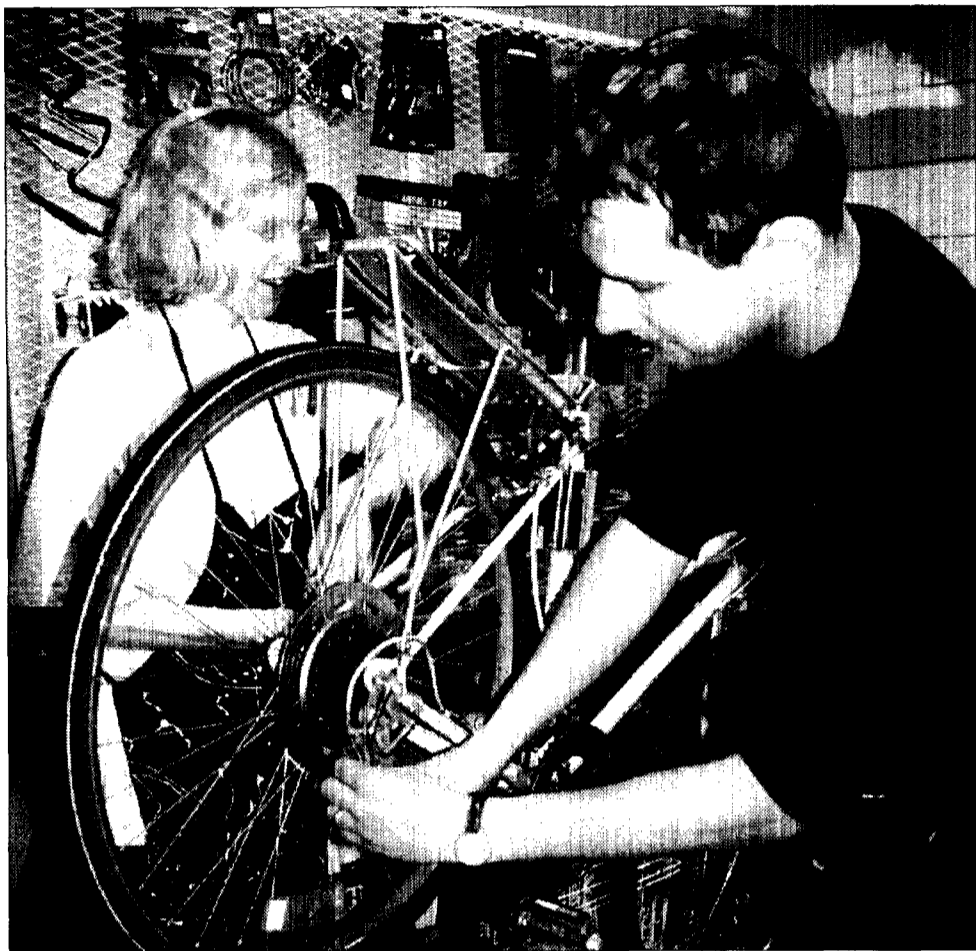


UBC REPORTS

Volume 45, Number 4

February 18, 1999

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Hilary Thomson photo

Gearing Up

Jason Addy of Our Community Bikes! instructs fourth-year Arts student Laurie Mossop in the art of bicycle maintenance at the newly opened AMS Bike Kitchen located in the basement of the Student Union Building. On March 4, cyclists can join other campus commuters to "March Forth to UBC" using alternative transportation. The event is sponsored by the UBC TREK Program Centre. For more information on March Forth, visit www.trek.ubc.ca or call (604) 827-TREK (827-8735).

Bike Kitchen opens for business on campus

Got a sick bike and nowhere to fix it? Cyclists can now use repair facilities at the Alma Mater Society Bike Kitchen.

"We want to support all bike users as part of our plan to reduce single vehicle traffic at UBC by 20 per cent over the next five years," says Gord Lovegrove, UBC's director of Transportation and Planning.

