

UBC REPORTS

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Legal experts plan war crimes tribunal

by Charles Ker

Staff writer

Top international policy-makers are preparing to meet in Vancouver later this month to discuss options for prosecuting alleged war criminals in the former Yugoslavia.

"We don't know as yet whether a permanent court or an ad hoc tribunal will be established but clearly some action must be taken quickly," said UBC Law Prof. Peter Burns, a member of the United Nations Committee against Torture and Cruel and Inhuman Punishment.

The meeting, scheduled for March 22-27, is being organized through the Vancouver-based International Centre for Criminal Law Reform and Criminal Justice Policy. A joint initiative of UBC, Simon Fraser University and the Society for the Reform of Criminal Law, the two-year-old centre works with the UN Commission on Crime Prevention and Criminal Justice.

Close to 50 leading experts from more than 30 countries are scheduled to attend. Participants are specialists in the administration of domestic criminal law and justice as well as public international law and international criminal law.

The significance of the Vancouver meeting is underscored by the April 13 deadline which the UN Security Council has set for the presentation of a draft plan creating an international tribunal.

Vincent Del Buono, president of the International Centre, said a number of UN member states have already submitted their own draft proposals.

"The purpose of this meeting is to examine these drafts and make recommendations as to which of them should be incorporated into a statute," he said.

Del Buono added that an 'ad hoc' tribunal might not be a full-time entity, rather one which could be struck whenever situations warrant.

Aside from the court's structure and composition, other issues to be dealt with include court jurisdiction, trial procedure, collection of evidence, the transfer of accused persons to the court, and sentencing.

Since it was established late in 1992, a UN Investigative Commission of Experts has received several thousand pages documenting alleged "grave breaches" of the Geneva Conventions in the territory of the former Yugoslavia since 1991.

These breaches include: wilful killing; "ethnic cleansing" and mass killings; torture; rape, pillage and destruction of civilian property; destruction of cultural and religious property, arbitrary arrests, forcible deportation, detention and abuse during detention; discriminatory dismissal from employment and harassment; attacks on relief personnel and vehicles; and attacks on journalists.

The commission noted that while reports show breaches of international humanitarian law have been committed, tangible evidence on these violations must be secured in the form of testimonies, written statements, identification of victims, forensic reports, films, photographs and maps locating alleged crimes.

Del Buono said the report of the Vancouver meeting will go to the UN Secretary General in early April; to the UN Commission on Crime Prevention and Criminal Justice in mid-April; and, to the May meeting of the International Law Commission in Geneva.

The centre is one of eight UN crime prevention and criminal justice

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Charles Ker photo

Nitobe Gardener

Kitada Satoshi is one of three pruning experts from Japan working to restore UBC's Nitobe Garden. The garden has been undergoing renovations for five months and is scheduled to re-open April 1.

New clue to Parkinson's found

by Connie Filletti

Staff writer

UBC scientists have discovered that a substance which protects nerve cells in the brain is depleted in people suffering from Parkinson's disease.

The absence of the substance, basic fibroblast growth factor, may result in the death of the nerve cells, which is the cause of the disease, says Dr. Patrick McGeer, a professor emeritus of Psychiatry.

"In my 30 years of research on Parkinson's disease, this is the first truly solid lead I have seen that might eventually yield an effective treatment," McGeer said.

Parkinson's disease is a chronic nervous disorder caused by the progressive death of nerve cells — called substantia nigra neurons — located deep in the brain stem, McGeer explained. The cells also supply the neurotransmitter dopamine to other neurons in the brain.

The researchers reported that basic fibroblast growth factor, normally present in high concentrations in these neurons, was found in less than one-twentieth as many neurons in Parkinson's patients as in people without neurological disease.

"This depletion was far more drastic than could be accounted for by the loss of cells carrying dopamine," McGeer said.

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Female MBAs earn less

by Abe Heffer

Staff writer

A study of MBA graduates from UBC suggests that female managers have made little or no progress over the last 20 years in bridging the wage gap with their male counterparts.

"The results indicate that women who graduated with an MBA from UBC earn, on average, 77 per cent of what their male colleagues earn," said Commerce and Business Administration Assistant Prof. Nancy Langton, who surveyed almost 800 MBA graduates.

The average salary for men currently working full-time is \$70,468 and the average salary for women with full-time jobs is \$54,189, said Langton.

"Despite the perceived inroads that have been made in the area of pay equity, this survey would suggest that sex discrimination is as prevalent today as it was some 20 years ago," she said.

The survey, which had a 53 per cent response rate split fairly evenly between men and women, was sent out to students who graduated between 1970 and 1991.

"When comparing the salary scales among men and women employed in similar positions during that period, the wage gap is relatively stable," she explained.

Langton said that in understanding the wage gap, it's important to note that there are a number of differences between men and women in this sample that may contribute to it.

For example, the questionnaire revealed that, on average, men have been out of school

longer, which means they have had more experience in the workforce than women. Men work slightly more hours on average and are more likely to have additional educational experience than women.

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Langton

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Letters

Disabled still denied access

Editor:

We, as a university, are trying to establish ourselves as a centre of excellence, with accessibility for all. Why, then, is the absolute minimum building code standard being used when it comes to providing access for people with disabilities?

Cases in point:

The David Lam Management Research Centre, which opened last April. The ramp inside the building for the forum area is too steep and very narrow for wheelchairs; a conference room has only stairs; the elevator for the split-level library does not go to the second floor.

Green College residences. A person in a wheelchair could live only on the main floor because there is no elevator to the second floor. An able-bodied person living on the second floor could not be visited by a friend in a wheelchair or, possibly, an elderly relative.

These examples are in addition to standards that fall short in existing buildings around the campus, which immediately require proper wide ramps at a 20-to-1 ratio, better signage and other improvements to eliminate barriers for people with disabilities.

Neither the National Building Code nor the B.C. Building Code comes close to barrier-free design. In most cases, wheelchair ramps are too steep and narrow for all but very low-level paraplegics who have good upper arm strength.

How would an able-bodied person feel if he or she had to trust his or her personal safety to total strangers on a daily basis? This happens every time a disabled person is confronted with physical barriers: a steep ramp, a doorknob, a curb, or an obstruction on the sidewalk.

Independence cannot exist if we do not remove these barriers. We are trying to establish ourselves as a school of excellence and an equal opportunity employer, but

currently, this "equal" opportunity exists only if you do not have a mobility, visual or hearing impairment.

If anyone wants more information on barrier-free design they can call the Disability Resource Centre or Canadian Barrier Free Design, 986-2636. This company has worked on design problems for McDonald's and Hongkong Bank.

Barb Bruce

Russia meeting points to need

Editor:

A symposium, Eastern Europe and Russia: a perspective, which I co-ordinated for February 13 at UBC, drew an interesting group of people which made for lively discussions.

I appreciated the support of the chairman of the Slavic Area Committee, Dr. Robert North, of the Dept. of Geography. The goal of the symposium was to raise the level of awareness of the need for an Institute of Slavic Studies which would act as an umbrella organization, co-ordinating academic degree programs for undergraduates and graduates, as well as responding to the needs of the business community in this very rapidly changing area.

This approach would facilitate funding from the three levels of government, as well as private resources. Plans are underway for next year's symposium, which will be held in February, and which will focus on what has happened in Eastern Europe and Russia in 1993. Anyone wishing to participate should contact me at the Law Library at 822-4238 or by fax at 822-6864.

Jane Latter
Co-ordinator
Eastern Europe and Russia:
a perspective

Law

Continued from Page 1

institutes working in Japan, Costa Rica, Italy, Finland, Uganda, Saudi Arabia and Australia. It studies and prepares proposals on all aspects of international

criminal law and the administration of criminal justice and makes recommendations for reform in these areas.

Law Dean Lynn Smith, Profs. Christine Boyle, Robert Diebolt

and Burns have all participated in managing the centre.

The centre has undertaken projects in domestic violence, the future of corrections and international curriculum development.

Disease

Continued from Page 1

He added that previous work in animals by other research teams has shown that basic fibroblast growth factor rescues neurons from the toxic effects of MPTP, a street drug that has caused Parkinson's disease in young drug abusers.

"Current drugs do not prevent continuing death of neurons," McGeer said. "What we need to do is find ways of protecting or even stimulating these neurons. We now have a hopeful line to pursue in this area."

The project was a collaboration between McGeer, UBC co-investigators Dr. Edith McGeer and Dr. Douglas Walker and Japanese scientists at Shiga

University and Takeda Pharmaceutical Co.

Results of the study were published in the February issue of the international journal, *Neurology*.

Funding was provided by the Japan Foundation for Aging and Health, the Medical Research Council, the Parkinson Foundation of Canada and the Alzheimer Society of B.C.

RCMP cast doubt on reported sex assault

University RCMP are urging women on campus to exercise caution, especially at night, even though a report of a sexual assault near the Main Library has been thrown into doubt.

A woman had earlier told police she was sexually assaulted on the evening of March 1 as she walked alone from the Main Library to the bus loop.

Two days after making a public statement on the alleged assault, RCMP issued a news release saying they had been "unable to substantiate the event... (it) would appear to be unfounded."

Police said the alleged victim had given them a false name, address and telephone number. They added that they could not confirm she was a UBC student, as she had claimed.

Evidence gathered during the police investigation revealed "significant inconsistencies" that led them to believe the reported incident did not take place at the time or place stated by the victim, said S.Sgt. Bern Jansen.

Wage

Continued from Page 1

"When we control for those types of differences between men and women, we find that women earn 86 per cent of the wages that men in this study earn," said Langton.

Langton said she thought the survey would have shown that the wage gap between men and women would be closing, especially considering the similar skills that the graduates took

into the workforce and the similar nature of the jobs they landed.

"The current wage gap, as determined by the survey, exists in similar jobs in the same industry," said Langton. "In an upcoming survey, I will attempt to determine if a wage gap exists between men and women at the same firm doing similar jobs."

"What we may find, is that men are working for higher-paying firms."

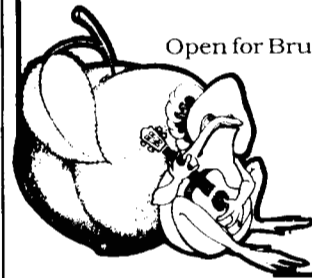
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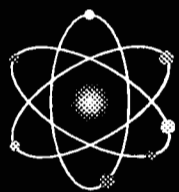
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UBC REPORTS

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Flying Fists

Thunderbirds quarterback Vince Danielsen warms up on the speed bag in the War Memorial Gym weight room. Weight room membership, which currently stands at 1,849, is open to all faculty, staff and students, as well as the public. The weight room will likely be housed in larger quarters in the near future and campus recreation co-ordinator Sonya Lumholst-Smith says when that happens, it will be outfitted with a women's strength and conditioning circuit in an effort to attract more female participants to the program.

