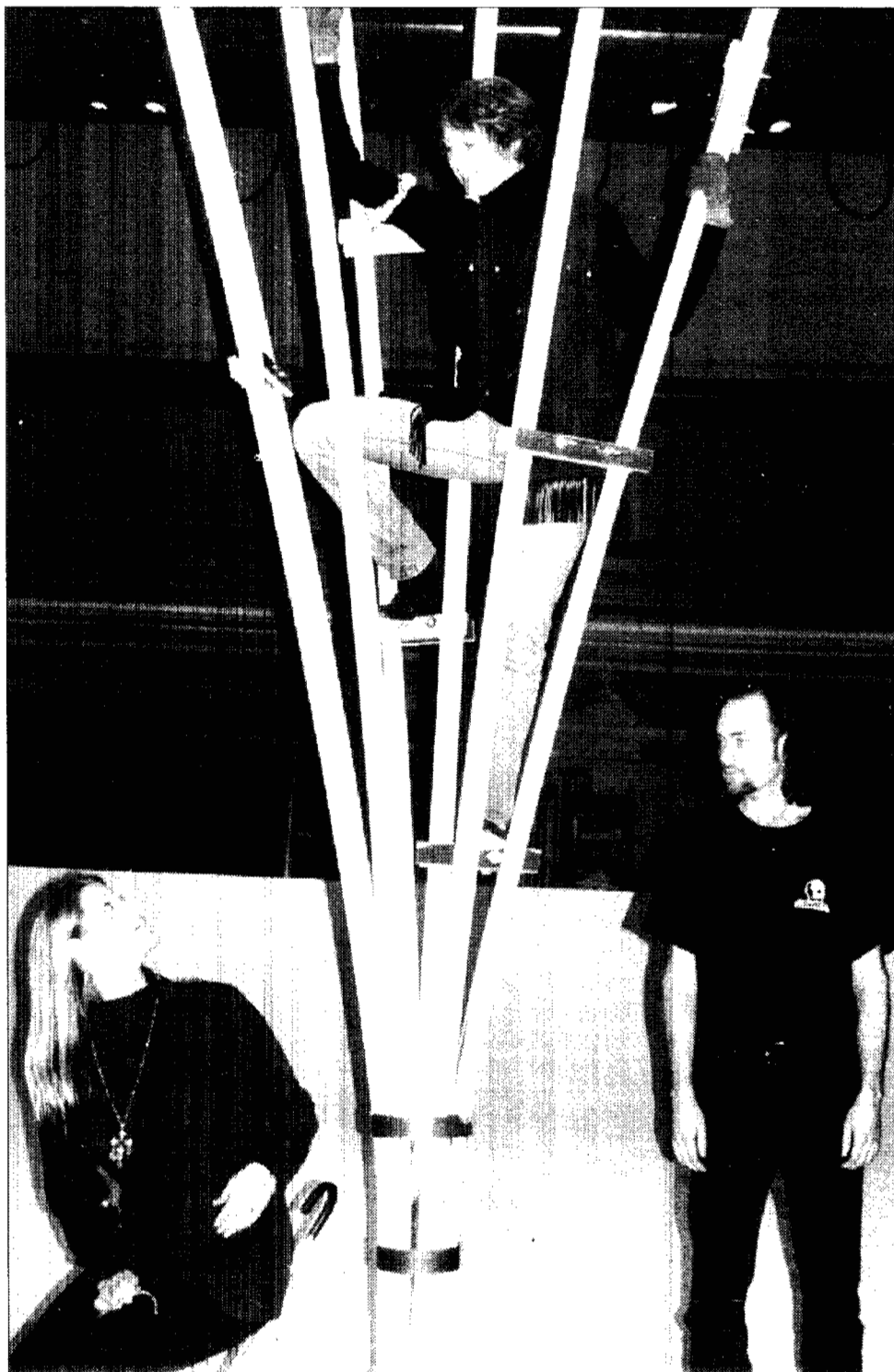
Dench said the program works hard at making the mentoring matches a success, bringing together women who share similar hobbies and temperaments.

Typically, the biggest stumbling block is that the mentor and protégé have different expectations. Protégés are sometimes not sure what to ask, worry that their questions are trivial or think that mentors have all the answers.

To help overcome these obstacles, the program offers workshops dealing with personal development issues such as assertiveness and communication styles.

The success of the program has male engineering students asking for one of their own.

"I'd love to see a program like this developed for male students but it doesn't fit my mandate at the Women Students' Office," Dench said, adding that another branch of the APEGBC is considering such a program.



Abe Heffer photo

A Labour Of Love

Theatre students (l - r) Kendall Cross, Catherine Williams and Peter Murphy rehearse a scene from William Shakespeare's *Love's Labour's Lost*. The play, directed by Neil Freeman, is being performed at UBC's Frederic Wood Theatre until March 19. Tickets are \$8 for seniors and students, \$12 for adults, Monday through Thursday. Friday and Saturday tickets are \$10 for seniors and students, and \$14 for adults.

Salary increases unlikely in UBC operating budget

All signs point to a zero per cent increase in UBC's operating budget for the coming year, which translates into little money available for items such as salary increases, President David Strangway told a management and professional staff at a March 2 forum.

"I think it is a very tough time for all employee groups," he said. "There's nothing coming in to put on the table."

The university's financial picture will be clearer March 22 when the provincial government brings in its budget.

Strangway met with about 100 staff members at a session organized by the Association of Administrative and Professional Staff (AAPS) to discuss a variety of issues, including the status of negotiations on a voluntary agreement between UBC and AAPS.

AAPS is a voluntary, independent organization which currently represents about 550 administrators, managers and other professionals on campus.

Asked his opinion on the status of the voluntary agreement, Strangway said that although it is not yet concluded, he thinks both sides have come

a long way, having resolved all but two outstanding issues.

"The university is very much interested and has shown a great deal of incentive and motivation in arriving at a

voluntary agreement," added Marc Broudo, AAPS second vice-president.

AAPS is awaiting the university's negotiating position on the two remaining issues, which centre on exclusion of positions and third party binding arbitration on financial matters.

Strangway also

touched on UBC's process redesign of systems on campus, including appointments processing and financial records and, eventually, student and alumni records systems.

The challenge, he said, will be to find the most appropriate way to implement these systems.

He emphasized that management and professional staff will play an important role in making effective and lasting changes.

Strangway will continue to meet with faculty and staff. Three faculty-wide meetings are scheduled for early to mid-April.

"I think it is a very tough time for all employee groups. There's nothing coming in to put on the table."

- David Strangway

Faculty of Agricultural Sciences

Stressed out salmon no fish story

Stress is something most people associate with a hectic lifestyle, not with coho salmon.

But stress in wild and farmed fish, especially its effect on disease resistance, is the research focus of George Iwama, an associate professor in the Dept. of Animal Science.

His work has important implications for the growing fish farming industry, which is already worth \$130 million to the B.C. economy.

"Fish farming has gone through some tough economic times, but it's coming back very strong," said Iwama, who is one of several researchers in the Faculty of Agricultural Sciences conducting studies on fish.

Fish farming is a relatively new industry, compared to other food production industries, and there is still a lot to learn about aquaculture, Iwama said. It is similar to the situation in the livestock and poultry industries a few decades ago, when research on nutrition, diseases and genetics allowed dramatic gains in efficient productivity.

Controlling disease is and will continue to be a crucial factor in the future success of the aquaculture industry — and an important factor in managing fish health is understanding how fish react to stress.

Natural events can cause

stress, but it is most often caused by humans. Pollution, which can make the water low in oxygen, high in acid, or simply poisonous, is often a major cause. Other causes are simply the result of the fish farming process: overcrowding, physical handling and transport.

Long-term exposure to stress suppresses the immune system, making the fish susceptible to pathogens.

Iwama's interests in stress and disease led to an invitation as one of the founding members of the Canadian Bacterial Diseases Network (CBDN). The network, one of four federally funded

Centres of Networks of Excellence based at UBC, brings together a group of top-flight scientists from across the country who share an interest in the control of bacterial disease in humans, plants, animals and fish.

Through his work there with biochemist Peter Candido, Iwama has solidified his links with industry through a formal research agreement with StressGen Biotechnologies, a Victoria-based company. StressGen manufactures antibodies against stress proteins that have various uses, such as research tools for detecting and monitoring stress in cells, tissues and whole animals.

"My experiences as a member of CBDN really opened my eyes to the full range of industrial applications of our research,"

Iwama said.