Open to members of the public and the UBC community, the campus repair shop rents do-it-yourself fix-it space for \$5 per hour. The facility can provide a repair assistant for \$10 per hour. Bikes can be dropped off for repair for \$30 per hour.

The Bike Kitchen also sells items such as locks, lights and reflective gear.

Free mechanic training is available for

students who volunteer at the shop.

A portion of the proceeds from the shop will support the Alma Mater Society Bike Co-op program. The co-op has a fleet of more than 50 recycled bikes that can be used by co-op members on campus.

Located in Room 41 in the Student Union Building, the Bike Kitchen is open Tuesday to Thursday from 11 a.m. to 6 p.m. Customers can reach the shop from the loading dock at the northeast corner of the building or by following the signs along the hallway between the Bank of Montreal and the video arcade.

For more information call 82-SPEED (827-7333) or visit the Web site at www.trek.ubc.ca/bikecoop

Survey winner chosen

Lee Tran, a secretary in the Office of the Vice-President, Administration and Finance, is the winner of a \$100 UBC Bookstore gift certificate in the draw held for early respondents to the UBC Reports Readership Survey.

Tran was one of more than 1,000 individuals who returned the survey in

the mail or through the Web by Feb. 15. Forms were distributed to all UBC faculty and staff.

Last day for returning the survey, which is available on the Public Affairs Web site at www.publicaffairs.ubc.ca/reports, is Feb. 22.

Arts, Science scholars earn top research prizes

by Hilary Thomson

Staff writer

English Dept. head Prof. Sherrill Grace and Physics Prof. Janis McKenna have been awarded UBC's top research prizes for 1998.

Grace, who has written or edited more than 140 articles and reviews and published nine books, has won the Jacob Biely Faculty Research Prize in recognition of her distinguished record of published research.



Grace

McKenna has won the Charles A. McDowell Award for Excellence in Research. The award recognizes achieve-

ment in pure or applied scientific research.

McKenna studies the forces between quarks, the basic constituents of all matter, as specified in the standard model of particle physics.

Grace's focus is 20th-century Canadian literature and culture, comparative Canadian and American literature and interdisciplinary studies in literature, art, film, theatre and music of this century.

A recognized expert on the work of writer Malcolm Lowry, Grace recently edited *Sursum Corda: The Collected Letters of Malcolm Lowry*. She has also edited a special edition of Lowry's short stories, written when the

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McKenna

Noted academic new Commerce dean

UBC has appointed Daniel F. Muzyka, a noted academic with extensive private sector experience, dean of the Faculty of Commerce and Business Administration following an international search.

"I am very pleased that Daniel Muzyka is joining UBC," says Barry McBride, vice-president, Academic and Provost. "I think he will bring outstanding leadership to the Faculty of Commerce and Business Administration. He brings experience from some of the finest institutions of business education in the world as well as corporate



Muzyka

Professor of Entrepreneurship and was

experience in both large and small companies."

Muzyka, presently on sabbatical at Harvard Business School, comes to UBC from INSEAD, a leading institution in international management education in Fontainebleau, France.

He most recently served as director of INSEAD's research centre dedicated to the study of entrepreneurship, the 3i Venturelab. Muzyka was also the INSEAD Alumni Fund

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Killam

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author was 17 years old. The book will be published in March.

Another work soon to be published is *Staging the North*, a collection of 12 Canadian plays co-edited with colleagues Eve D'Aeth, a professor at Yukon College in Whitehorse and Lisa Chalykoff, a UBC English Dept. graduate student.

Grace is also writing a cultural study, *Canada and the Idea of North*, which looks at the history, geography, politics, art and literature of Canada's North.

A past recipient of the F.E.L. Priestley Award, a national award for a scholarly essay or article, a UBC Killam Research Grant and a 1991 Killam Research Prize, Grace is also a fellow of the Royal Society of Canada and a senior fellow of Green College.

Working at the European Laboratory for Particle Physics in Geneva, McKenna and colleagues have been conducting the highest precision tests ever made of the union of weak and electromagnetic forces. Weak forces, one of the fundamental physical interactions, are responsible for radioactive decay.