Abe Heffer photo

Parent participation key to Native learning: report

by Charles Ker

Staff writer

Coyote, in Native folklore, is known as the "trickster of learning." The story goes that long ago, when

mountains were the size of salmon eggs, Coyote lost his eyes while trying to impress some 'human people' with a trick.

Taking pity on Coyote were Mouse and Buffalo, each of whom gave Coyote one of their eyes. Coyote, however, was no better

off with the optical mismatch and continued stumbling along blindly.

How does this apply to the educational history of First Nations children?

"I've purposely left that open for interpretation," said Verna Kirkness,

director of UBC's First Nations House of Learning.

The Coyote Eyes tale is included in her new book, *First Nations and Schools: Triumphs and Struggles*, which traces the history of First Nations education in public, separate, band and federal day schools across Canada.

Apart from giving an historical overview of First Nations education, the publication presents findings of a survey of 158 schools which Kirkness conducted in 1991.

The illustrated 130-page book is the first comprehensive report to look at First Nations programs and courses and how they have been developed over the last decade.

Although progress has been made in terms of increased academic achievement and a heightened sense of cultural awareness, Kirkness points out there is

still much to do.

"It is obvious that the missionaries and both the federal and provincial governments have failed in 300 years to administer an effective educational program for First Nations children," she

writes. "The First Nations student is caught between two cultures and is, therefore, outside of, and between, both."

Kirkness says the effects of integration have alienated many First Nations children and left them struggling with their identity. She blames these feelings on a lack of clearly articulated goals, qualified teachers and, most important, a lack of parental and community involvement in



Maintaining their identity is a struggle for First Nations children.

education.

Commissioned by the Canadian Education Association, the report also includes current educational initiatives from each provincial education ministry as well as the federal Department of Indian and Northern Affairs.

Kirkness hopes the book will be used as a tool by administrators, teachers and politicians to develop and enhance Native education in their own jurisdictions.

Offbeat

by staff writers

Assistant Prof. Bill McKellin was delighted to hear of Prime Minister Brian Mulroney's plan to step aside.

A socio-linguist in the Dept. of Anthropology and Sociology, McKellin is introducing a fourth-year anthropology course in January called *Language and Power*. For him, a leadership race translates into fresh rhetorical fodder for students to analyse.

"As speeches are the most common form of political action, my lectures are going to be a lot easier because there's going to be so much more material," said McKellin, who will diligently monitor his VCR to catch quips from aspiring PMs.

McKellin's class will examine how politicians in many cultures use metaphor and other rhetorical devices to persuade and shape public perception. For example, he points out that 'the economy' is constantly put in the context of a living being while 'the unemployed' are lumped together as an inanimate noun.

And then there are the inevitable promises which, from politicians, come laden with caveats.

Said McKellin: "Deficits are always larger than elected officials were told before they came to power. It's a perennial favourite for abrogating a promise."

•••••

Ever wonder what happened to Queen Caroline, estranged wife of King George IV?

UBC's DeLloyd Guth explains the ins and outs of this, one of Britain's more notorious 19th century trials, and many other famous legal wranglings on CBC Radio's Vicki Gabereau Show, starting in April.

Guth, who teaches comparative legal history in the Faculty of Law, will join Gabereau for a weekly chat on some high-profile trials of history including Thomas More, Galileo and Joan of Arc.

As for Caroline, Guth said she was left banging on the door of Westminster Abbey whilst George was inside being crowned.

"You don't have to be Dick Tracy to figure out the parallels to today's royal dilemma," he said.

For those who miss his radio lectures, heard between 2 and 4 p.m., Guth will also be teaching a course on famous trials, in June, through the Centre for Continuing Studies.

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How does this GRAB you?

The Garbage Retrieval and Bottle Stick — or GRAB — was designed by third-year Rehabilitation Sciences student Angela Baff for a class assignment on assistive devices.

Baff got the idea for her invention when she noticed a man having difficulty retrieving cans and bottles from one of the garbage dumpsters on campus.

"He complained of back pain when having to bend over to look inside the garbage receptacles and when reaching for the cans and bottles," she explained.

Baff carved a groove down the length of a piece of wooden dowelling and glued a thin aluminum tube inside the groove. A nylon line running through the tube acts as a lasso to rope in bottles, while a metal hook screwed in at the end of the dowel fits into can openings for easy lifting.

On a simulated run, GRAB did what it was designed to do Baff said, but added that the true test will come when it is actually put to work.

"Only the client will be able to say whether it works significantly better than the tree branch he uses now."



Guth

Centre will do research on Parkinson's disease

by Connie Filletti

Staff writer

UBC neurologist Dr. Donald Calne has been awarded \$475,000 U.S. by the Miami-based National Parkinson's Foundation (NPF) to establish the first NPF Parkinson's Disease Centre in Canada.

The centre, to be located at the UBC site of University Hospital under Calne's direction, will focus on research and patient support. It is expected to be in operation by April.

Current estimates indicate that 80,000 Canadians have been diagnosed with Parkinson's, a chronic, degenerative movement disorder in which there is a deficiency of dopamine—a brain chemical

which transmits messages between nerves.

Calne said that the university's PET (Positron Emission Tomograph) program, located at TRIUMF and directed by Dr. Tom Ruth, will play an important role in the centre's research. PET scanning provides pictures of the human brain at work.

He expects that a cyclotron dedicated to the centre will be added to the two scanners currently in use in the PET program.

As part of the centre's activities, Calne and research colleagues Dr. Barry Snow, Dr. Joseph Tsui and Dr. Chris Honey — all of UBC's Dept. of Neurology — hope to develop a program to study transplantation of tissue into the brain.



Martin Dee photo

Making a point, Veronica Strong-Boag, left, director of the Centre for Research in Women's Studies and Gender Relations, talks to federal cabinet minister Mary Collins during a recent campus luncheon. Collins was here to meet with representatives of university departments whose work relates to her various cabinet portfolios.

Federal cabinet ministers, MLAs, make campus visits

by Gavin Wilson

Staff writer

Federal cabinet ministers Mary Collins and Barbara McDougall and a group of provincial MLAs all paid separate visits to UBC recently.

Collins heard presentations relating to her cabinet duties as minister of western economic diversification, minister of state for the environment and minister responsible for the status of women.

She met with representatives of women's programs and services, including the Women Students' Office, Women's Studies program, Employment Equity and First Nations House of Learning.

Olav Slaymaker, associate vice-president, Research, told the minister of UBC's leadership in environmental research and education and Vancouver's role as a world environmental centre.

Robert Miller, vice-president, Research, related UBC's successes as a major research institution and how the creation of spin-off companies helps to diversify the Lower Mainland's economy.

In another visit, Minister of External Affairs Barbara McDougall was on campus to hold a round table discussion on foreign policy issues, the third such discussion she has convened while holding the External Affairs portfolio.

Chaired by Brian Job, director of UBC's

Institute of International Relations, the discussion was designed to give the minister direct feedback on topical issues from informed representatives of the community and the private sector as well as faculty and graduate students.

The round table group discussed issues related to Canada's roles in the Pacific Rim and Europe, including peacekeeping, economic development and foreign aid.

In an earlier visit, several NDP members of the legislative assembly, including Minister of Advanced Education Tom Perry and Minister of Tourism Darlene Marzari, visited the campus Feb. 9 for a briefing on UBC initiatives and programs. This was the second such visit from government caucus members since the 1991 election.

The day-long event included a major presentation on the health sciences at UBC, including such topics as education, research, evaluation of patient care and new technology.

The MLAs also attended briefings on the Institute for Sustainable Development and the Faculty of Forestry, a tour of the First Nations Longhouse construction site and a recital by UBC's woodwind quintet at the School of Music.

UBC President David Strangway welcomed the MLAs to campus and spoke to them about education, training and job creation at UBC.

Pulp finds itself in tight squeeze

by Abe Heffer

Staff writer

Talk about working under pressure.

It takes the force of more than five diesel train locomotives on two massive rotating discs to produce mechanical pulp.

And Guy Dumont, a professor in the Dept. of Electrical Engineering, is trying to control the process.

Dumont and his students have designed a computer controller for pulp refiners that break wood chips into fibres between massive rotating discs. These discs are at the heart of the mechanical pulp-making process.

"Huge amounts of power are expended in a gap of less than one millimetre between these two plates to produce the pulp," explained Dumont.

"If the millimetre of pulp between these plates collapses, there's the potential for serious damage."

As wood chips are broken into fibres, and fibres are further broken down into

pulp, the computer controller helps regulate what can be a very unstable process, said Dumont.

Dumont's work is among the research projects being conducted as part of the Mechanical and Chemimechanical Pulps Network located at the Pulp and Paper Centre at UBC.

The network was created in 1990 as part of the federal Networks of Excellence program. It represents a major university-based research effort to develop technology that can help improve the competitiveness of the Canadian pulp and paper industry.

"Mechanical pulp is the basis of Canada's economically vital newsprint industry," said Richard Kerekes, director of the Pulp and Paper Centre at UBC. Canada produces about 30 per cent of the mechanical pulp in the world, most of which is exported in paper products, mainly newsprint.

These exports face competition from new low-cost sources of fibres, he added.

News Digest

A critical view of health promotion research will be the focus of the second national Conference on Health Promotion Research at the Westin Bayshore in Vancouver, March 26 - 28.

Sponsored by UBC's Institute of Health Promotion Research, the conference will examine a broad spectrum of issues including chronic health conditions in B.C.'s First Nations communities; nutrition and low-income families; community support for breastfeeding; and health effects of affordable housing for single parent families. For more information, call 688-5749.

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The UBC Alumni Association has won a bronze medal award at the 11th CASE (Council for Advancement and Support of Education) District VIII competition for its video, *Town and Gown*.

The competition, open to colleges and universities from four western provinces and Washington, Oregon, Idaho and Alaska, recognizes exemplary achievements in communications.

The video was produced by Iris Communications for the association's diamond jubilee.

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Don't be an SOV (single occupant vehicle)!

That's the message that will be delivered on March 18 — alternative transportation awareness day at UBC.

According to a November 1992 survey, 76 per cent of vehicles travelling to and from UBC are SOVs. The focus of the day will be alternative forms of transportation, including carpools, vanpools, buses, walking and cycling.

Vancouver Ald. Gordon Price will speak on alternative forms of transportation at 12:30 p.m. in the Student Union Building auditorium and a bicycle and vanpool rally will take place at 1:30 p.m. in front of SUB and proceed along University Boulevard.

Displays on transit, carpooling, vanpools, cycling and the environmental effects of automobiles will be in the SUB concourse throughout the day.

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Students living in residence at UBC can get that long distance feeling, now that telephone service is available in individual rooms.

As of March 10, all students in Place Vanier, Gage Complex and Totem Park will have the option of enjoying all regular telephone services offered by B.C. Tel. Individuals may buy or rent telephones, and customers will be billed directly by B.C. Tel for services.