Other private sector companies have actively supported his studies, including B.C. Packers

Stories by
Gavin
Wilson
Staff writer



Gavin Wilson photo

Animal Science graduate student Kevin Spicer nets a coho salmon being used in stress experiments in Associate Prof. George Iwama's laboratory. The research could benefit B.C.'s fish farming industry.

and Yellow Island Aquaculture of Campbell River, with funding or contributions of staff time, fish, feed, drugs or chemicals.

Iwama also has ongoing collaborations with the federal Dept. of Fisheries and Oceans, a partnership that also benefits graduate students

"They have facilities that we don't, such as good salt water holding and rearing facilities," he said.

Iwama has also forged close links with the B.C. Ministry of Agriculture, Fisheries and Food, the B.C. Ministry of Environment and other government agencies.

"Each has its own mandate, goals and mission, but these coincide with one of more aspects of our work," he said.

These linkages are good examples of the connections made by researchers throughout the Faculty of Agricultural Sciences.

The faculty has strong ties with government ministries and agencies, especially the federal Department of Agriculture and Agri-food Canada and its network of three research stations in B.C., one of which is located on campus. This connection translates into collaborative research, adjunct professorships and opportunities for students.

Agriculture also has strong relations with industry, which often funds research, and the provincial Ministry of Agriculture, Fisheries and Food provides \$150,000 for applied research partnership programs, matching support for industry initiatives.

Global links reach Nepal forests, Japan farms

High in the Himalayas, a research team led by UBC soil scientist Hans Schreier is braving earthquakes, floods and political upheaval to study an environmental crisis in the mountain kingdom of Nepal.

Many believe that deforestation by Nepal's farmers has worsened flooding in neighbouring Bangladesh and will cause a disastrous shortage of fuelwood, which is a necessity for cooking and heating in the Nepalese countryside. However, Schreier says, this is a myth.

"Everyone is saying there is massive degradation in the Himalayas, but little hard evidence exists and no long-term environmental data is available," he said.

Schreier and his colleagues are doing the first major evaluation of Nepal's resource situation, which is inextricably linked to the agricultural and forestry practices of its burgeoning population.

Funded by Canada's International Development Research Centre, the interdisciplinary study started in 1988, looking at soil erosion, deforestation, water resources, soil fertility, flooding and other problems.

Conducting research in Nepal, one of poorest nations on

earth, is not easy. There are few roads, the terrain is rugged, access is difficult and gasoline is scarce.

The research team first gathered all existing maps and aerial photographs, digitalized the

data onto computer and then assembled the information in a Geographic Information System (GIS) to analyze the various land use issues facing the impoverished nation.

They examined one particularly hard-hit watershed in more detail. Researchers walked from village to village in the watershed to interview farmers about land use practices and their personal opinions and perceptions.

Surprising results have emerged. For example, the researchers discovered that the resource with the most critical shortfall was animal feed. Fuelwood supplies were adequate. They also found that forest lands are actually growing in size due to reforestation schemes of aid agencies, but that the wrong species are being planted in the wrong locations.

"Now we have better informa-

"By giving UBC students opportunities for international exposure, graduates from our faculty will be more receptive to new ideas and will be more able to meet the demands of an increasingly global economy."

- George Kennedy

tion to see what should be done," Schreier said. "We can also project into the future to see where the worst problems will be."

Schreier's project is only one of many international links forged by the Faculty of Agricultural Sciences, which has long been involved in Third World development issues.

The faculty has also traditionally been home to many international graduate students. At last count, graduate students, post-doctoral fellows and visiting students and scholars in the faculty come from 32 countries, from Argentina to Zimbabwe.

"International students bring cultural and academic richness to our classes. They are the key building blocks on which to expand our international activities," said faculty Dean Jim Richards.

Increasingly, UBC's agricul-

ture students are being exposed to the wider world, through curriculum changes and exchange programs.

"Canada is more reliant on trade in agricultural products than ever before," Richards said. "It is critically important that graduates have a knowledge and understanding of other cultures, especially their agricultural and food sectors and how they operate."

The faculty has been particularly active in building ties with Pacific Rim countries, especially since George Kennedy, an associate professor in the Dept. of Agricultural Economics, was appointed in 1992 as director of international programs.

Last year, UBC became the first institution outside Southeast Asia to join a consortium of the region's top five universities in agriculture and natural resources. This is expected to encourage graduate student and faculty exchanges.

"This is an exciting partnership," Richards said. "UBC can provide specific expertise for the region while our students can

benefit from unique courses and knowledge available at these universities."

Another international program is the annual student exchange with the Tokyo University of Agriculture.

During a three-week stay in Japan last year, UBC students got a first-hand look at Japanese agriculture. They pulled on gumboots to plant rice, harvested tea, and visited fish hatcheries and food processing plants.

That trip was followed by a visit to B.C. by Tokyo University students and professors. They attended English classes and accompanied UBC students on field trips to cattle ranches, orchards, greenhouses and agricultural research stations.

Agriculture students are also very active in the university's Education Abroad program, with students currently studying at universities in Australia, the Philippines and the United States.

"By giving UBC students opportunities for international exposure, graduates from our faculty will be more receptive to new ideas and will be more able to meet the demands of an increasingly global economy," Kennedy said.

Faculty of Agricultural Sciences

Weeds, owls highlight environmental focus

With two pressure cookers, a propane campstove and barbecue and some copper tubing, Plant Science Assoc. Prof. Mahesh Upadhyaya has shown CP Rail an environmentally friendly way to reduce herbicide use.

The apparatus may have been simple at this first demonstration for company officials, but it caught their interest. Upadhyaya showed that very short bursts of superheated steam can effectively kill weeds on railroad rights-of-way across the country.

His work is just one of many research projects in the Faculty of Agricultural Sciences that focuses on environmental stewardship and sustainability.

"The environment has always been an issue with us because agriculture so intimately involves the physical environment, but there has been more focus on those concerns in recent years," said faculty Dean Jim Richards.

With funding from Environment Canada and CP Rail, Upadhyaya has now constructed a "steam machine" to study the relation between steam temperature and the length of exposure needed to kill weeds and their seeds.

He has found that superheated steam at 200 C kills most plants and their seeds in two to four seconds.

The research conducted by Upadhyaya, a seed physiologist, not only has the potential to cut down on herbicide use by rail-

ways, it could also reduce the use of chemicals on industrial sites and other rights-of-way.

Chemicals are still the most effective method of getting the job done — steam requires repeated applications to kill stubborn weeds down to the roots — but herbicides can leach onto private property and into nearby water sources.

"Also, the future of herbicides is uncertain, as the public gets more and more concerned about their use," Upadhyaya said. "What we set out to do is show that it is a viable option, and we succeeded."

Based on his research, CP Rail has developed steam cars that are being used in the field

with good results.

In other research, Kim Cheng, an associate professor in the Dept. of Animal Science, is leading efforts to ensure the barn owl's survival in this country.

The common barn owl is not so common in Canada. There are only 200 breeding pairs left in the

country, and all are located in the Lower Mainland and southern Vancouver Island.

True to their name, barn owls prefer to roost in the rafters of old wooden barns, especially in the colder climates of their range.

But such barns are being torn down, to make way for aluminum farm buildings or suburban housing. Meanwhile, the farmers' fields where owls hunt are being replaced by golf courses

and subdivisions.

Cheng, an expert on the genetic diversity of domestic and wild birds, is using DNA fingerprinting to see how diverse B.C.'s barn owl population is.

"We're examining the genetic structure of the local populations to see if they are in danger of inbreeding," he said.

With the help of the Stanley Park Zoological Society, Cheng's students are also putting nest boxes in rural areas of the Fraser Valley to encourage barn owls to stay in this habitat.

"We want to see if we can help stabilize the local population, but we have to be sure that there is enough food for them," he said.



Gavin Wilson photo

Mahesh Upadhyaya of the Dept. of Plant Science demonstrates the equipment he uses to expose weeds and their seeds to short bursts of superheated steam. The technique could provide an alternative to herbicides.

"The environment has always been an issue with us because agriculture so intimately involves the physical environment, but there has been more focus on those concerns in recent years."

- Jim Richards

Egg white enigma holds key to food proteins

Why do egg whites make such great meringues?

It's a seemingly simple question, but one that's stymied food scientists for decades and has surprising implications.

One researcher who is looking for an answer is protein biotechnologist Eunice Li-Chan, an assistant professor in the Dept. of Food Science in the Faculty of Agricultural Sciences.

Using protein and genetic engineering, including the site-directed mutagenesis procedure that earned Michael Smith his Nobel Prize, Li-Chan studies the functions of food proteins. It's these proteins that give egg whites their magical properties.

By learning how proteins work, researchers can create new products for use as food preservatives, research tools, and even the treatment and prevention of diseases in humans and farm animals.