She is also searching for new fundamental particles or interactions that are not part of the standard model.

Another experiment at the Stanford Linear Accelerator Center is aimed at building understanding of the asymmetry between matter and anti-matter.

Most Big Bang theories predict equal parts of matter and anti-matter in our universe yet there is no evidence of places in the universe consisting of anti-matter.

McKenna and colleagues are reconstructing tens of millions

of sub-atomic particles in the experiment to try and gain insight into the asymmetry.

In 1993 McKenna won the Natural Sciences and Engineering Research Council Women's Faculty Award.

The \$5,000 UBC Killam Research Prizes have also been awarded. The prizes are equally divided between arts and sciences disciplines.

The recipients are: Laurel Brinton, English; Garry Clarke, Earth and Ocean Sciences; Pamela Dalziel, English; Sian Echard, English; John Gosline, Zoology; Charles Haynes, Biotechnology Laboratory and Chemical Engineering; Ralph

Sarkonak, French; John Scheffer, Chemistry; Jack Snoeyink, Computer Science; and Peter Ward, History.

Also announced were the recipients of the Isaac Walton Killam Memorial Fellowships. The fellowships top up faculty salaries by up to \$15,000 during sabbatical leaves. Scholars also receive a \$3,000 grant for research and travel expenses.

Recipients are: Joan Anderson, Nursing; Bruce Buffet, Earth and Ocean Sciences; David Green, Economics; Samir Kallel, Electrical and Computer Engineering; Lawrence McIntosh, Chemistry; and Jerry Schmidt, Asian Studies.

Muzyka

Continued from Page 1

formerly associate dean of the institute's MBA program.

"I am looking forward to the opportunity — building on the strong research tradition of UBC — to increase the faculty's recognized impact on business and management through continued and enhanced excellence in research, teaching and involvement with the business community," says Muzyka.

Muzyka has been a strategy analyst with General Electric and was employed in the company's finance operations. He also served as director of the Wharton School Computer Centre at the University of Pennsylvania. As a consultant, he has undertaken business and market strategy studies for both private and public sector international clients.

Muzyka received his doctorate from Harvard specializing in busi-

ness policy and entrepreneurship. He received a Master of Business Administration with distinction from Wharton with a concentration in strategic planning.

He earned his BA with honours in physics and astronomy from Williams College in Williamstown, Mass. Muzyka also studied and conducted research at the California Institute of Technology as well as the Max Planck Institute for Radio Astronomy in Bonn.

Muzyka is the co-author and editor of several books related to business and commerce, including *Mastering Enterprise*, which was published in a series of installments in the *Financial Times*, the *Financial Post* and other business newspapers around the globe.

He is expected to take up his appointment later this summer.



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UBC REPORTS

UBC Reports is published twice monthly (monthly in December, June, July and August) for the entire university community by the UBC Public Affairs Office, 310 - 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1. It is distributed on campus to most campus buildings.

UBC Reports can be found on the World Wide Web at <http://www.publicaffairs.ubc.ca>

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Medical researchers garner MRC millions

UBC health scientists have received research grants worth almost \$4.5 million from the Medical Research Council of Canada (MRC).

Researchers from disciplines ranging from ophthalmology to psychiatry will study health challenges such as lung disease, cancer and birth defects.

"Several good projects have been funded, but I am disappointed with our overall success rate this year," says Bernard Bressler, vice-president, Research. "Our goal in subsequent competitions will be to significantly increase the number of approved grants."

Fifteen of 99 UBC projects submitted were approved for funding.

Determining if there are occupational risk factors that contribute to Parkinson's disease is the focus of a three-year research project for Assoc. Prof. Joseph Tsui of UBC's Neurodegenerative Disorders Clinic.

"Our goal is to trace the cause of this disease," says Tsui. "Investigating possible workplace connections may give new information to add to our knowledge about genetic and other factors that influence Parkinson's."