Installation of building wire, state-of-the-art fibre optic cable and equipment began last September.

Successful development and completion of the project was the result of a unique partnership between the university and B.C. Tel, said Jim Tom, director of Telecommunications Services.

"Flexibility and willingness to examine new ideas from both parties has led to this innovative technological and business arrangement."



Martin Dee photo

Big wheels keep on turning, under the watchful eye of research engineer Frank Lam (left) and Forestry Prof. Dave Barrett.

Wood products testing facility ranks among best in world

There has been a lot of stress at UBC's wood products laboratory.

Stress from 16,000 pounds of load, in fact.

The lab houses a full-scale, computer-operated testing facility that is designed to simulate the action of a lift truck on prototype flooring systems. The facility is being used to generate up to 3,000 loading cycles daily.

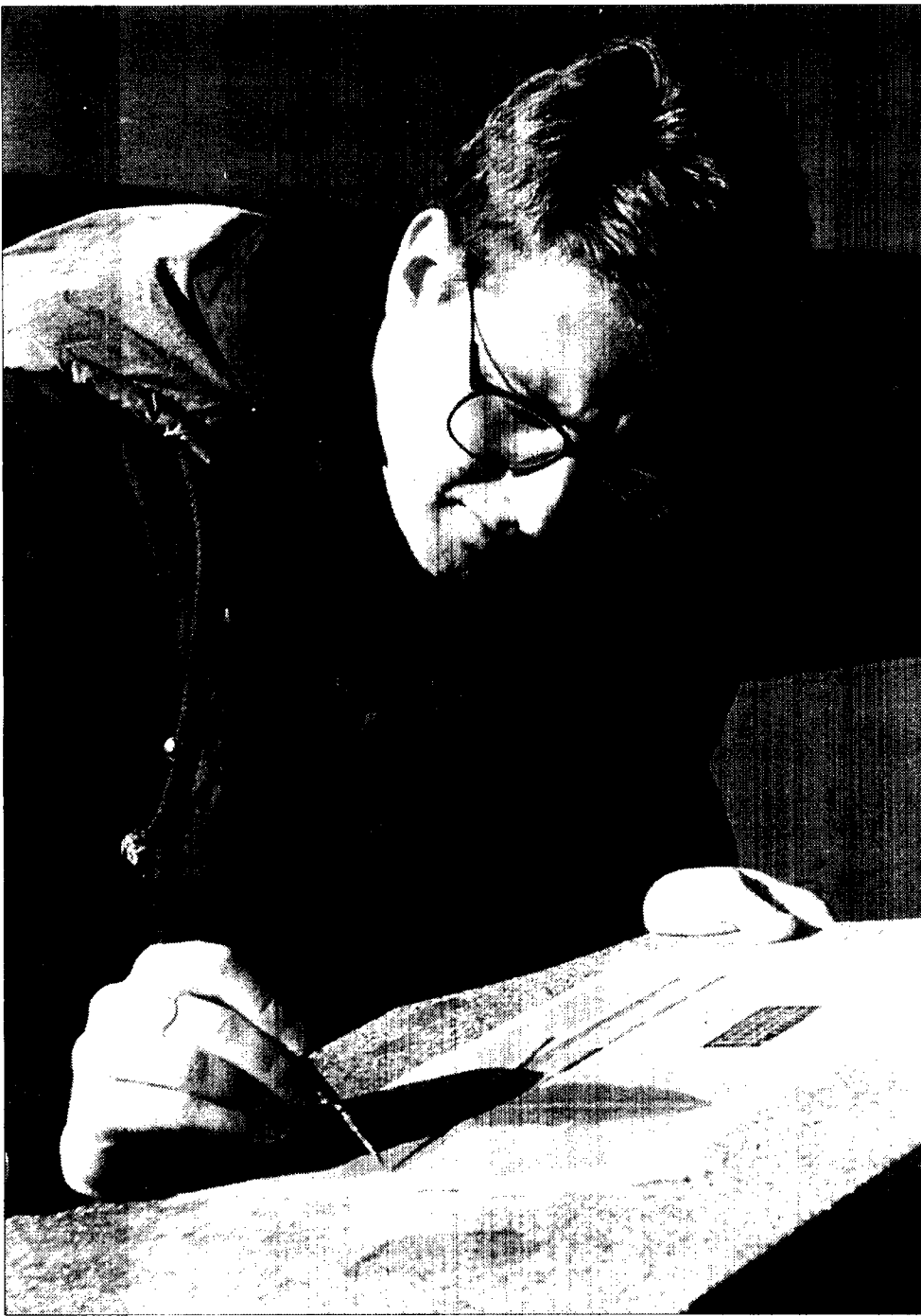
The facility is the most advanced testing system of its kind in the world, according to Forestry Prof. Dave Barrett and Research Engineer Frank Lam. It's being used to test the strength of TransDeck, an 11-ply flooring product developed by Ainsworth Lumber Company Ltd.

TransDeck, made of B.C. lodgepole pine veneer, was developed as a

substitute for hardwood flooring in trucks and trailers. It is lighter, more plentiful and easier to maintain and service than traditional hardwood flooring. Lam says the only question about the project has been whether or not it can sustain payloads of up to 16,000 pounds from wheels of lift trucks.

Developing the testing facility and structural analysis models has enabled the UBC research team to come to grips with that question by carrying out full-scale testing under actual loading conditions, while investigating the mechanical behaviour of the wood product.

The program was jointly funded by Forestry Canada, The Natural Sciences and Engineering Research Council of Canada, and Ainsworth Lumber Company Ltd.



Charles Ker photo

Picture Perfect

Fourth-year arts student Rob Scheib took advantage of recent spring-like conditions to paint a water-colour of Buchanan Block D for a theatre design course.

Student study disputes grizzly hunting claim

by Abe Heffer

Staff writer

A UBC Forestry student has prepared a study which shows that, contrary to popular belief, the hunting of adult male grizzly bears is doing nothing to enhance the female and cub population.

PhD candidate Robert Wielgus says the big-game hunting of adult male grizzly bears is leading to "sexually motivated murder" and a depletion of the grizzly bear population.

Wielgus says many biologists believe that the hunting of adult males increases the production of young, because of increased food supplies, while increasing the survival of the young, because of reduced numbers of cannibalistic males.

Wielgus suggests that the exact opposite may be true: the hunting of adult males may actually lead to an increase in the number of murderous males and a decrease in the amount of food available to females and cubs.

"However, these murderous males aren't killing for food, or, cannibalistic purposes. Rather, they are doing so for sexual purposes," Wielgus explained.

When Wielgus first ventured into the woods of Kananaskis, Alberta, more than a decade ago, he discovered that female bears appeared to be hiding from male bears and he wanted to find out why.

So, Wielgus, along with Forestry Professor Fred Bunnell, analysed the population dynamics and habitat use of the Kananaskis grizzly bears from 1980-1984.

From 1980-1981, the hunting of bears was prohibited in the area. That changed in 1982 through 1984, when trophy

hunting of adult males was allowed. Wielgus discovered that once Kananaskis was opened up to trophy hunting, many younger males from adjacent areas began to move in.

"We found that sexually mature females were avoiding immigrant males because those males tried to kill the females' cubs, in order to bring the females into heat," he said.

"Those females hid in poor quality habitats where immigrant males were rare and their production of cubs suffered as a result. The population was declining."

Wielgus said the immigrant males wanted the females to mother their own offspring.

"It's a case of sexually motivated murder, and it occurs in other animals, as well," he said.

Wielgus took the study a step further. From 1985-1990 he analysed a grizzly bear population in the Selkirk Mountains of B.C. and Idaho, an area where big-game hunting was not allowed.

Wielgus said there was no evidence of immigrant males moving into the area, because the older resident males kept them away. The result: females did not avoid the resident males who fathered their cubs and used the same high-quality habitats as the males. Their cub production was high and the population grew.

"Big-game hunting has always centred around the older, larger male," Wielgus said.

"Although grizzly bears are vulnerable or threatened in Canada and the United States, many biologists justified the practice of trophy hunting, believing that it would lead to an increase in the bear population.

"Up until now, it appears ever tested this paradigm, and it appears to be wrong, at least in my study area."

Forum

Challenge to campus: unlearn racist attitudes

by Jin-Sun Yoon

Jin-Sun Yoon is a graduate student in Counselling Psychology. Her contribution to Forum is based on notes for a speech she recently gave to university administrators, deans and heads. March 21 has been designated International Day for the Elimination of Racial Discrimination by the United Nations. A full-day workshop sponsored by the Multicultural Liaison Office entitled Racism: Breaking the Silence will be held March 19. Call 822-9583 for more information.

UBC is the third largest university in Canada and a city unto itself. In this light, I like to see UBC as a representation of society at large, albeit a rather elite one.

In fact, this is why the issues of racism and multiculturalism must be taken even more seriously here. Among UBC's many graduates are the future educators and leaders of society. Universities are not only supposed to be centres of higher learning, but places to develop critical thought and practice moral behaviour.

Sadly, we have enough evidence that this is not the case. With all too evident racist graffiti, the spread of hate literature, and overt racial discrimination, UBC does not provide a warm climate for people of colour.

As students, we all rely on role models and mentors. Here at UBC, an estimated 30 to 40 per cent of our student body is of ethnic minority. But just look around campus. Where are the role models?

I have looked at the Employment Equity census from May 1991 and I am glad to see the effort of the university to correct its hiring process. However, the issue lies not just in the hiring, but in making the workplace and the campus more welcoming.

I don't believe we are all equal. By circumstance, some people have much more privilege in life than others. They in turn must be the ones who are extra vigilant about their social responsibility.

Because of their position, faculty members bear greater responsibility for helping out students who are disadvantaged by nurturing scholarship through encouragement and support. How many people of colour are there who are brilliant but are not reaching their potential because of racial stereotypes? How many drop out?

I have a strange loyalty to this university. I believe in it, but I want to see things change. UBC is at the top of the great chain reaction. UBC educates the future educators, who in turn educate the children and parents. If we do not dismantle

racism at this level, then graduates leave with previously learned racist ideas and attitudes intact.

We all learn racist attitudes; we all must unlearn them. It's not enough to say that you're not racist. Racism cannot be dismantled in a two-hour workshop. It is deeply ingrained and must be systematically and rigorously challenged every day.

Administrators, deans and heads hold the real power. They are key to instituting these kinds of changes.

UBC is examining the possibility of creating a human rights office. Some people oppose the human rights document because they feel it infringes on their freedom of speech. I am shocked. I can't say that I have ever felt the freedom to speak as I want. And I am absolutely sure that I am not the only one. We need to

offer a mechanism through which grievances can be readily registered and reprimands given.

UBC has tremendous potential to be a place where cultural diversity is nurtured and appreciated and where all students of majority and minority cultures are comfortable and secure. Every element is here to suggest that.