"We're trying to develop methods to isolate and purify proteins, many of which scientists haven't tapped into yet," Li-Chan said.

Food science is a relatively new field that focuses on the scientific principles of manufacture, quality control, preservation, storage and development of food products.

Most of the packaged or specialty foods in your neighbourhood grocery store were developed by food scientists.

Food science is about to enter an unprecedented era with the widespread use of biotechnology, which will allow the manufacture and cultivation of so-called designer foods.

Ironically, biotechnology is the oldest trick in the cook book. As long as people have been making bread, beer and wine, they have used microorganisms to manufacture food.

"Food scientists have thought of themselves as doing biotechnology for a long



Gavin Wilson photo

Food scientist Eunice Li-Chan in the laboratory where she studies the functions of proteins.

time," said John Vanderstoep, acting head of the Dept. of Food Science.

Using genetic manipulation, plants and animals can be modified — to boost yield or improve nutritional content — much faster than with traditional breeding programs.

The public, however, has many misconceptions about genetic engineering, Vanderstoep said. An example is the controversial Flavr Savr tomato, a genetically manipulated product recently introduced in the United States.

Some feel that such products are unnatural and could have unforeseen effects on human health, but Vanderstoep says their fears are unwarranted.

"A tomato still has to come from a seed and a vine; you can't grow them in a test tube," he said.

"I think food science will continue trying to use technology to improve food products. Our first role is to produce foods that are wholesome, appealing, safe and nutritious. I don't see that changing," he said.

But as Li-Chan's work shows, the discoveries of food scientists are not necessarily limited to food production.

Some proteins found in egg whites can be purified and used

as highly valuable pharmaceutical agents, including one for the treatment of burn patients.

Other rich sources of proteins are waste products such as blood and cheese whey discarded by slaughterhouses and dairies.

Li-Chan is looking at how to change the functions of these proteins to make them more usable, creating a value-added product and solving waste disposal problems for the industry.

For example, whey contains antibodies that could be used to bolster the immune system against intestinal diseases and diarrhea, major killers in much of the developing world.

Li-Chan has recently turned to chickens as an alternative source of antibodies, injecting them with a protein vaccine that creates high amounts of specific antibodies in the yolks of their eggs.

These egg yolks could then be added to the feed of fish raised in aquaculture operations, protecting them from disease while avoiding the controversial use of antibiotics. The same could be done for calves and piglets, she said.

"There's a wide range of applications," she said.



A bird in the hand provides graduate student Lorraine Andrusiak with the information she needs for her study of the Lower Mainland's declining barn owl population.

Calendar

March 13 through March 26

Sunday, Mar. 13

Continuing Studies Course
Lantern Making Workshop. Carmen Rosen, member of Public Dream Society. Two Sundays. Botanical Garden main pavilion from 9:20am-4pm. \$125. Call 222-5203.

Friends of the Garden
Sow Seeds On Sunday. A free demonstration by members of the Botanical Garden Seed Committee. Shop in the Garden from 12-4pm hourly. Call 822-4529.

Monday, Mar. 14

B.C. Cancer Research Centre Seminar
Medical Physics In New Zealand. Shaun Baggerley, Clinical Physicist, Christchurch Hospital, Christchurch. Lecture Theatre, 601 W. 10th at 12pm. Call 877-6010.

Plant Science Seminar
Revolution In Apple Pest Management: The Scent Is In The Air. Alan Knight, USDA/OSU, MacMillan 318D at 12:30pm. Refreshments. Call 822-9646.

Literary Reading
Jancis Andrews will be reading from her short story collection: *Rapunzel, Rapunzel Let Down Your Hair*. Buchanan B319 at 12:30pm. Call 822-5122.

Faculty Development Seminar
Talking About Teaching: Increasing Participation In Large Classes. Paul G. Harrison, Botany. Three Mondays. Angus 109 from 12:30-1:20pm. Call 822-9149.

Mechanical Engineering Seminar
Tolerant Tunnel Testing. Lingzhe Kong, PhD student, Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6671.

Biochemistry/Molecular Biology Seminar
A Model For Interference In Crossing-Over. Dr. Frank Stahl, Institute of Molecular Biology, U. of Oregon. IRC #4 at 3:45pm. Refreshments at 3:30pm. Call 822-9871.

Tuesday, Mar. 15

Centre for Chinese Research Slide Presentation
Doings In The Desakota: Update On The Transformation Of The Pearl River Delta, Guangdong Province. Asian Centre auditorium from 12-2pm. Call 822-4688.

Animal Science Seminar Series
Forage Utilization Research With Lactating Cattle At UBC. Dr. J.A. Shelford, Animal Science, MacMillan 260 at 12:30pm. Call 822-4593.

Botany Seminar
Basic, Quantitative/Experimental Research Phases Of Future Ethnobotany With Reference To The Medicinal Plants Of South America. Dr. Walter H. Lewis, Biology, Washington U., St. Louis, BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Literary Reading
Her Head A Village: A new collection of stories by Makeda Silvera. Buchanan A202 at 12:30pm. Call 822-5122.

Lectures in Modern Chemistry
New Oxidation Chemistry. Dr. P. Magnus, Chemistry, U. of Texas, Austin. Chemistry 250 at 1pm. Refreshments at 12:40pm. Call 822-3266.

Cecil and Ida Green Visiting Lecture Series
Universality And Truth. Dr. Richard Rorty, prof. of Humanities, U. of Virginia. IRC #1 at 2pm. Call 822-5675.

Oceanography Seminar
15N In The Equatorial Pacific. John Farrell, Oceanography, BioSciences 1465 at 3:30pm. Call 822-3626.

Izaak Walton Killam Memorial Lecture
Artificial Thought And Emergent Mind. Dr. Ivan M. Havel, dir., Centre for Theoretical Study, Charles U., Prague. Buchanan Penthouse from 3:30-5:30pm. Call 822-5675.

Statistics Seminar
Applications Of Principal Component Analysis/Neural Networks To Oceanographic Problems. William Hsieh, Oceanography, Angus 413 from 4-5:30pm. Refreshments. Call 822-2234.

Wednesday, Mar. 16

Orthopaedics Grand Rounds
Resident Report From 1994 AAOS. Dr. R.W. McGraw, chair. VGH Eye Care Centre auditorium at 7am. Call 875-4272.

MOST Workshop for UBC Staff
Creative Problem Solving. Diane Kent; Gaylea Wong. Brock Hall 0017 from 9am-12pm. \$60. To register call 822-9644.

Trade Show at SUB
The latest in scientific equipment on display. Door prizes. Open to public. Two days. Ballroom 205 from 10am-4pm. Call 822-3456.

Izaak Walton Killam Memorial Lecture
Perspectives Of Transdisciplinary Research: A Seminar. Dr. Ivan M. Havel, dir., Centre for Theoretical Study, Charles U., Prague. Buchanan Penthouse from 10:30am-12pm. Call 822-5675.

Microbiology Seminar
A Truncated Cyclin B Gene Arrests Dictyostelium Cells In M-Phase And Causes Abnormal Fruiting Body Formation During Development. Kathy Luo, Microbiology/Immunology, Wesbrook 201 from 12-1pm. Call 822-3308.

Centre for Southeast Asian Research Seminar
Bangkok's Gendered Foodscape. Giselle Yasmeen, Geography, Asian Centre 604 from 12-2pm. Call 822-4688.

Wednesday Noon Hour Concert
Miranda Wong, piano. Music Recital Hall at 12:30pm. \$2. Call 822-5574.

Cecil and Ida Green Visiting Lecture Series
Does Academic Freedom Presuppose A Correspondence Theory Of Truth? Dr. Richard Rorty, prof. of

Humanities, U. of Virginia. Lasserre 102 at 12:30pm. Call 822-5675.

French Lecture
Le Corps Dans Le Droit D'Ancien Regime, En France, Et Ses Implications Litteraires. Christian Biet, prof., L'Ecole Normale Supérieure de Fontenay-Saint-Cloud. Buchanan Tower 826 at 12:30pm. Call 822-2879.

Canadian Studies Lecture
Gender Matters: The Construction Of Canada. Veronica Strong-Boag, Centre for Research in Women's Studies/Gender Relations, Buchanan B212 at 12:30pm. Call 822-5193.

Counselling Psychology Graduate Students Discussion Group
The "F" Word: One Man's Response To Feminism. Stephen Hume, columnist, Vancouver Sun. Counselling Psychology 102 from 12:30-1:30pm. Refreshments. Call 822-5259.