Tsui will work with B.C. physicians and 600 consenting Parkinson's disease patients to get detailed information about occupational environments. Another 600 people will be recruited for a control group.

Parkinson's disease, a chronic nervous disease characterized by a slow spreading

tremor, muscular weakness and a peculiar gait, affects 80,000 Canadians.

Pathology Prof. James Hogg is investigating how inhaled particulate pollutants affect body systems other than the lungs or pulmonary system.

When particles of cigarette smoke, wood smoke or other pollutants enter the lungs, they are processed by protective cells called alveolar macrophages.

Chemical products from these cells enter the blood and stimulate the bone marrow and the liver. The bone marrow overproduces circulating white blood cells and the liver creates an excess of proteins important for coagulation.

These changes may aggravate existing lung and cardiovascular illnesses according to Hogg, and account for increased hospital admissions and deaths associated with air pollution.

By unraveling the exact mechanism of pulmonary and cardiovascular injury associated with air pollution, Hogg and his research group aim to lessen the effects of inhaled pollutants.

UBC ranks among the four top funded research universities in Canada with McGill University, the University of Toronto and the University of Montreal.

MRC distributed a total of \$108 million in funding for health research grants and clinical trials over the next five years.

A list of the MRC granting recipients at UBC and a brief summary of the projects can be found on the MRC Web site at www.mrc.gc.ca.



Hilary Thomson photo

Figuring Out Figaro

School of Music graduate students Sandra Stringer (left) and Alexandra Tait share fashion tips in a rehearsal of the dressing aria scene from Mozart's *Marriage of Figaro*. A production of UBC's School of Music and the Frederic Wood Theatre, the performance runs Feb. 25-28 at the Chan Centre for the Performing Arts. Tickets are \$15 (\$10 for students and seniors) and are available through Ticketmaster at (604) 280-3311 or at the Chan Centre Box Office.

Survey finds students wary of condom shelf

by Bruce Mason

Staff writer

A survey of 130 UBC students by Commerce researchers has discovered that 66 per cent of men and 60 per cent of women report some level of embarrassment when buying condoms.

The researchers worry that reluctance to be seen buying condoms is a roadblock to having safe sex. They recommend that the contraceptives be sold in candy, snack and cigarette vending machines to save red faces and lives.

"People who reported being embarrassed when buying condoms, purchased less often and if you don't have condoms, obviously you can't use them," said Commerce Prof. Chuck Weinberg, chair of the marketing division of UBC's Faculty of Commerce and Business Administration.

Weinberg was part of the research team along with UBC marketing Prof. Gerald Gorn and Darren Dahl, an assistant professor of marketing at the University of Manitoba and graduate of UBC. Their findings are published in the latest *Canadian Journal of Public Health*.

Eligible respondents were sexually active, had previously purchased condoms, and were single without a steady sexual partner.

Eighty per cent of those who said they were embarrassed rated being spotted at the cashier as more intimidating than being seen in the display area. The level of embarrassment wasn't correlated with gender, age, number of sexual partners or whether the buyer lived at home.

"Approaching the cashier is the moment of truth," says Weinberg. "There is also the worry that a 'price check in aisle

3 on a 12-pack of Durex condoms' will be announced to the entire store."

Studies show that students take risks — only half used a condom during their last sexual encounter.

An earlier research project by the UBC marketing team found that less than five per cent of students entering a bar carried condoms, despite the fact that student sex is often decided spontaneously at parties and bars under the influence of alcohol.

While potential barriers to condom use, such as reduced pleasure and the influence of alcohol, have been the subjects of an increasing body of research, barriers to condom purchase are only now being explored.

Embarrassment stems from being seen to be expecting or wanting to have sex says Weinberg.

"That's surprising. Given the amount of sexually transmitted disease, you would expect that purchasing condoms would be viewed as desirable and an important social good."

"Yet it is difficult for students to find non-embarrassing places to buy condoms," he adds. "Because other people wouldn't know what was being purchased, it would be a very effective health strategy if condoms were sold in candy or cigarette machines."