But how can we make these things happen?

First, I would like to see more representation of people of colour in higher levels of decision-making.

Second, UBC cannot simply hire people who have traditionally been disadvantaged without ensuring that the working environment is welcoming and safe.

Third, education about racism must be taken very seriously. Unfortunately, we are still adolescents when it comes to cross-cultural awareness and anti-racism work.

Fourth, minority people cannot be treated as second class citizens. Canada has been multiracial since its conception and can be viewed in two ways. Either we are all immigrants and the only true Canadians are the Aboriginal peoples. Or, we are all Canadians and are entitled to all the privileges of what Canada has to offer. We need a period of time to allow traditionally disadvantaged people to catch up.

Fifth, we must view differences as a necessary spice of life and respect the spices for their unique and individual flavours. I was raised in a very white environment and I remember being terribly embarrassed as a child because my friends and neighbours would point out that my family ate "smelly" and "funny" food. I find it interesting that the same food is now treated as "exotic" and "exciting."

Same food. Different perception. It gives me hope that our social attitudes can, and will, change.

UBC has tremendous potential to be a place where cultural diversity is nurtured and appreciated and where all students of majority and minority cultures would be comfortable and secure. Every element is here to suggest that.

-- Jin-Sun Yoon

Calendar

March 14 through March 27

Seminars

Monday, March 15

International Forum

Perspectives From The South. Alex Kwapong, vice-president, Commonwealth of Learning, formerly vice-chancellor, U. of Ghana/vice-rector. The United Nation U., Tokyo. IRC #4 from 12:30-1:30pm. Call 822-4401.

Mechanical Engineering

The Mixing Behaviour Of Turbulent Free Jets. Prof. C. Richards, Washington State U. Civil/Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6200/4350.

Astronomy Seminar

Model Atmospheres Of Brown Dwarfs. France Allard, U. of Montreal. Geophysics/Astronomy 260 at 4pm. Coffee at 3:30pm. Call 822-2696/2267.

Tuesday, March 16

Pharmacology/Therapeutics

Metabotropic Receptors And Amino Acids. Dr. Ken Curry, Physiology. University Hospital G279 from 12-1pm. Call 822-6980.

Pharmaceutical Sciences

Therapeutic Alternatives For The Treatment Of Unstable Angina. Ms. Angela Lo, grad student, Clinical Pharmacy, Pharmaceutical Sciences. IRC #4 at 12:30pm. Call 822-2061.

Botany Seminar

The Relationship Of Cells To Organisms In Higher Plants: Are Cells The Building Blocks Of Plant Form? Dr. Donald Kaplan, Plant Biology, U. of California, Berkeley. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Faculty Development

Instructional Objectives: How To Organize Your Teaching And Your Students' Learning. Mary Ann Booth, Commerce; Sandy Morton, Accounting/Commerce; Paul G. Harrison, Botany. Angus 109 from 3-5pm. Call Lynne Abbott at 822-9149 to register.

Oceanography Seminar

A 3-Dimensional Diagnostic Model For The Tides And Estuarine Flows In Georgia And Juan De Fuca Straits. Mike Foreman, Institute of Ocean Sciences, Sidney, BC. BioSciences 1465 at 3:30pm. Call 822-2828.

Occupational Hygiene Programme Seminar

Mercury In The Gold Mining Region Of The Amazon. Marcello Veiga, visiting scholar, Mining/Mineral Process Engineering, University Hospital G226 at 4pm. Call 822-9595.

Statistics Seminar

Statistical Evidence For Two Glaucomas: A Case For Serendipity. Dr. Michael Schulzer, Statistics. Angus 426 at 4pm. Refreshments. Call 822-3167/2234.

Wednesday, March 17

Faculty Association

And Now For Something Completely Different...Real Estate Investment For The 90's. Peter Clement, Clement Investment Corporation. Hennings 201 from 12:30-1:20pm. Call Lynne Abbott at 822-9149.

Microbiology Seminar

Molecular Paleontology And Microbiology In The Okanagan Valley. Dr. Jorg Overmann, Microbiology, Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

Anatomy Seminar

Ca²⁺ And Contractility In Glial Cells: Creative Tension Within The Nervous System. Dr. Mark S. Cooper, Zoology, U. of Washington, Seattle. Friedman 37 from 12:30-1:30pm. Call 822-9071.

Pharmaceutical Sciences

A New Hope For Patients With Dementia. Ms. Elaine Kam, grad student, Clinical Pharmacy, Pharmaceutical Sciences, Family/Nutritional Sciences 320 at 4:30pm. Call 669-6500, pager 421.

Thursday, March 18

Pharmaceutical Sciences

The Biological Effects Of Vanadium. Dean J.H. McNeill, Pharmaceutical Sciences, Family/Nutritional Sciences 60 at 11:30am. Call 822-2692.

Whole Earth Seminar

Organism/Sediment Interactions. Dr. George Pemberton, U. of Alberta. GeoSciences 330A at 12:30pm. Pizza/discussion following. Call 822-9258.

Botany Seminar

The Ecology And Management Of Old Growth Forest Landscapes In The Pacific Northwest. Dr. Jerry F. Franklin, College of Forest Resources, U. of Washington. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Faculty Development

Lecturing For Learning. Gail Riddell, Centre for Faculty Development/Instructional Services. Angus 33 from 3:30-5pm. Call Lynne Abbott at 822-9149 to register.

Statistics Seminar

Teaching Statistics - A Statistics Canada Perspective. Gordon J. Brackstone, asst. chief statistician, Informatics/Methodology, Statistics Canada. Angus 426 at 4pm. Refreshments. Call 822-3167/2234.

Friday, March 19

Creative Writing Seminar

Workshop For Poets. Prof. Richard Kenney, English, U. of Washington. Buchanan E474 from 10am-12pm. Call 822-4596/2712.

Astronomy Seminar

Powerful Radio Sources And Cosmology. Dr. Ruth A. Daly, Princeton U. Geophysics/Astronomy 260 at 2:30pm. Coffee at 2pm. Call 822-4134.

Chemical Engineering

Measurement Of Voidage And Velocity Profiles In Spouted Beds Using Fiber Optic Probes. Yan-Long He, grad student, ChemEngineering 206 at 3:30pm. Call 822-3238.

Monday, March 22

Mechanical Engineering

A Study Of Heat Transfer With Phase Change Material In Heat Storage Systems. Dr. Chae Moon Lee, visiting professor, Yuhan Technical College, Korea. Civil/

Mechanical Engineering 1202 from 3:30-4:30pm. Refreshments. Call 822-6200/4350.

Biochemistry/Molecular Biology Seminar

NMR Studies Of Protein: Protein Interactions Involved In Blood Coagulation. Dr. Feng Ni, NRC, Biotechnology Research Institute, Montreal. IRC #4 at 3:45pm. Call 822-3178.

Astronomy Seminar

Turning TRIUMF Into A Red Giant. John D'Auria, TRIUMF, Geophysics/Astronomy 260 at 4pm. Coffee at 3:30pm. Call 822-2696/2267.

Tuesday, March 23

Pharmacology/Therapeutics

Novel Ways Of Modulating Ca-Channel Function In Central Neurons. Dr. John Church, Anatomy, University Hospital G279 from 12-1pm. Call 822-6980.

Pharmaceutical Sciences

Review Of The Mechanism Of Valproic Acid-Induced Hepatotoxicity. Ms. Sashi Gopaul, BSc, grad student, Pharmaceutical Chemistry, Pharmaceutical Sciences. IRC #4 at 12:30pm. Call 822-2051.

Botany Seminar

Green Algae From Tropical Rainforests To Ribosomal RNA Gene Sequences. Dr. Russell Chapman, Botany, Louisiana State U. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Faculty Development

Not Just Another Overhead: Creative Use Of AV Technology. Denise Sketches, Bio-Medical Communications. Scarfe 1326 from 3-5pm. Call Lynne Abbott at 822-9149 to register.

Oceanography Seminar

TBA. Ray Anderson, Oceanography. BioSciences 1465

Colloquia

Monday, March 15

Applied Mathematics Colloquium

Evolution Of A Phase Change Boundary In A Time Varying Pressure Field. Dr. Bruce Buffett, Geophysics. Mathematics 203 at 3:45pm. Call 822-4584.

Thursday, March 18

Psychology Colloquium

Problems With Emotion Accounts Of Human Facial Expression. Dr. Alan Fridlund, U. of California, Santa Barbara. Kenny 2510 at 4pm. Call 822-2755.

Physics Colloquium

Quantum Effects In The Interference Of Light. Leonard Mandel, Rochester U. Hennings 201 at 4pm. Call 822-3853.

Monday, March 22

Counselling Psychology Colloquium

A Three Factor Model Of Addiction. Dr. Robert Tolson, Counselling Psychology 102 from 12-1pm. Call 822-5259.

Poetry Reading

On Friday, March 19, Prof. Richard Kenney, U. of Washington, one of the most distinguished of the American Neoformalists, will give a public lecture and reading in Room 60 of the Nutritional Sciences Building. He appears at the university under the sponsorship of the Department of Creative Writing and the Leon and Thea Koerner Foundation.

at 3:30pm. Call 822-2828.

Occupational Hygiene Programme Seminar

Biological Markers Of Exposure To Carcinogens. Dr. Bruce Dunn, Epidemiology/Biometry/Occupational Oncology, BC Cancer Agency, University Hospital G226 at 4pm. Call 822-9595.

Wednesday, March 24

Centre For Southeast Asian Research Seminar

The Impact Of Industrial Growth On Local Communities In Central Java. Mr. Sudharto P. Hadi, PhD candidate, Planning, Asian Centre 604 at 12:30pm. Call 822-3814/4688.

Microbiology Seminar

The Development Of An Outer Membrane Protein. OprF, As A Presentation Vector For A Foreign Epitope. Rebecca Wong, Microbiology, Wesbrook 201 from 12:30-1:30pm. Call 822-3308.

Pharmaceutical Sciences

Beta-Blockers For CHF - A Paradox? Ms. Rubina Sunderji, grad student, Clinical Pharmacy, Pharmaceutical Sciences, Family/Nutritional Sciences 320 at 4:30pm. Call 669-6500, pager 421.

Thursday, March 25

Pharmaceutical Sciences

Induction Of Ethoxyresorufin O-Deethylase (EROD) Activity By Dioxin In Domestic And Wild Birds. Mr. Thomas Sanderson, Pharmacology/Toxicology,

Pharmaceutical Sciences, Family/Nutritional Sciences 60 from 11:30am-12:30pm. Call 822-2692.

Whole Earth Seminar

Peanut Butter Club. GeoSciences 330A at 12:30pm. Call 822-9258.