Geography Colloquium
Intimacy And Danger: Courtship In Postfarian Mexico. Bill French, History, Geography 201 from 3:30-5:00pm. Refreshments at 3:25pm. Call 822-5612.

Applied Mathematics Colloquium
Fitting A Model Of Short-Term Interest Rates To Data. Ulrich Haussmann, Mathematics, Mathematics 203 at 3:30pm. Call 822-4584.

Pharmaceutical Sciences Seminar
Once-Daily Aminoglycoside Dosing In Febrile Neutropenic Patients: What's The Evidence? Fawziah Lalji, PhD student, Clinical Pharmacy. IRC #5 from 4:30-5:30pm. Call 822-4645.

Izaak Walton Killam Memorial Lecture
Reflections On Current Intellectual Life In Czech Republic. Dr. Ivan Havel, dir., Centre for Theoretical Study, Charles U., Prague. Green College Great Hall at 6pm. Call 822-5675.

Thursday, Mar. 17

UBC Board of Governors Meeting
Held in the Board and Senate room, second floor of the Old Administration Building, 6328 Memorial Rd. The open session begins at 9am.

MOST Workshop for UBC Staff
Disability Awareness. Janet Mee. Brock Hall seminar room 0017 from 9am-12pm. Call 822-9644.

Centre for South Asian Research Centre Seminar
Creators, Consumers And The Changing Marketplace: Brasscasting In Present-Day India. Katherine Hacker, Fine Arts, Asian Centre 604 at 12:30pm. Call 822-3203/4359.

Architecture Spring Lecture Series
TBA. Sanford Kwinter, Rice University. Lasserre 102 at 12:30pm. Call 822-2779.

Biochemistry/Molecular Biology Seminar
Synthetic DNA And Biology. Nobel Prize winner Dr. Michael Smith. IRC #2 at 12:30pm. Call 822-2656.

Canadian Studies Lecture
The Conflict Between Diversity And A Uniform Citizenship. Alan C. Cairns, PoliSci, Buchanan B212 at 12:30pm. Call 822-5193.

Science One/Arts One Slide Lecture
Patterns In Nature/Art/Perception. Lee Gass, assoc. prof., Zoology; sculptor. IRC #1 at 1pm. Call 822-5552.

Botany Seminar
Mosses Of The San Juan Islands. Judy Harpel, PhD candidate, Botany. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Pharmaceutical Sciences Seminar
Calbindin And Intra-Neuronal Calcium Regulation. Dr. Kenneth Baimbridge, Physiology. IRC #4 from 11:30am-12:30pm. Call 822-4645.

Earth/Ocean Sciences Seminar
Large Amplitude Internal Gravity Wave Excitation By Atmospheric Jets. Bruce Sutherland, Physics, U. of Toronto. BioSciences 1465 at 3:30pm. Call 822-8684.

MLO Workshop
Students/Faculty In Dialogue: A Model To Acknowledge And Address Pluralism In The Classroom. Judith Lyman; Melanie Charles, School of Nursing. Scarfe 203 from 3:30-5pm. Open to students/staff/faculty. Call 822-9583.

Theoretical Chemistry Seminars
Revisiting An Old Problem: Wavefunctions, Correlations/Electron Scattering In Two-Electron Systems. Dr. N. Cann, Chemistry, Chemistry 402 at 4pm. Call 822-3997.

Physics Colloquium
Seeing Atoms And Molecules With The Atomic Force Microscope. P. Hansma, Hennings 201 at 4pm. Call 822-3853.

Statistics Seminar
A Model Based Approach To Loss Reserving. Ben Zehnwirth, Insureware, Australia. Angus 413 from 4-5:30pm. Refreshments. Call 822-2234.

Zoology Seminars
Spencer Memorial Lecture: Species Problems In The Acoustical Arthropods (Or Travels On A Cricket). R.D. Alexander, Museum of Zoology, U. of Michigan. Family/Nutritional Sciences 60 at 4:30pm. Call 822-2310.

International House Evening Social
Come celebrate St. Patrick's Day with a bit of Irish culture and wear green. All welcome. International House Gate 4 lounge at 7pm. Call 822-5021.

Distinguished Artists Series
Theodore Baerg, baritone; Rena Sharon, piano. Music Recital Hall at 8pm. \$15 adult; \$8 student/senior. Call 822-5574.

Friday, Mar. 18

Paediatrics Grand Rounds
Clinical Pathology Conference: A GI Conundrum. Dr. Mark Kovacs; Dr. J.E. Dimmick, director, Pathology, Children's Hosp. G.F. Strong Auditorium at 9am. Call 875-2307.

Health Care/Epidemiology Rounds
Responsible University Based Research In The Community. Dr. Carol Herbert, head, Family Practice; Carol Brown, exec. dir., Ray Com Community Centre, Mather 253 from 9-10am. Call 822-2772.

Architecture Spring Lecture Series
Making Things Fit. James Cutler, U. of Washington. Lasserre 102 at 12:20pm. Call 822-2779.

Occupational Hygiene Program Seminar
A Characterization Of Environmental Exposure To EMF In Pulp And Paper Mills. Maria Barroetavena, PhD student, Health Care/Epidemiology, Civil/Mechanical Engineering 1202 from 12:30-1:30pm. Call 822-9595.

Centre for Korean Research Lecture
Korea And East Asian Economic Miracle Studies. Stephen Gaggard, U. of C., San Diego. Asian Centre 604 from 12:30-2pm. Call 822-4688.

Women And Spirituality Dialogue '94
Transitions: Finding Our Way. 6-9:30pm Fri., 8:45am-4pm Sat. Vancouver School of Theology. \$20; \$10 students/seniors. Registration/info call Dr. Anthony at 822-4671.

Continuing Studies Workshop
Focusing: Overcoming Obstacles To Personal Change. Dolores Bate, dir. of the Gestalt Experiential Training Institute in Vancouver. University Hospital Detwiller Pavilion Bsm. Theatre from 7-9:30pm Fri; Sat/Sun, 10am-5pm. \$150. Enrolment limited. Call 222-5203.

Saturday, Mar. 19

Vancouver Institute Lecture
Do We Need Ethical Principles? Dr. Richard Rorty, prof. of Humanities, U. of Virginia. IRC #2 at 8:15pm. Call 822-3131.

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 March 24 issue of UBC Reports — which covers the period March 27 to April 9 — is noon, March 15.

Calendar

March 13 through March 26

Monday, Mar. 21

Plant Science Seminar
Molecular Genetic Analysis Of Seed Lipid Metabolism In A Rhabdopsis Thaliana. Ljerka Kunst, Botany. MacMillan 318D at 12:30pm. Refreshments. Call 822-9646.

Poetry Readings
Jan Zwicky/Don McKay collections. Buchanan B319 at 12:30pm. Call 822-5122.

Faculty Development Seminar
Talking About Teaching: Evaluating Students. Ellen Rosenberg, Botany. Angus 109 from 12:30-1:20pm. Call 822-9149.

Applied Mathematics Colloquium
Issues Of Stability And Transparency In Force-Reflecting Teleoperation. Dr. Tim Salcudean, Electrical Engineering. Mathematics 203 at 3:30pm. Call 822-4584.

Mechanical Engineering Seminar
Aerodynamics/Dynamics Of Several Bluff Bodies With Moving Surface Boundary Layer Control. Sandeep Munshi, PhD student. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6671.

Astronomy Seminar
The Many Phases And Faces Of Classical Novae: Fast (Cyg92) Vs. Slow (Cas93). Peter Hauschildt, Arizona State U. G&A 260 at 4pm. Refreshments. Call 822-2696/2267.

Tuesday, Mar. 22

MOST Workshop for UBC Staff
Managing Change: Organizations In Transition. Gary Harper, Brock Hall seminar room 0017 from 9am-4pm. \$60. Call 822-9644.

Animal Science Seminar Series
The Pig: Environmental Manager Par Excellence. Dr. R. M. Beames, Animal Science. MacMillan 260 at 12:30pm. Call 822-4593.

Botany Seminar
Phylogeny And Speciation In The Cultivated Cottons And Their Wild Relatives. Jonathan Wendel, Botany, Iowa State U. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Lectures in Modern Chemistry
Abzymes, Enzymes/Combinatorial Libraries. Dr. Kim Janda, Molecular Biology/Chemistry, Scripps Research Institute, La Jolla. Chemistry 250 at 1pm. Refreshments at 12:40pm. Call 822-3266.

French Colloquium
Imitation Of Troubadour Style In Medieval French, German, And Portuguese Contrafacta. A presentation of current research project. Buchanan Tower 799 at 2:30pm. Call 822-4025.

Faculty Development Seminar
Textbook Writing And Publishing. Jean L. Wilson, UBC Press; Kathy Martenson, UBC Bookstore; Kal Holsti, Political Science; Dave Pulfrey, Electrical En-

gineering; Peter Rastall, Physics. Angus 109 from 2:30-4pm. Call 822-9149.

Statistics Seminar
Self-Organized Critical Systems. Birger Bergersen, Physics. Angus 413 from 4-5:30pm. Refreshments. Call 822-2234.

Anatomy Seminar Series
Calcium Binding Proteins In The Nervous System: Where And Why? Kenneth Baimbridge, Physiology. Friedman main lecture theatre from 4:30-5:30pm. Call 822-2751.

Wednesday, Mar. 23

Orthopaedics Grand Rounds
Radiotherapy: The Orthopaedic Surgeon's Perspective. Dr. R. W. McGraw, chair; Dr. C. P. Beauchamp, speaker. VGH Eye Care Centre auditorium at 7am. Call 875-4272.

Continuing Studies Lecture
The Ambiguities Of Citizenship In Canada. Alan Cairns, Political Science. Brenda and David McLean Professor of Canadian Studies at UBC. York Room, Hotel Georgia from 12-1:30pm. \$35; \$20. Call 222-5203.

Wednesday Noon Hour Concert Series
Judith Kellock, soprano; Richard Epp, piano. Music Recital Hall at 12:30pm. \$2. Call 822-5574.

Geography Colloquium
Sub-Glacial Hydrology. Gary Clark, Geophysics/Astronomy. Geography 201 from 3:30-5pm. Refreshments at 3:35pm. Call 822-5612.

Cecil And Ida Green Visiting Professor Lecture
The Consequences Of Bacterial Attachment And Entry Into Animal Cells. Dr. Stanley Falkow, Microbiology/Immunology, Stanford U. School of Medicine. IRC #4 at 12:30pm. Call 822-5675.

Pharmaceutical Sciences Seminar
Antiretrovirals And HIV: Are Two Drugs Better Than One? Renette Dunn, PhD student, Clinical Pharmacy, IRC #5 from 4:30-5:30pm. Call 822-4645.

Thursday, Mar. 24

MOST Workshop for UBC Staff
Successful Communications Through Letters And Memos. Molly Creery, Brock Hall seminar room 0017 from 9am-4pm. \$50. Call 822-9644.

Pharmaceutical Sciences Seminar
Role Of cGMP In Cardiomyocyte Contractility. Karen McDonnell, Pharmacology/Toxicology. IRC #4 from 11:30am-12:30pm. Call 822-4645.

Canadian Studies Lecture
Aboriginal Peoples And Canadian Citizenship. Alan C. Cairns, Political Science. Buchanan B212 at 12:30pm. Call 822-5193.

AMS/Faculty Association Public Symposium
Is Our Campus In Decline? Teaching And Learning At UBC. Curtis 101 from 12:30-1:30pm. Call 822-5684.

Earth/Ocean Sciences Seminar

TOGA-TAO: The Development Of An Ocean-Atmosphere Observing System For Short Term Climate Studies. Michael J. McPhaden, NOAA/Pacific Marine Environmental Lab, Seattle. BioSciences 1465 at 1:30pm. Call 822-8684.

Faculty Development Seminar

Climbing The Academic Ladder: A Panel Discussion Designed Especially For Female Academics. Panelists: Sherrill Grace, Arts; Maria Klawe, Computer Science; Elvi Whittaker, Anthropology/Sociology. Angus 109 from 2:30-4pm. Call 822-9149.

Physics Colloquium

Molecular Genetics/Protein Engineering. Dr. Michael Smith, Biotech Lab, Hennings 201 at 4pm. Call 822-3853.

Friday, Mar. 25

Health Care/Epidemiology Rounds

Lead In Children: How Low Is Low Enough And How Do We Get There? Dr. Ray Copes, Community And Family Health, Ministry of Health. Mather 253 from 9-10am. Call 822-2772.

Paediatrics Grand Rounds

Immunology Of Allogeneic Bone Marrow Transplantation. Dr. Kirk Schultz, Paediatrics. GF Strong auditorium at 9am. Call 875-2307.

Music Concerts

UBC Symphonic Wind Ensemble. Martin Berinbaum, director. Old Auditorium at 12:30pm and 8pm. Call 822-3113.

Centre for South Asia Colloquium

Engendering Voices: A South Asian Perspective. Suma Chitnis; others. Two days. Asian Centre 604 at 12:30pm. Call 822-3703/4359.

Occupational Hygiene Program Seminar

Exposure To Ozone In The Fraser Valley. Dr. Michael Brauer, Medicine, Civil/Mechanical Engineering 1202 from 12:30-1:30pm. Call 822-9595.

Geophysics/Astronomy Seminar

The Geophysics Of Venus: Global Catastrophes On Our Sister Planet. Sean Solomon, director, Terrestrial Magnetism, Carnegie Inst. G&A 260 at 2pm. Refreshments at 1:30pm. Call 822-2696/2267.

Chemical Engineering Weekly Seminar

Wall Slip And Melt Fracture Of Molten Polypropylene. Igor Kazatchkov, grad student. Chemical Engineering 206 at 3:30pm. Call 822-3238.

Animal Care Lecture

Superpigs And Wondercorn: Genetic Engineering; Biotechnology; Ethical, Economic/Environmental Concerns. Dr. Michael W. Fox, VP, U.S.A. Humane Society. Hebb Theatre from 7-10pm. Call 822-6283.

Theoretical Chemistry Seminars

Computer Simulation Of Liquid Crystals Beyond Ellipsoid Of Revolution Models And Into The Real World—Perhaps. G. Ayton, Chemistry. Chemistry 402 at 4pm. Call 822-3997.

Saturday, Mar. 26

Continuing Studies Weekend Workshop

The Oriental Medicine Wheel Demystified: A Hands On Approach Part I. Dr. Danica Beggs, UBC Alumna of Medicine. Carr Hall

conference room from 9am-5pm. \$195. Call 222-5203.

Vancouver Institute Lecture
Diarrhea, Tuberculosis And Genetic Engineering. Dr. Stanley Falkow, Microbiology/Immunology, Stanford U. School of Medicine. 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/faculties/services. Fridays 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.

Women Students' Office

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

Duplicate Bridge

Informal game open to the public. \$2 fee includes refreshments. Wednesdays at the Faculty Club. Play begins at 7:30pm. Singles welcome but should arrive early to arrange partnerships. Call Steve Rettig at 822-4865.

Sexual Harassment Office

Questions or concerns and are prepared to help any member of the UBC community who is being sexually harassed find a satisfactory resolution. Call 822-6353.

Clinical Research Support Group

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

Dermatology Studies

Athlete's Foot. Volunteers between the ages of 18-65. Lab tests required. Reimbursement for qualified volunteers upon completion of study. Call 875-5296.

Acne Study. Must be 25 yrs. or younger. 5 visits over 12-week period. No placebo involved. Honorarium. Call 875-5296.

Psychology Cognition/Emotion Study

Seeking participants ages 21-60 for studies exploring the cognitive effects of emotions. Participation involves three 90-minute sessions spread over 1-2 weeks. Honorarium of \$30. Call Dawn Layzell/Dr. Eric Eich at 822-2022.

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.

Nitobe Garden

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

Botanical Garden

Open daily from 10am-6pm. Shop In The Garden, call 822-4529; 822-9666, the gardens.



UBC Multicultural Liaison Office

Students and Faculty in Dialogue: A Model to Acknowledge and Address Pluralism in the Classroom

March 17, 3:30pm to 5:00pm, Scarfe 203
Open to Students, Staff and Faculty
Facilitators: Dr. Judith Lynam, Melanie Charles, School of Nursing

In this student-initiated model for cross-cultural communication, students and faculty were able to deal with issues and challenges faced by both groups in culturally diverse classrooms. Facilitators will describe how the project was set up and carried out.

To register please call the Multicultural Liaison Office at 822-9583 or e-mail mlo@unixg.ubc.ca.



UBC GAZETTE

The Board of Governors has taken the following action. These items were approved at meetings held on September 16 and November 18, 1993, and January 20, 1994.

POLICIES

The Board of Governors approved the following policies and noted the President's procedures for implementation and administration. In addition, two policies have been deleted and one has been revised.

New Policies:

- (1) Donations
- (2) Vending Machines
- (3) Records Management
- (4) Environmental Protection Compliance

Deletions or Revisions:

- (1) Policy #37—Research Grants as Part Payment during Study Leave has been revised.
- (2) Policy #65—Eligibility to Hold Office in a Student Society has been deleted.
- (3) Policy #68—Student Loans has been deleted.