Interdisciplinary

Renaissance Seminar

Sempiternity's Fingerprints: Kairos, Aevum, And The Humanist Architecture Of Time. Giancarlo Maiorino, Comparative Literature, Indiana U. Buchanan B224 at 3:30pm. Call 822-4436.

Faculty Development

Teaching Large Classes - The UBC Experience. Inge Williams, Education; Neil Guppy, Anthropology/Sociology; Bruce Tiberis, Biochemistry. Angus 33 from 3:30-5pm. Call Lynne Abbott at 822-9149 to register.

Friday, March 26

Chemical Engineering

Post-Refining Of Mechanical Pulp. Lorrie Welch, grad student, ChemEngineering 206 at 3:30pm. Call 822-3238.

History Seminar

The Theory And History Of International Grain Markets. Richard W. Unger, professor, History, Buchanan Tower 910 at 4pm. Call 822-5938.

Wednesday, March 24

Applied Mathematics Colloquium

Robust Control Of Systems With Elastic Appendages. Dr. Fakhri Karray, Electrical Engineering, Mathematics 203 at 3:45pm. Call 822-4584.

Interdisciplinary Nineteenth Century Studies Colloquium

The Best Laid Plans: Constructing Leisure In Victorian London. Deborah Weiner, Architecture; Jim Winter, History, Faculty Club Music Room at

7:30pm. Call 822-4225/5122.

Thursday, March 25

Physics Colloquium

Maxwell's Demon, Information And Entropy. Wojciech Zurek, Los Alamos National Laboratory/Santa Fe Institute. Hennings 201 at 4pm. Call 822-3853.

Friday, March 26

Psychology Colloquium

Memory, The Hippocampus, And Natural Selection. Dr. David Sherry, U. of Western Ontario. Kenny 2510 at 4pm. Call 822-2755.

UBC REPORTS

CALENDAR DEADLINES

Material for the Calendar 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. Notices exceeding 35 words may be edited.

Deadline for the March 25 issue of UBC Reports — which covers the period March 28 to April 10 — is noon, March 16.

Calendar

March 14 through March 27

Lectures

Monday, March 15

Geography Lecture

History As A Battleground: Russian/Ukrainian Relations And Historical Consciousness In Contemporary Ukraine. Dr. Zenon E. Kohut, Canadian Institute of Ukrainian Studies, U. of Alberta. Buchanan D114 from 12:30-1:30pm. Call 822-3443.

Tuesday, March 16

Lectures In Modern Chemistry

Mechanism Of Chromium (VI) Carcinogenicity: Reactive Intermediates And DNA Damage. Dr. Karen E. Wetterhahn, Chemistry, Dartmouth College, Hanover, New Hampshire. Chemistry South Block B250 at 1pm. Refreshments at 12:50pm. Call 822-3266.

Spencer Memorial Lecture

The Juvenile Hormone Of Insects: Elixir, Nemesis And Enigma. Professor G.R. Wyatt, Biology, Queen's U. Family/Nutritional Sciences 60 at 4:30pm. Call 822-3682/6973.

Wednesday, March 17

Orthopaedics Grand Rounds

Report From The American Academy Of Orthopaedic Surgeons. Chair: Dr. Robert W. McGraw. Eye Care Centre Auditorium at 7am. Call 875-4646.

Murrin Lecture Series

Issues In Interfaith Dialogue. Dr. Donna Geernaert, SC, Murrin Scholar in Residence. Buchanan D239 at 12:30pm. Call 822-2932.

French Lecture

Les Avatars De Vendredi Ou Les Limbes De L'Autocensure. Anne Scott. Buchanan Tower 799 at 2:30pm. Call 822-4025.

Audiology/Speech Sciences Lecture

Meanings Of Hearing Impairment: Social Ecology Of Hearing Loss. Dr. William McKellin, Anthropology/Sociology, James Mather Annex 1 at 4:45pm. Call 822-5798.

Thursday, March 18

Students For Forestry Awareness Speaker Series

Sustainable Development Strategy: What Process, What Product. Robert Prescott-Allen, chair, IUCN Working Group on Strategies for Sustainability. MacMillan 166 from 12:30-1:30pm. Call 222-1882.

Friday, March 19

Obstetrics/Gynaecology Grand Rounds

Obstetrical Case Presentations. Dr. Stephen Kaye, Dr. Jeff Somerville, Dr. Lynn Schouls. University Hospital Shaughnessy Site D308 at 8am. Call 875-4261.

Creative Writing Lecture

Richard Kenney Reading From His Poetry. Prof. Richard Kenney, English, U. of Washington. Family/Nutritional Sciences 60 from 12:30-1:30pm. Call 822-4596/2712.

Saturday, March 20

Vancouver Institute Saturday Night Lecture

Canada's Stonehenges. Dr. David Vogt, director, Science, Science World. IRC #2 at 8:15pm. Call 822-3131.

Tuesday, March 23

Lectures In Modern Chemistry

Recent Advances In The Chemistry Of Buckminsterfullerene. Dr. Fred Wudl, Chemistry, U. of California, Santa Barbara. Chemistry South Block B250 at 1pm. Refreshments at 12:50pm. Call 822-3266.

Wednesday, March 24

Orthopaedics Grand Rounds

Trauma Service. Distraction Osteogenesis: An Update. Chair: Dr. Paul Blahut. Eye Care Centre Auditorium at 7am. Call 875-4646.

Thursday, March 25

Public Lecture

Neo-Tropical Migrant Bird Declines: What Is The Story? Dr.

Karl Miller, assistant research scientist, Forest Resources, U. of Georgia, Athens. MacMillan 166 at 1:30pm. Call 822-6316.

Garnett Sedgewick Memorial Lecture

Of Irony, Especially In Shakespeare. Prof. William Blissett, U. College, U. of Toronto. Law Main Auditorium at 7:30pm. Call 822-4095.

Friday, March 26

Obstetrics/Gynaecology Grand Rounds

Rounds Cancelled. Call 875-3266.

Paediatrics Grand Rounds

Adolescent Health: An International Perspective. Dr. D. Bennett, head, Adolescent Medical Unit, Children's Hospital, Camperdown, Australia. G.F.

Strong Auditorium at 9am. Call 875-2118.

Saturday, March 27

Vancouver Institute Saturday Night Lecture

The Pornography Of Everyday Life. Prof. Ann Scales, Law, Prof. Jane Caputi, American Studies, U. New Mexico. IRC #2 at 8:15pm. Call 822-3131.



Gavin Wilson photo

Twenty teams participated in UBC's Intramurals centipede run last week. The next major Intramurals event is Storm the Wall which takes place from March 21 to 26.

Miscellany

Tuesday, March 16

Hearing Health Promotion Activity

Hearing Testing Van and Information Service. Hearing Van at East Mall, behind Main Library; Hearing Information at Disability Resource Centre from 9:30am-3:30pm through to March 18. Call 822-5798.

Wednesday, March 17

1993 Scientific Equipment Trade Show

View the latest scientific/laboratory equipment/supplies. Door prizes. SUB Ballroom/Partyroom/Room 205 from 10am-4pm through to March 18. Call 822-3456.

MOST Workshop

Quality Awareness Training. Find out about quality management/UBC initiatives in this field. Angus 109 from 1-4pm. Call 822-9644 to register.

St. Patrick's Day Celebration

An evening of entertainment, refreshments and fun times. Please wear green. International House Gate 4 Lounge from 7-12pm. Call 822-5021.

UBC Senate Meeting

The Senate, UBC's academic Parliament, meets at 8pm in Room 102 of the Curtis (Law) Building, 1822 East Mall.

Thursday, March 18

Orientation Session

New/existing staff come find out about policies affecting you at work, meet key people across campus and win prizes. Cecil

Green Park Yorkeen Room from 9am-12pm. Call 822-9644.

Kaspar Naegele Memorial

Experienced Bodies As Contested Sites (Evidence For Universals In The Way Humans Engage And Conceptualize The World). Prof. Roger M. Keesing, Anthropology, McGill U. Anthropology/Sociology 207/209 at 12:30pm. Call 822-4387.

Rebecca Belmore

Objibway artist who works in performance and installation talks about her work. Lasserre 102 at 12:30pm. Call 822-2759.

Alternative Transportation Awareness Day

Event to promote alternatives to use of single occupant vehicles by commuters. Vancouver Alderman Gordon Price. SUB Auditorium at 12:30pm. Bike/van pool rally at 1:30pm. Call 822-8676.

Friday, March 19

Mini Conference

Racism: Breaking The Silence. Sponsored by the Multicultural Liaison Office. Cecil Green Park Yorkeen Room from 8:30am-4:30pm. Call 822-9583.

Pediatrics Resident Case Management

CPC. Dr. J. Hukin/Dr. Karen Bamber, residents; Dr. Margaret Nornal, pathologist. G.F. Strong Rehab Centre Auditorium at 9am. Call 875-2118.

Leon/Thea Koerner Memorial

Writing Poetry: Formal, Metered Poetry. Prof. Richard Kenney, English, U. of Washington.

Buchanan E474 at 10am. Call 822-4596.

Kaspar Naegele Memorial

Radical Cultural Difference: Anthropology's Myth (The Cultural Construction Of Time). Prof. Roger M. Keesing, Anthropology, McGill U. Anthropology/Sociology 207 at 12:30pm. Call 822-4387.

Leon/Thea Koerner Memorial

Poetry Reading. Prof. Richard Kenney, English, U. of Washington. Family/Nutritional Sciences 60 at 12:30pm. Call 822-4596.

International Relations Panel Discussion

Pacific Security Issues. Buchanan Penthouse from 3-5pm. Call 822-6875.

Tuesday, March 23

MOST Workshop

Assertiveness. Ann Rice.

Music

Wednesday, March 17

Wednesday Noon Hour Concert Series

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

Tuesday, March 23

Nisga'a Cultural Dancers

Elementary school from Greenville, BC performing traditional Nisga'a songs/dances as well as contemporary works by composer Chester

Women's Resources Centre. Angus 109 from 9am-12pm. Additional sessions offered. Call 822-9644 to register.

Thursday, March 25

Board Of Governors' Meeting

UBC's Board of Governors meets in the Board Room, second floor of the Old Administration Building, 6328 Memorial Rd. The open session starts at 9am.

Friday, March 26

Pacific Northwest Renaissance Conference

The Reader, The Subject And The Self In Early Modern Europe, 1300-1700. Prof. Brian Stock/Prof. Eva Kushner, U. of Toronto; Prof. David Harris Sacks, Reed College, Oregon. Graduate Student Centre/Museum of Anthropology, 8am-5pm through to March 27. Call 822-4095 to register.

Moore. Museum of Anthropology Great Hall at 12:30pm. Call 822-5206.

Wednesday, March 24

Wednesday Noon Hour Concert Series

Eric Pritchard, violin. Music Recital Hall at 12:30pm. Admission \$2. Call 822-5574.

Nisga'a Cultural Dancers

Second performance at the First Nations House of Learning Longhouse at 12:30pm. Call 822-5206.

Calendar

Notices

Campus Tours

School and College Liaison Office Friday morning tours for prospective UBC students. Reserve one week in advance. Call 822-4319.

UBC Speakers Bureau

Would your group like to know more about topics ranging from dolphins to computers of the future? Choose from more than 400 topics. Call 822-6167 (24 hr. ans. machine).

Theatre Performance

Dombey and Son. Charles Dickens. Errol Durbach, John Wright. Frederic Wood Theatre now through March 20 at 8pm. Adults \$10, students/seniors \$7. Wednesday previews 2 for \$10. Call 822-2678.

Opera Theatre/Symphony Orchestra

Iolanthe by Gilbert and Sullivan. French Tickner, director; Jesse Read, conductor. Old Auditorium at 8pm March 23, 24, 26, 27. Adults \$10, students/seniors \$6. Call 822-3113.

Executive Programmes

Two-day Business Seminars. March 15-27: Speed Reading, \$695; Implementing Self-Managing Work Teams, \$795; Real Estate Investment Analysis, \$695; Designing a Performance Appraisal System, \$750. Call 822-8400.

ESL Evening Classes

Conversation Skills; Basic Writing/Grammar; Listening Skills; Advanced Discussion; Fluency/Pronunciation; Advanced Composition; Academic Writing Workshops; TOEFL Preparation. Beginning April 26/27, twice a week, 7-9pm. Call 222-5208.

Downtown Evening Course

Non-native speakers of English develop and refine your business communication and writing skills. Starting April 26. Mondays/Wednesdays 4:45-6:45pm. Call 222-5208.

Introduction To Microcomputers/Word Processing

Non-native speakers of English with no prior experience with personal computers become familiar with the computer, technical vocabulary and WordPerfect 5.1. Beginning May 4 from 7-9:30pm. Call 222-5208.

Professional Engineering Practice Tutorials/Lecture

Series designed to assist applicants in writing APEGBC's Professional Practice Exam. Wednesdays 6:30-9:30pm now through April 17. Registration required, fees vary. Call 822-3347.

Reachout Program

Student volunteers write letters to students intending to attend UBC, explaining life at UBC and in Canada, to ease the apprehension of international students. For information go to International House or call 822-5021.

Women Students' Office

Taking registration for career planning, assertiveness, self-esteem, making peace with food, bicultural women/mature women students support.

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

Reading/Writing/Study Skills Centre

Develop your writing skills for interest and possibly profit. Travel Writing/The Artful Business of Freelance Writing start in March. Call 222-5245.

Chinese Law Conference

Chinese Law: A Re-Examination Of The Field. Various Chinese law specialists from Canada/USA/Hong Kong. Curtis 176, March 22-23 from 9am-5pm. Call 822-4780.

AMS Art Gallery Display

The Audience Is Watching. Recent paintings/sculptures by Jey Horning/Victor Wagner. SUB Art Gallery, Monday-Friday, 10am-4pm, March 15-19. Claudia Freire's recent works Monday-Friday, 10am-4pm, March 22-26. Call 822-2361.

Fine Arts Gallery

Tues.-Fri. from 10am-5pm. Saturdays 12-5pm. Free admission. Main Library. Call 822-2759.

Sexual Harassment Office

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

Statistical Consulting/Research Laboratory

SCARL is operated by the Department of Statistics to provide statistical advice to faculty/graduate students working on research problems. Free consulting for graduate students with supervisor's approval available this semester. Call 822-4037 or e-mail scarl@stat.ubc.ca.

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.

Institute Of Pacific Relations Research

A review of Canadian participation in the Institute of Pacific Relations (IPR, 1925-61) is being prepared at the Institute of International Relations. Anyone with information on the IPR please call Lawrence Woods at 822-6875.

Clinical Research Support Group

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

Professional Fitness Appraisal

Administered by Physical Education and Recreation through the John M. Buchanan Fitness and Research Centre. Students \$40, others \$50. Call 822-4356.

Child Studies Research

Is your baby between 2 and 22 months? Join UBC's Child Studies Research Team for lots of fun. Call Dr. Baldwin at 822-8231.

Psychiatry Research Studies

Psychiatric Study Involving Eye Test. Volunteers are needed as control group. Study involves one

eye test at Vancouver General Hospital and one interview at UBC—total time 1 1/2 hours. Stipend \$15. Call Arvinder Grewal at 822-7321.

Medication Treatment For People With Depression. Call Annie Kuan/Dr. R. A. Remick at 822-7321.

Behaviour Study

Do you check or clean too much? Psychology is looking for people who repeatedly check (e.g. locks, stoves) or clean excessively to participate in a study. Call 822-7154/9028.

Self-Concept/Body Image Study

Seeking women volunteers ages 35-65 who either have not had any surgery on their breasts or had undergone surgery for breast cancer 2-5 years ago, without recurrence or further surgery on their breasts. Participation involves a questionnaire about body image/self-concept which takes about 15 minutes to complete. Call 224-0313.

High Blood Pressure Clinic

Adult volunteers needed to participate in drug treatment studies. Call Dr. J. Wright in Medicine at 822-7134 or RN Marion Barker at 822-7192.

Drug Research Study

Male and female volunteers required for Genital Herpes Treatment Study. Sponsoring physician: Dr. Stephen Sacks, Medicine/Infectious Diseases. Call 822-7565.

Heart/Lung Response Study

At rest and during exercise. Volunteers aged 35 years and more and of all fitness levels required. No maximal testing; scheduled at your convenience. Call Marijke Dallimore, School of Rehab. Medicine, 822-7708.

Sexual Response Study

Psychology department requires sexually functional/dysfunctional women to participate in research on sexual arousal. Honorarium. Call 822-2998 Monday-Thursday from 4-6pm.

Late Afternoon Curling

Space available at Thunderbird Winter Sports Centre from 5-7:15pm. Beginners and experienced curlers welcome. Call Alex at 738-7698 or Paul (evenings) at 224-0835.

Pacific Spirit Regional Park Programs

Autumn program brochures are now available for all-ages as well as children's recreational/nature-study outings. Pick up from the Park Centre at 16th, west of Blanca or the GVRD main office in Burnaby. Call 432-6350.

Botanical Garden

Open daily from 10am-6pm. Free winter admission in effect. Call 822-4208.

Nitobe Memorial Garden Restoration

The Nitobe Garden is being restored to its original character through Mar. 31/93. During this period, the garden will be closed to the public. Call 822-8228.

Chinese law conference draws Pacific Rim scholars

The Centre for Asian Legal Studies at the UBC Faculty of Law will host an international conference, "Theories and Methodologies in the Study of Chinese Law", March 22 and 23.

Scholars from Canada, the U.S., and Hong Kong will present papers and lead panel discussions on a variety of topics, including the legal history and comparative and international perspectives of

Chinese legal studies.

The conference is the first in the two-part series, Chinese Law: A Re-Examination of the Field, organized by UBC and the University of Washington.

The event is funded in part by the UBC Centre for Chinese Research and the Social Sciences and Humanities Research Council of Canada. For more information, call 822-4780.

Canadians give high grades to their universities, survey shows

Four out of five Canadians believe that universities are doing a good or very good job, according to a recent Angus Reid poll.

Two-thirds of those polled said that universities are performing better than primary and secondary schools.

Respondents also supported the idea of students paying tuition fees

and agreed that universities are underfunded by governments.

Fewer than one in 10 mentioned research as one of the roles of universities.

The survey of 2,000 Canadians from across the country was commissioned by the Association of Universities and Colleges of Canada.

Sports Digest

Colour Turlough O'Hare gold.

O'Hare came home with four gold medals from last month's 1993 Winternationals in Saint John, New Brunswick.

The 23-year-old Richmond native swept the distance freestyle events over 200, 400, 800 and 1,500-metres and his performance in the 800-metres set a new Canadian short course record.

The fourth-year Arts student was named most outstanding male swimmer of the meet and has clearly established himself as perhaps the best distance freestyle swimmer in the country.

•••••

A total of five T-Birds have been named to the Canada West volleyball allstar team.

Heading the list of women T-Birds named to the conference first allstar team are 23-year old Golden, B.C. native Sonya Wachowski, a fifth-year Education student, and 22-year-old North Vancouver Jenny Rauh, a fourth-year Arts student.

Fourth-year Arts student Pat Voracek of Surrey, 22, was named a second team allstar.

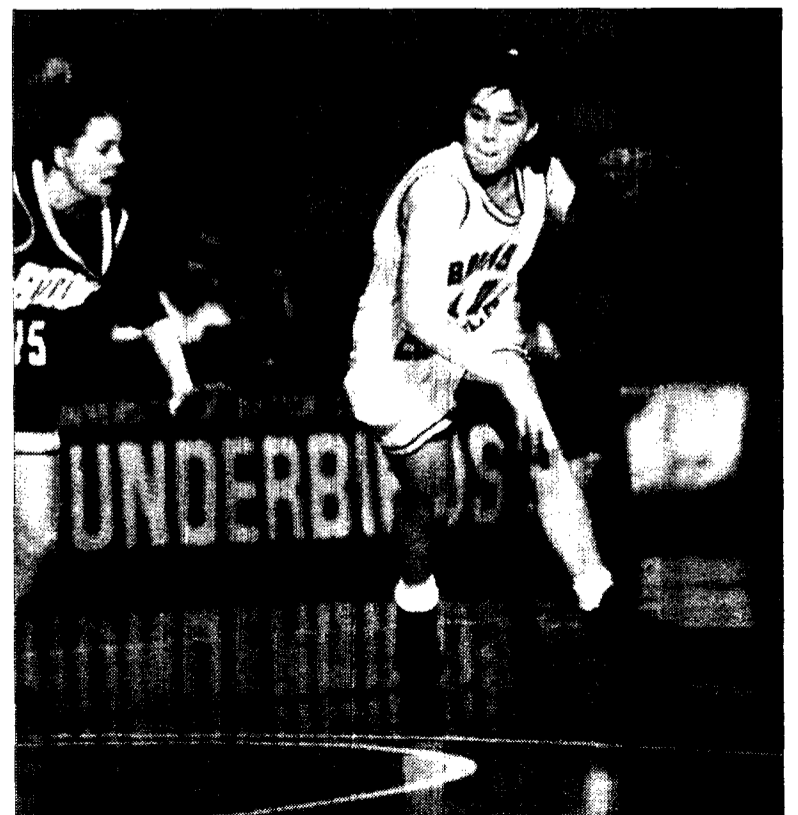
Ross Ballard, 20, from Squamish, and 22-year-old Conrad Leinemann of Kelowna were named to the men's first allstar team. Both Ballard and Leinemann are third-year Physical Education students.