PROPERTY

The Board authorized the following projects to proceed with working drawings and tender:

- (1) The Institute of Asian Research
- (2) The Chan Centre
- (3) The Student Recreation Centre

The Board approved the following projects for further planning and detailed design:

- (1) School of Journalism
- (2) Earth Sciences Centre
- (3) Biotechnology Building—Phase II
- (4) The Chemical/Bio-Engineering Facility

A contract for the construction of the Morris & Helen Belkin Art Gallery was awarded to Landmark Construction.

Approval was given to go to tender to complete the unfinished areas of the Jack Bell Research Centre at the Vancouver site.

The University entered into an agreement with St. Andrew's Hall to facilitate St. Andrew's financing of the construction of a student residence on its leased property.

NAMING

The Board approved the designation of the following units:

- (1) Father David Bauer Rink—in the Thunderbird Winter Sports Centre.
- (2) Engineering High Head Room Laboratory—Adjacent to the Civil and Mechanical Engineering Building on East Mall.
- (3) Rose Garden Parkade—on N.W. Marine Drive at the interface with Main Mall.

FEES

At the request of the Alma Mater Society and the Graduate Student Society, the Board approved the following extension in the graduate student capital improvement fee and increases in undergraduate society fees as noted.

That the capital improvement fee of \$5.00 per graduate student per year be continued for a further two years, i.e. 1994-1996.

That the Student Fee for the Education Students Association be increased from \$2 to \$10 for the session commencing September 1994.

That the Student Fee for the Engineering Undergraduate Society be increased from \$27 to \$37 for two academic years effective the session commencing September 1994; and further that the special additional levy in the amount of \$2 be extended for the academic year 1995-96.

That the Student Fee for the Medical Undergraduate Society be increased as follows:
from \$28 to \$38 for first and second year students; and
from \$38 to \$48 for third and fourth year students

This increase will take effect for the session commencing September 1994

SENATE

The Board approved the establishment of the following as recommended by Senate.

- (1) The West-East Centre for Microbial Diversity.
- (2) The Asa Johal Chair in Paediatric Oncology
- (3) The Norman Keevil Chair in Mineral Exploration
- (4) The Man in Motion Foundation Chair in Spinal Cord Research
- (5) A Chair in Biomedical Ethics
- (6) The Chair in Feminist Legal Studies

APPOINTMENTS

The Board approved the following appointments and a reappointment:

- (1) Athletic Council for the term ending May 31, 1994.

Students

Bill Dobie
Michael Caruth
Tim Lo
Roger Watts
Norma Powell

UBC Staff and Faculty

Bonnie Gordon
Trevor Heavor
Ian Burgess
Leanne Jacobs
Bob Schutz (ex officio)

Alumni

J. Lewis Robinson
Trish Smith
Roma Gopaul-Singh
Sandra Mah

Ex officio (non-voting)

- K. D. Srivastava
Robert Philip
Michael Kelly
- (2) Dr. Sheila M. Innis of the Department of Paediatrics, Faculty of Medicine to the Board of Trustees of the Faculty Pension Plan.
 - (3) Mr. Kenneth M. Bagshaw was reappointed as the Board's representative to the Hamber Foundation for a five year period from December 16, 1993.
 - (4) Mr. Peter W. Ufford to the Board of Directors of the UBC Real Estate Corporation.

OTHER

The Teacher Education Affiliation Agreement between UBC and BCIT with respect to Industrial Education was ratified.

The Board exercised the direction given to it under the wills of Walter H. Gage and Elsie M. Harvey by directing that the income from the bequests to the University in these wills be used in support of the Education Abroad program for undergraduates.

The Board designated the week of October 9-15, 1994 as UBC Health Sciences Week.

Amendments to The University of British Columbia Faculty Pension Plan were approved.

News Digest

UBC's Chair in Women and the Law has been renamed to better reflect the issues involved.

Now called the Chair in Feminist Legal Studies, the name change reflects a wider range of inquiry than issues explicitly involving women, such as sexual assault, explained Susan Boyd, who was appointed to the chair in July, 1993.

"Feminist scholars working in feminist legal studies have contributed to the rethinking of a wide variety of legal subjects including taxation law, contract law and child welfare law, none of which are solely of relevance to women," she said.

Boyd, whose research interests include feminist theories of law and feminist perspectives on family law, added that the chair's new name signifies UBC's commitment to supporting and producing knowledge in feminist legal studies.

The \$1-million chair was endowed through the fund-raising efforts of UBC's A World of Opportunity campaign and a matching grant from the provincial government.



Boyd

If you are an actively employed member of the UBC Staff Pension Plan, you'll be interested to know that Canada Pension Plan (CPP) rates and covered earnings have increased for 1994. This affects the amount you pay into CPP and the UBC Staff Pension Plan.

The 1994 CPP maximum covered earnings is \$34,400, an increase of \$1,000 from 1993. The 1994 CPP covered minimum is \$3,400, which means individuals earning \$3,400 or less in 1994 do not pay into CPP.

The employee contribution rate to CPP is 2.6 per cent, up from 2.5 per cent in 1993. If you earn \$34,400 or more in 1994, you will pay a maximum of \$806. The university contributes a matching amount.

You contribute 3.2 per cent of the portion of your earnings that are covered by CPP to the UBC Staff Pension Plan, and five per cent of the portion that is not covered. UBC pays 8.2 per cent and 10 per cent respectively.

If you would like more information on the plan, call 822-8646 or 822-8986.

UBC student Alison Woods took first place last month in the public speaking competition held during the Western Canadian debating championships hosted by the UBC Debating Society.

Woods won the competition with a speech on self-image and public appearance. The UBC Debating Society meets Mondays in Buchanan B214 and Thursdays in Buchanan A205 at 12:30 p.m. New members are welcome.



Abe Heffer photo

Finishing Touch

Student Debra Carlson puts the finishing touches on a human torso in her third-year sculpture course taught by Fine Arts Associate Prof. Richard Prince.



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in Buchanan Penthouse

Reflections on Current Intellectual Life
in Czech Republic
Wednesday, March 16 - 6:00 PM
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CANADA'S LARGEST UNIVERSITY CONFERENCE CENTRE

Clinics treat mood disorders

by **Connie Filletti**

Staff writer

People suffering from severe mood disorders may find hope at UBC's new Mood Disorders Clinical Research Unit.

The 15-bed primary and tertiary care facility is the latest addition to the Dept. of Psychiatry's Mood Disorders Program which also includes the Depression Clinic, Seasonal Affective Disorder Clinic, the Bipolar Clinic and the Geriatric Mood Disorders Clinic.

The in-patient unit, which opened its doors on Jan. 13 in the Detwiller Pavilion of Vancouver Hospital and Health Sciences Centre (UBC site), specializes in the assessment, treatment and research of mood disorders such as clinical depres-



*Depression is not just all
in your mind*

sion and bipolar disorder, commonly known as manic-depressive illness.

Statistics indicate that mood disorders are common medical conditions affecting one in seven people at some time in their lives. And although they are among the most treatable of all psychiatric illnesses, mood disorders remain under-treated, said Dr.

Lakshmi Yatham, medical director of the unit and an assistant professor of psychiatry.

"People often won't pursue treatment because they don't realize that depression is an illness, or because of the stigma attached to mental illness," he explained. "Among patients who are treated about 60 to 70 per cent of them respond to a single anti-depressant."

The unit is playing an active role training health care students and offering continuing education programs in the latest developments in mood disorders to practicing professionals throughout B.C.

Several research initiatives are also underway including the evaluation of new medical and psychological treatments for both depression and bipolar disorder.

Drover

Continued from Page 2

follow his logic about asymmetry. The asymmetry about which Steiger seems to be concerned is survey methodology. The asymmetry about which female faculty are concerned relate to the numbers of men and women teaching at UBC, professorial rank, salary differentials, campus security, and classroom behaviour. As I see it, the survey is the whisper of small

voices of reason, not the potentially harsh hand of authority, as he seems to imply.

Another inconsistency is Steiger's conclusion that the pro-feminist tolerance which presumably otherwise reasonable men manifest toward writers like Filletti and Ledwitz-Rigby has given rise to a situation that now borders on anti-male abuse. What empirical evidence he has for drawing such a sweeping

comment about "other" men or about the linkage between such tolerance and the margins of anti-male abuse is not revealed. Instead, one is left with the distinct impression that the linkage is so self-evident that the burden of proof must fall on those who are sceptical about the author's logical proclivities.