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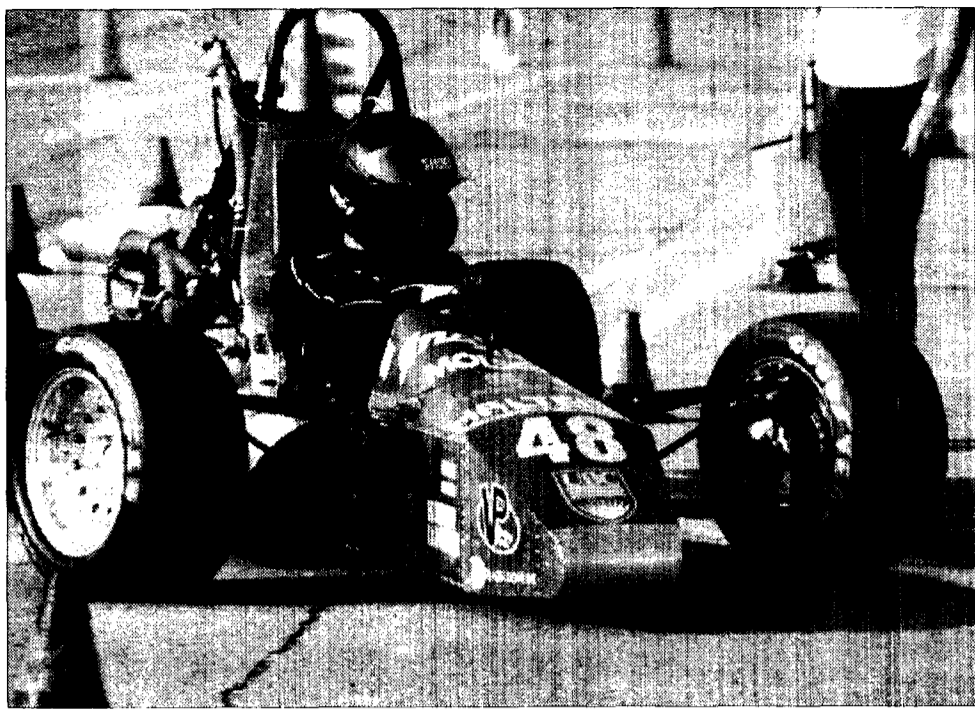
For the second straight year, Thunderbird guard Lisa Nickle is a unanimous selection to the Canada West women's basketball team.

The 22-year-old Abbotsford native and fourth-year Physical Education student was third in conference scoring this year, averaging 18.5 points per game. Her 39-point performance against the Saskatchewan Huskies February 12 broke UBC's single game scoring record.

On the men's side, forward Derek Christiansen shares Canada West player of the year honours with Dean Wiebe of Saskatchewan. Christiansen, a fourth-year Physical Education student, led all Canada West scorers this season with an average of 21.2 points per game. The 22-year-old North Vancouver native was also a unanimous selection to the conference first allstar team.



Lisa Nickle of the Lady T-Birds has come away with unanimous Canada West allstar honours for the second straight season.



Tiemo Brand photo

Geering Up

UBC Engineering students designed and built this scaled-down Formula race car that earned them rookie of the year honours in a continent-wide competition last year. This May, they will race against teams from 65 other universities in a competition held at the Chrysler proving grounds in Detroit, Michigan. The car can reach speeds of 175 km/h and accelerate from 0 to 100 in 5.5 seconds. The team is seeking sponsors to help finance their entry.

Study explains attitudes

Girls needlessly avoid "tough" science courses

by Charles Ker

Staff writer

Many B.C. girls taking Grade 12 physics think it's an irrelevant subject, but sign up anyway, just to keep their options open.

Among Grade 12 students interviewed who aren't taking physics, more girls than boys describe the topic as "useless."

These observations are plucked from a recent B.C. study looking into the low participation rates of girls in senior-level math and science.

The 1990 British Columbia Mathematics Assessment: Gender Issues in Student Choice in Mathematics and Science makes 35 recommendations aimed at attracting more girls to math and physical science courses.

"Most principals, teachers and counsellors we talked to wanted to downplay the gender issues because they believed that to highlight them would only reinforce stereotypes," said UBC Science Education Professor Jim Gaskell, one of four co-investigators of the study to be released this month.

"However, our research suggests this gender-neutral approach only perpetuates biases which contribute to fewer girls than boys enrolling in these courses."

Twelve girls and six boys from a dozen schools around the province were interviewed individually for the study during the school year. Participants were chosen from schools with higher than average and lower than average female participation in math and science.

While boys expressed fascination at the mechanical applications of math and science courses and expected to use them in careers, many girls considered the topics boring and without human significance.

An analysis of enrolment data found only four per cent of Grade 12 girls in physics while 23 per cent signed up for biology. For Grade 12 boys, 14 per cent took physics and 18 per cent biology.

These figures were reflected in the study interviews as most girls enrolled in math and science claimed to enjoy calculus, algebra, biology and chemistry, but expressed a dislike of physics.

Gaskell said while previous studies have noted disparities in participation rates, few have talked to girls about what

their views of math and science are, what they would like to learn in these areas and why they do or do not enrol in them.

The reputation of math and science courses as 'hard' was cited as a major factor in influencing a student's decision to side-step these subjects. Many didn't want to jeopardize their grade point average for the sake of a few courses which were perceived to be of no practical use.

While some girls enjoy and do well in physical sciences, others described sciences as frightening or "just for smart people." Many also felt math and science teachers were only interested in "smart" students which often meant the smart boys.

Said Gaskell: "There's nothing inherent in physics or math that makes them difficult, it's how they're treated in schools that makes them appear that way."

The study recommends that schools develop a variety of "gender-sensitive" strategies to make math and science more attractive to girls. These include:

- helping math and science teachers, through professional development programs, develop ways of incorporating gender issues into class without causing a backlash among boys;
- encouraging curricula revisions which take into account the particular interests of girls;
- hiring more women to teach senior math and physical science courses;
- having schools communicate with parents about the significance of math, science and gender;
- re-writing course descriptions of math and science in school calendars to avoid over-emphasizing the difficulty and sophistication of these topics.

The study also suggests that schools or school districts consider creating a position, to be filled by a woman if possible, to help develop and monitor these strategies.

Most students interviewed had been taught math and science by men but did not spontaneously mention teachers' gender as an issue which might influence their experiences in class.

Other co-investigators in the gender study include: Antoinette Oberg, University of Victoria; Linda Eyre, University of New Brunswick and Arlene McLaren from Simon Fraser University.

Erola wins laurels for promotion of university-industry partnership

by Connie Filletti

Staff writer

Former federal cabinet minister Judy Erola was on campus Feb. 19 to attend a luncheon held in recognition of her continuing efforts to promote research activities among universities and the pharmaceutical industry in Canada.

Erola, who has served as president of the Pharmaceutical Manufacturers Association of Canada (PMAC) since 1987, was hailed as a "true friend of the scientific community" by Bernard Bressler, UBC's associate vice-president, research, health sciences.

"Since assuming her position as president of PMAC, Mrs. Erola has worked tirelessly to promote a partnership between scientists in universities and those working in the pharmaceutical industry," Bressler said.

UBC and its affiliated teaching hospitals have attracted \$8 million in research funds from the pharmaceutical industry since 1991.

Bressler expects that recent parliamentary approval of Bill C-91 will also stimulate an increased flow of research funds to universities from the nation's drug companies.

The legislation restores full patent protection for new drugs to 20 years, ending Canada's compulsory drug licencing policy which allowed cheaper, generic copies of brand-name drugs to be sold before the brand names' patent protection expired.

Passage of Bill C-91 has secured a \$15 million pledge announced by Merck Frosst Canada Inc. last September to establish a Centre for Molecular Medicine and Therapeutics at UBC.

People

by staff writers



Ericson

Richard Ericson has been appointed principal of Green College, UBC's new residential graduate college.

Ericson, currently director of the Centre of Criminology at the University of Toronto, is a fellow of the Royal Society of Canada. He received an undergraduate degree in Social Sciences from the University of Guelph in 1969 and a PhD from the Institute of Criminology at Cambridge in 1974. He began teaching criminology and sociology at the University of Toronto the same year.

In addition to his role at Green College, he will be cross-appointed to the Faculty of Law and the Dept. of Anthropology and Sociology, in the Faculty of Arts.

His five-year term begins July 1.

Green College, which will open in the fall, is funded by a donation from Cecil Green and a matching grant from the Government of British Columbia. It will house 85 graduate students, 15 post-doctoral scholars and visiting faculty and five short-term visitors.

••••

University archivist Christopher Hives has been elected to a two-year term as chair of the board of directors of the Canadian Council of Archives (CCA).

The CCA was established in 1985 to provide an administrative framework to develop a national archival system.

Hives obtained his MA in Canadian history from the University of Western Ontario in 1981 and Master of Archival Studies from UBC in 1985. He is active in a number of archival organizations and has served on the board of the CCA since 1990.

••••

The Canadian Standards Association (CSA) has awarded certificates of merit to Forestry Professor David Barrett and Civil Engineering Professor Richardo Foschi.

The awards were presented for outstanding contribution to the CSA in further standardization of engineering design in wood.

••••

Dr. Harold Copp, professor emeritus of Physiology, has been named a Patron of Science World British Columbia.

A member of the board of directors of Science World between 1987 and 1992, Copp received the honor in recognition of his service and for his important contributions to science.

In 1961 Copp discovered calcitonin, a hormone widely used throughout Europe and Japan for the treatment of osteoporosis and other painful bone diseases.

Science World is dedicated to promoting a greater appreciation of science and technology through exhibitions and demonstrations, informal educational activities and province-wide outreach programs.

••••

The Vancouver section of the Canadian Institute of Forestry has elected Associate Forestry Prof. Chris Chanway and Donna Goss, the co-ordinator of Student Services for the Faculty of Forestry, to its 1993 council.

Goss has been elected treasurer while Chanway is responsible for membership.

The Canadian Institute of Forestry has provided recommendations to the parliamentary committee on the role of federal forestry, with 16 working groups dealing with current forestry issues.

The institute also publishes the Forestry Chronicle, a professional journal.



Copp

Unique brain injury program provides research opportunity

by **Connie Filletti**

Staff writer

The opportunity to gain valuable experience in a pioneering area of brain injury research may be on the horizon for UBC students and faculty in the health sciences.

The Skeleem Village Brain Injury Program, operated by the Cedar Lodge Society, provides behaviour rehabilitation for individuals who are difficult to manage because of acquired head injuries.

Started late last year, the program is the only one of its kind in Canada.



"Brain injury is a universe that we are just beginning to make very early inroads into understanding," said Charles Christiansen, director of UBC's School of Rehabilitation Sciences and a board member of the Cedar Lodge Society.

"Skeleem Village will provide an excellent opportunity for students and faculty to conduct research programs that may eventually contribute to the knowledge of head injury rehabilitation."

Located near Duncan on Vancouver Island, the village is composed of three houses and was originally acquired in the 1970s by philanthropist and longtime benefactor of the university, Walter Koerner.

A patron of the Cedar Lodge Society, Koerner donated the facility to UBC with the understanding that it be used as a centre to provide treatment, care, teaching and research for individuals with neurological disorders, brain damage or who are otherwise mentally handicapped.

One house with accommodation for eight clients is currently being used in the program. The average stay at Skeleem Village ranges from six to nine months at a cost of \$335 a day. Most of the individuals in the program are funded by the Workers' Compensation Board, the provincial Ministry of Health or the Insurance Corporation of B.C.

A team of health care consultants complements the 18 counsellors who work at the village full-time.

"Our approach is to teach and encourage new ways of behaving," explained Penny Offer, executive director of the Cedar Lodge Society. "We want our clients to develop skills, have successes and feel good about themselves."

Offer said this is achieved through repetition and structure in a therapeutic environment.

"There are clear expectations of what the day consists of and what is expected of them."

Clients are taught basic social and life skills and are provided opportunities to practice skills in community, recreational and

vocational settings.

The amount of supervision and cueing they receive depends on their physical abilities, memory retention and concentration.

Another important component of the program is confidence building, achieved through motivational talks, one-to-one interaction with staff and continual feedback of a positive

nature, Offer said.

"The re-learning approach we use is non-punitive and encourages appropriate behaviours."

The Skeleem Village Brain Injury Program is open for referrals from within and outside the province and can be made by health professionals, families, friends or care givers. For more information, contact Offer at 228-1555.

Manual will help families caring for head-injured

Before clients can take full advantage of the unique behaviour rehabilitation program at Skeleem Village, many must undergo acute physical rehabilitation.

But the scarcity of professionals who have the necessary expertise and training — particularly in smaller

communities — to cope with the increasing number of head injury survivors often means that much of their care must be provided at home.

Now, thanks to the efforts of an assistant professor in UBC's School of Nursing, help is on the way for families who provide home care for a head-injured person.

A project team headed by Sonia Acorn developed the country's first manual to serve as a guide for any community wishing to start a support group for family caregivers of head-injured survivors.

Designed in 10 modules, the

manual provides information on the impact on the family system, impact on the caregiver, community resources and legal and financial issues.

"As well as education and support, sharing is the other essential component of the program presented in the manual," Acorn said.



Acorn

"There is great potential for burnout, exhaustion and social isolation for families who provide head injury survivors with care at home. They need to share experiences, feelings and concerns."

The B.C. Ministry of Health estimates that

approximately 6,000 people suffer head injuries serious enough for hospitalization each year.

Production of the manual was funded by the B.C. Health Research Foundation. To obtain a complementary copy, contact Acorn at 822-7457.

UBC Multicultural Liaison Office



Spring mini-conferences co-sponsored with the UBC English Language Institute, the Centre for Faculty Development and Instructional Services, UBC Human Resources, the International Student Centre and the Women's Resources Centre of UBC. Mini-conferences are free of charge.

Racism: Breaking the Silence*

To mark the International Day for the Elimination of Racial Discrimination this mini-conference will provide different perspectives on racism at the educational institution and develop anti-racist strategies.

Date: Friday, March 19, 1993

Time: 8:30 a.m. - 4:30 p.m.

Place: Yorke Room, Cecil Green Park, UBC

Limited spaces available. Please register with the Multicultural Liaison Office at 822-9583. Wheelchair accessible.

Workshop on Research in Ethnic Relations and Cultural Diversity*

This workshop is designed for researchers in the areas of multiculturalism & ethnic relations.

Date: Wednesday, March 31 & Thursday, April 1, 1993

Time: 8:30 a.m. - 4:30 p.m.

Place: Yorke Room, Cecil Green Park, UBC

Limited spaces available. Please register with Olav Slaymaker, Associate Vice President, Research, Humanities, Interdisciplinary Initiatives, and Social Sciences at 822-5159. Wheelchair accessible.

* Sign language interpreters will be available on request. Please contact the Multicultural Liaison Office no later than one week prior to the workshops at 822-9583 to book.

Watch for further workshops in April.

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 25, 1993 issue of UBC Reports is noon, March 16.

Miscellaneous

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FOR RENT Furnished Point Grey house on quiet street. Cable, all appliances, two bedrooms main, one downstairs. Available May 1 for three months. \$1500/month all inclusive. Phone 228-9862 evenings.

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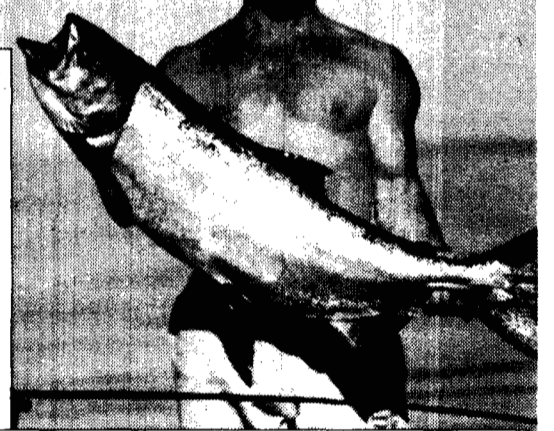


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Profile

by Abe Heffer - Staff writer

Master of (Martial) Arts

Every weekday, Maria and Helen Liang wake up to the sound of concrete blocks being smashed by hand in the basement of their Vancouver home.

These are the sounds of morning in the Liang household.

For Maria, a first-year Science student, and Helen, a second-year Arts student, they signal the start of another school day at UBC. For their father, Shouyu, it's part of the daily warmup routine for the man who has been called Canada's pre-eminent instructor in Chinese martial arts, or wushu.

Since 1984, Shouyu Liang has been the linchpin of the largest and most successful university martial arts program in Canada through Campus Recreation UBC.

Holder of a non-academic endowed chair in martial arts in UBC's School of Physical Education and Recreation, Liang teaches five martial arts courses which are open to the campus and public through Campus Recreation UBC and also coaches the UBC-based Canadian national wushu team.

It is difficult to picture this soft-spoken, 50-year-old father of two as 160 pounds of concrete-smashing power. "I'm a little heavy now," he says somewhat sheepishly while straightening the folds in his cardigan. However, once he slips his five-foot-five-inch frame into his martial arts costume, it becomes obvious, certainly to his students, that this is a man who means business.

Liang was a youngster in China when he discovered that his grandfather meant business, too.

"I was six years old when my grandfather forced me to take up martial arts. It was a tradition in my family for several generations.

"I had to practice four or five hours a day and did not like it. I would always cry before practice, but I had no choice."

Liang says it was several years before he began to appreciate his grandfather's teachings.

He was introduced to several martial arts systems as a youth, including E Mei boxing, which originated in the E Mei mountains of Sichuan province.

By his own admission, Liang was an average adult student as a young boy. It wasn't until he entered Southwest National University in China that his competitive abilities and leadership qualities emerged.

As a 17-year-old, he began to consistently finish in the top three in the Sichuan provincial championships and became the coach of the school's traditional martial arts team.

In 1966, armed with a biology degree, Liang travelled throughout China to learn the more than 150 forms of wushu, which employs broadswords, knives, chains and bare hands among its many systems.

Although it became obvious to him that his skills were improving, Liang says competition during the period of the Chinese Cultural Revolution, up until 1975, was not encouraged by the government.

"I was taught by many famous masters and learned many different forms and styles, using different weapons. I compared myself to other competitors during training and could see that I was improving," he says.



Martin Dee photo

His last taste of championship competition in China came in 1981, when he won five gold medals.

It was as a martial arts instructor, both at the university level while still a student, and subsequently as a high-school teacher, that he gained prominence throughout China.

After being named outstanding professional wushu coach in Sichuan province and one of the premier wushu coaches in China, Liang accepted a position as a martial arts instructor at the University of Seattle in Washington in 1981. He joined UBC in 1984, at a time when the martial arts program on campus consisted of only a handful of courses, according to Sonya Lumholst-Smith, co-ordinator of Campus Recreation UBC.

"I can't begin to tell you how much Liang has meant to the program here," says Lumholst-Smith. "Today there are a total of 20 martial arts courses and clubs at UBC, and that number is growing."

Lumholst-Smith describes Liang as a tireless worker, and incredibly humble.

"His students think the world of him

and many return after graduation to continue martial arts classes under his guidance."

Helen and Maria Liang are among his advanced students.

"The expression on my father's face is enough to get results in his martial arts class," says Maria, who, at 18, has been studying martial arts for seven years.

"He doesn't have to say a word. Although I enjoy being taught by my father, he is quite strict and has a very strong presence in class."

Liang agrees.

"I am very

serious when I teach competitive class. My students respect and fear me."

Unlike her sister, who began studying martial arts in China as a four-year-old, Maria took up classical dance while living in China and turned to ballet at the age of 11, after arriving in Vancouver.

"Much to my father's credit, he never forced me to study martial arts. It was after I began watching him teach wushu at UBC that I became interested in it."

Maria and Helen are now showing the leadership qualities exhibited by their father during his university days.

Shouyu Liang:

"I was six years old when my grandfather forced me to take up martial arts. It was a tradition in my family for several generations.

I had to practice four or five hours a day and did not like it. I would always cry before practice, but I had no choice."

by helping him instruct the beginners at his UBC classes.

If the day comes when he becomes a grandfather, Liang said he would expect his grandchildren to take up martial arts, as well.

"Maybe I'll teach them, like my grandfather taught me. I would probably be much easier on them than my grandfather was on me."

Despite his many accomplishments over the years, Liang has shown few signs of slowing down. During the summer months, he teaches martial arts at two U.S. universities and travels the world as a guest lecturer. The author of four books on the martial arts, he plans to write more in his continuing quest to educate the world on the physical and mental benefits of wushu.

Despite his busy schedule, Liang's personal and professional demeanour remain akin to one of the most popular, and ultimately, most powerful wushu systems: Tai Chi.

Tai Chi enhances relaxation of the body and mind. As a martial art, it teaches economy of force, using the supple to defeat the strong.

It is meditation in motion, improving concentration while developing flexibility and strength, explained Liang.

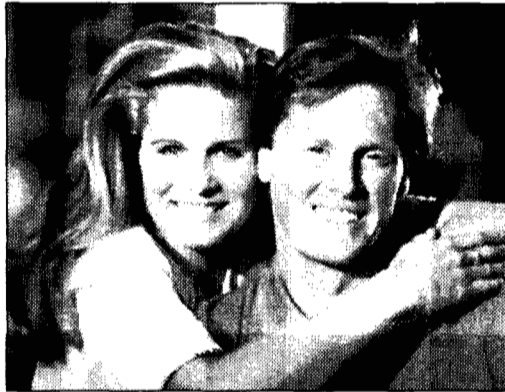
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