Glenn Drover
Professor
School of Social Work

TRIUMF

Continued from Page 1

funding for TRIUMF so that its 380 staff members can put the KAON decision behind them and move on to new challenges.

"Ottawa has indicated its support for TRIUMF's future, but so far we haven't received any of the

necessary long-term commitments," he told the 400 people, mostly TRIUMF employees, who rallied in the facility's main experimental hall March 1.

"We're now counting on the government for our future," he said.

Critics of the federal govern-

ment's decision to scrap KAON fear it is a blow to B.C.'s high-tech industry and will result in the loss of highly-trained scientists who will be forced to seek work outside Canada.

One of the first to go may be Paul Knowles, a University of Victoria graduate student completing his PhD thesis at TRIUMF.

He told the rally that the KAON decision may go down in history as "my generation's Avro Arrow," a reference to the Canadian jet interceptor scrapped by the federal government in 1959. The decision crippled the aeronautical industry and prompted a flight of Canadian scientists and engineers to the U.S.

In the budget, the government said that TRIUMF would receive a funding increase this year of \$4 million to help it stabilize operations while the facility is "renewed and redirected."

But Vogt said that even with this year's funding hike, TRIUMF faces "tremendous financial instability."

In recent years, TRIUMF has received about \$20 million annually in long-term base funding, which is not even enough to cover staff salaries, Vogt said.

"We've been at a standstill for years while facing interminable delays with the KAON decision. We need an increase in funds, closer to \$40 million per year, to start new projects," he said.

Vogt hopes to leave a revitalized TRIUMF behind as a legacy. After serving for 13 years as TRIUMF director, he turns 65 later this year and will retire.

"The TRIUMF board is searching for a new director," Vogt confirmed. "It's not the federal government who makes the appointment."

Vogt said that after his retirement he "expects to have some fun at TRIUMF" as a researcher.

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(Discussion period to follow)

Hebb Theatre, University of British Columbia
Vancouver, British Columbia

Forum

Forging new partnerships

by Ronald MacGregor

Ronald MacGregor is head of the Faculty of Education's Dept. of Visual and Performing Arts in Education. The following is an excerpt from his keynote address at a forum in Nova Scotia to develop strategies to strengthen links between the arts and the community.

At first thought, it may seem paradoxical to be speaking of expanding partnerships, at a time when the departments of Music, Theatre, and Costume Design at Dalhousie University are threatened with extinction, and attention is more likely to be focused on survival than on outreach.

In such circumstances, having someone other than those directly involved come to your defence right away enhances chances of survival. But, in the long run, as Chaos Theory enthusiasts will recognize, disappearance doesn't necessarily mean lost for all time; if there is a need for something, it will always emerge, albeit in a different context.

That may be cold comfort to those who are actually caught up in the move to eliminate those departments. They are no doubt more interested in ways in which they may draw attention to what is being lost in such a closure. But, let us assume, painful though it may be, that the worst happens and some new arrangement has to be made. More partnerships are founded out of necessity than are entered into voluntarily.

Several examples of how not to do this can be found in a report from the federal Task Force on Professional Training for the Cultural Sector commissioned in 1991. The report is one prolonged whine, and appears to set out to alienate everyone not part of the arts community. The implied message is "hurry up and support us, so that we can continue to do as we wish." The arts community, instead of using this document to initiate partnerships with arts educators, has built a wall around itself.

In considering what kinds of partnerships might be possible, the fundamental point is that partnerships must be presented so as to accommodate stakeholders and patrons equitably: or, to put it crudely, you have to give some to get some. The questions are straightforward:

- What's in it for me? There is no point in undertaking a partnership to which you are less than committed. In no time, it will become a millstone round your neck.

- What's in it for us? As members of a group or organization, you will wish to derive something from the partnership that will make the organization stronger. If independ-

ence is what you most value, a partnership is not for you.

- What's in it for them? The ability to put oneself in the other party's shoes, and to consider the arrangement from the partner's perspective, makes negotiating easier.

- What does each party bring to the transaction? Each party has resources that the other has not, but which, combined, should open up a range of new possibilities.

- What happens if things go sour? By making clear each party's contribution and limits at the beginning, the withdrawal of one party from the agreement can be arranged without undue frustration.

For businesses or bodies not directly related to the arts world, partnerships with the arts offer exposure to a different mindset, and the chance to focus on a line which is not necessarily the bottom one. Sponsorship permits an organization to acquire a reputation as an adventurous patron, and benefit from the publicity that results from successful performance by the sponsored group.

For arts groups, the rewards of successful partnership may be financial, but are not limited to that. Arts groups may receive valuable assistance in the administrative running of their companies, or be given space for exhibition, or provided with catering services at events.

In their book *Partnerships for Improving Schools*, B. Jones and R.W. Maloy identify four kinds of businesses: those that take high risks for quick returns; those where risks are low, and team playing is encouraged; those where investments are made in the knowledge that dividends will not appear for years; and those where bureaucracy, and the observance of rules are important.

Obviously, one should shop around to find a compatible partner. When one does, it is important not to jump too quickly to conclusions about the role each partner is to play. For a partnership to be co-operative, rather than dependent, one should negotiate a truce over roles until all the possibilities have been examined.

By keeping options open, unanticipated possibilities may be discovered and the sense of being locked into an arrangement, delayed.



Ronald MacGregor

Correction

The Centre for Research on Economic and Social Policy was incorrectly named in Jon Kesselman's Forum article in the last issue of UBC Reports.

UBC, Children's Hospital collaborate to set up child health research facility

by Connie Filletti

Staff writer

UBC and B.C.'s Children's Hospital (BCCH) will establish an academic research institute in child and family health. A proposal to establish the institute was passed by UBC's Senate last month.

The institute will provide a mechanism for facilitating collaborative research undertaken by members of the university and the hospital, said Dan Birch,

vice-president Academic, and Provost.

"This partnership reflects the increasing need to create clear linkages and networks between academic institutions and health care centres in the community, and will ensure the highest possible standards of scientific excellence in all activities related to child health research," he said.

Research activities of the institute will include identifying

major problems affecting children, mothers, babies, women and families, said Dr. David Hardwick, associate dean of Research and Planning in the Faculty of Medicine.

"This will complement adjacent programs at B.C.'s Women's Hospital and Health Sciences Centre," he added.

Approximately \$10 million in annual ongoing grants provided by the BCCH Foundation will fund the institute during the next five years.

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 March 24, 1994 issue of UBC Reports is noon, March 15.

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UNIVERSALITY AND TRUTH

Tuesday, March 15 at 2:00 PM

Woodward Instructional Resources Centre, Hall 1

DOES ACADEMIC FREEDOM PRESUPPOSE
A CORRESPONDENCE THEORY OF TRUTH?

Wednesday, March 16 at 12:30 PM

Lasserre Building, Room 102

DO WE NEED ETHICAL PRINCIPLES?

The Vancouver Institute Lecture

Saturday, March 19 at 8:15 PM

Woodward Instructional Resources Centre, Hall 2

STANLEY FALKOW

Professor of Microbiology and Immunology
STANFORD UNIVERSITY
SCHOOL OF MEDICINE

THE CONSEQUENCES OF BACTERIAL ATTACHMENT
AND ENTRY INTO ANIMAL CELLS

Wednesday, March 23 at 12:30 PM

Woodward Instructional Resources Centre, Hall 4

MEDICAL GRAND ROUNDS AT VGH

Thursday, March 24

DIARRHEA, TUBERCULOSIS AND
GENETIC ENGINEERING

The Vancouver Institute Lecture

Saturday, March 26 at 8:15 PM

Woodward Instructional Resources Centre, Hall 2

Women's track team strong contender for national title

by Abe Heffer

Staff writer

After winning its first Canada West team championship in 15 years, the women's UBC track and field squad is now gunning for its first national title.

Eleven competitors, led by Lori Durward and Nadine Nembhard, will represent UBC at the Canadian Interuniversity Athletic Union (CIAU) track and field championships March 11-12 in Edmonton.

"Almost all our athletes registered personal best performances at last month's Canada West championships in Winnipeg," said UBC track and field coach Carmyn James. "We were particularly strong in the relay events."

The women's team won the four-by-400 and four-by-800 metre events and placed second in the four-by-200 metre relay.

"At last year's CIAU championships the women finished third, with a team that didn't include either Durward, who had taken the year off, or Nembhard, who is in her first year," said James.

"The team is now definitely ready to challenge for the national championship."

Durward won the 1,000-metre and 1,500-metre races at the Canada West championships, and was also part of the winning 800-metre relay team. Nembhard won the 600-metre event.

The men's track and field team



Shiebler



Steve Chan photo

Runner Lori Durward is one of 11 competitors representing UBC at the Canadian Interuniversity Athletic Union track and field championships in Edmonton.

placed third overall in Winnipeg. Led by Jeff Shiebler, a winner in the 1,500- and 3,000-metre races at the Canada West competi-

tion, the men are aiming to improve on their sixth-place showing at last year's CIAU championships.

People

by staff writers

Diver **Paige Gordon** of West Vancouver has been named 1993 Sport B.C. senior athlete of the year by a panel of British Columbia sportswriters and broadcasters.

Gordon, a second-year Arts student, beat Olympic hockey player Paul Kariya and rower Derek Porter in the voting.

Gordon, who is currently ranked fourth in the world, won a medal in every national and international event she entered last year.



Gordon

••••

Political Science Prof. **Richard Johnston** has been named William Lyon Mackenzie King Visiting Professor of Canadian Studies at Harvard University.

Beginning this fall Johnston will teach Canadian politics and will also work at the Center for International Affairs.

Johnston, a UBC graduate who received his PhD from Stanford University, has taught at UBC since 1977. His research interests include Canadian and comparative political behaviour, party systems and voter alignments, and public opinion and public policy.

He is the principal investigator for the 1993 Canadian election project, a major study of public opinion and voting, funded by the Social Sciences and Humanities Research Council of Canada.

••••

Sid **Katz**, professor of Pharmacology and executive director of Science World, was recently honoured by the Royal Society of Canada with the McNeil Medal for the Public Awareness of Science.

Established in 1991, the award recognizes outstanding ability to promote and communicate science to students and the public.

Katz, a member of UBC's Faculty of Pharmaceutical Sciences since 1975, was instrumental in the development of Science World, B.C.'s only science centre, and the Regina Science Centre in Saskatchewan.

Katz serves as a medical science commentator on national radio and television and was a vice-president of the Canadian Science Writers' Association.

The McNeil Medal for the Public Awareness of Science was presented to Katz at an awards celebration dinner at Science World on March 3.



Katz

Landscape architecture students propose campus design alternatives

by Gavin Wilson

Staff writer

Imagine a tramway transporting students down Main Mall, artificial wetlands attracting waterfowl to campus and student housing surrounded by forests.

The students of Landscape Architecture 405 did. They developed a 132-page proposal outlining three design alternatives for the south campus as part of their course work — producing a document that has impressed even veteran municipal planners.

The project was not just an academic exercise. The students and their professor hope it will be seen as a significant contribution to the ongoing debate about future development of the area.

"We're proud of it. It shows that students can be the source of incredible creativity and interesting insights," said Patrick Condon, the class instructor and director of the Landscape Architecture Program.

Public debate over development plans for the south campus last summer gave Condon the idea for the project.

He believes the various pro-

and anti-development sides in the dispute shared common ground despite their differences.

Everyone wanted a better campus, one that could be enjoyed by the UBC community and people in the rest of the province, he said. And all agreed it should be "sustainable," even if they didn't agree on what that meant.

"Everyone wanted what was best for UBC, what was different was where they placed their priorities," Condon said.

His class made a list of design objectives that were generally agreed on and then ranked them in different orders.

One group was told to provide housing for all members of the UBC community in a wide range of incomes.

They envisioned a township with housing for 25,000 people and five million square feet of research, office and commercial space that takes full advantage of the ocean views.

Another group prepared to make UBC an international leader in environmental stewardship and sustainable development using south campus as a model.

Here, the forest remains en-

tirely intact, houses use passive solar heating, a tram line links the area with the main campus, and stormwater runoff is collected in ponds for reuse in irrigation.

The third group sought to improve and extend the sense of place of UBC campus for the benefit of students.

The group's plan includes a major international think tank, a forest village of low-density housing, and orchards of fruit and nut trees that reflect the area's agricultural tradition.

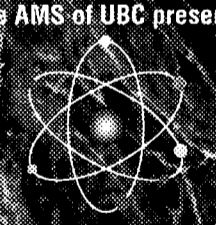
"This really presents UBC with a tremendous opportunity to demonstrate just how sophisticated and progressive an institution it really is," he said.

"The challenge is to strike a balance between the many good, but in some cases apparently contradictory, objectives for the land."

The 13 students who prepared the report were Tom Awram, Valerie Chartrand, Michael Doll, Wendy Lee, Jason Kuok, Juliette King, Michelle Lefebvre, Kenneth MacKenzie, Jeffery Pain, Nicola Roe, Jason Yee, Steve Watt and Heather Wooldridge.

Copies of the report can be obtained from the Landscape Architecture Program at 822-4481.

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Spotlight stays on Nobel winner Smith

by Gavin Wilson

Staff writer

The tributes continue to pour in for UBC's Nobel laureate Michael Smith.

Simon Fraser University recently announced it will present Smith with an honorary degree at its fall convocation Oct. 7.

Meanwhile, a gala reception and dinner to honour B.C.'s first Nobel winner is planned for April 20 at the Hotel Vancouver.

The event, called Celebrate Science!, will highlight the importance of science and technology in B.C. as well as salute Smith's Nobel Prize in chemistry.

Prominent federal, provincial and municipal politicians are expected to attend, as are leaders of both the science and business communities.

The dinner is co-hosted by UBC, the Science Council of British Columbia, the B.C. Chamber of Commerce and the Business Council of B.C.

Event organizers hope the evening will be not only a celebration of excellence, but will also raise awareness of science and technology in education and emphasize its strong association with business and the provincial economy.

It is also intended to generate support for the Michael Smith Endowment Fund, which promotes science education, the participation of women in science, and schizophrenia research.

Tickets are \$85 per person, \$850 for a table of 10 or \$800 for a table of 10 booked before April 6. Tickets are available by mail from Celebrate Science! c/o 302-1107 Homer St., Vancouver,



Geoff Curzon photo

Biochemistry Prof. Michael Smith spoke to secondary school students who attended Science Day at UBC on Feb. 16. More than 80 students from across the Lower Mainland toured the campus and discussed UBC's science programs with faculty members. Science Day was launched in 1993 by the School and College Liaison Office and the Faculty of Science to promote science education.

B.C., V6B 2Y1, or by phone at 681-1788. For more information, call 822-2028.

Meanwhile, Smith is giving his first on-campus lecture, open to all members of the university community, since receiving his Nobel Prize.

It is an opportunity to hear about the work leading up to the prize and the importance of his discoveries to modern biology and medicine.

The lecture is at 12:30 p.m. Thursday, March 17, at Woodward Instructional Resources Centre lecture hall 2. Admission is free.

Ministerial Visitors



Martin Dee photo

Community and Regional Planning Prof. Setty Pendakur, left, speaks with Jackie Pement, minister of Transportation and Highways, during the minister's visit to UBC March 3. Pement met with Axel Meisen, dean of Applied Science, and representatives from other areas including Geography, Commerce and Business Administration, and Civil and Mechanical Engineering.

Energy, Mines and Petroleum Resources Minister Anne Edwards, far right, visited the Pulp and Paper Research Institute of Canada while on campus March 3. With her are, l-r, Prof. Paul Watkinson, head of Chemical Engineering; Clive Brereton, associate professor, Chemical Engineering; Martha Salcudean, associate vice-president, Research; and graduate student James Muir. She also attended a round table discussion with faculty members.



Martin Dee photo



Stephen Forgacs photo

Aboriginal Affairs Minister John Cashore, at left with Faculty of Arts First Nations advisor Hilda Green, met with UBC President David Strangway, Faculty of Arts representatives and Museum of Anthropology staff February 28. He later attended a presentation by First Nations and faculty representatives on First Nations programs and projects at the longhouse.

Major Roads Network Study

A study is underway to review the road system feeding Point Grey (SW Marine Drive, NW Marine Drive, Chancellor Boulevard, 16th Avenue, and University Boulevard) as it relates to current and possible future volumes of resident and commuter vehicles, public transit, bicycle and pedestrian traffic.

The goal of the study is to generate a Road Network Master Plan for arterial roads on Point Grey (west of the City of Vancouver boundary).

The study is jointly funded by the University of British Columbia and the Ministry of Transportation. The Project Committee is composed of members of the University Endowment Lands, UBC, Ministry of Transportation, GVRD, and the City of Vancouver. The study is expected to be completed in July, 1994.

Please use the questionnaire to ensure that your concerns are heard. Comments should be forwarded to Andrew Brown, University Planner, 2210 West Mall, Vancouver, B.C., V6T 1Z4. Phone: 822-8228, Fax: 822-6119. A public presentation will be scheduled in mid-May to summarize preliminary findings and present opportunities for further discussion. Thank you for your assistance.

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