He believes that discussing safe sex in the media and movies would help promote the practice among the young. Lowering embarrassment about buying and using condoms by making them a more openly discussed product would also be useful.

Weinberg thinks it's unfortunate that most vending machines don't sell major brands of condoms.

"If you are buying last-minute, you want to be certain you can trust it," he says.

AMS president vows to put society in touch

Ryan Marshall, a fourth-year Theatre student, was elected president of the Alma Mater Society (AMS) in student elections held recently.

Marshall collected 987 of the 2,602 ballots cast, defeating Daniel Arbour, Scott Morishita and John Hallett for the top AMS job — a full-time position, which pays \$16,000.

The new president says one of his top priorities is to put the AMS more in touch with students.

"I think the AMS has lost touch with its mandate," says Marshall. "We need to get more students involved with the decision-making process of the AMS and the university."

Marshall ran under the Students for Students slate along with Maryann

Adamec, a second-year Commerce and Business Administration student elected vice-president, and Tina Chow, a third-year Arts student elected director of administration.

Karen Sonik, third-year Arts, was elected director of finance and Nathan Allen, third-year Arts, won the vote for co-ordinator of external affairs. Both students ran for the Action Now team.

Elected to the Board of Governors is Jesse Guscott, third-year Science. The remaining board position is to be decided pending an investigation of voting irregularities.

Marshall says student housing is a major concern of the new AMS executive. He says 4,500 students are on the

waiting list for residences. He's skeptical about plans to relocate the fraternity and sorority houses on Wesbrook Mall to build more housing.

"I think UBC's plan is to build more private, high-end residential complexes like Hampton Place. What we need is

more student and faculty housing to draw top professors," Marshall says.

The quality of education is also a priority. Marshall wants the AMS to lobby governments for funding increases to support more quality professors.

Stable tuition is another issue of concern. Marshall says if the provincial government is going to continue with the tuition freeze, it needs to increase the funding to match infla-

tionary increases for salaries, utilities and other basics.

"A long-term plan has to be drawn up so students know what they will be paying for their education from the time they enter UBC to the time they leave," he says.

Marshall takes over the job Feb. 26 from outgoing president Vivian Hoffmann.

Scott Morishita, the presidential candidate who placed third, disputed the election. AMS ombudsperson Trevor Franklin recommended that the presidential race be overturned. The AMS council voted against the motion but plans to redevelop electoral procedures.



Marshall

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Lowry treasure snapped up for Library's collection

by Susan Stern

Staff writer

The UBC Library has made a unique and exceptional addition to its Malcolm Lowry collection, the largest in the world, with the recent acquisition of Lowry's personal, first edition copy of his first novel *Ultramarine*.

Lowry's most successful novel, *Under the Volcano*, is ranked as one of the major English literary works of the 20th century.

The annotated copy of *Ultramarine*, regarded as a treasure by Lowry scholars, was placed on sale at the Pacific Book Auction in San Francisco last fall by a friend of Lowry's late wife.

"My heart leapt in anticipation of this unique item and subsequently dropped when I learned it was expected to fetch between \$20,000 and \$25,000 (US)," says Brenda Peterson, head of Special Collections and University Archives.

Peterson immediately informed Sherrill Grace, the author of three books about Lowry and head of the English Dept.

Together with Bernie Bressler, vice-president, Research and Barry McBride, vice-president, Academic, they agreed to attempt to purchase *Ultramarine*, a difficult feat in times of budget restraint and a very low Canadian dollar.

Peterson, who had never participated in an auction, did the bidding by phone. She had a maximum budget of \$21,500 (US).

"The operator said \$14,000 and I said yes," says Peterson.

"It was the minimum bid and luckily we were the only one in the running."

Grace says UBC didn't even consider going after an even more expensive first edition collector's copy of *Under the Volcano* that was also up for auction.

"We already have the first edition of *Volcano* and *Ultramarine* is the ultimate scholar's prize," she says.

Ultramarine is the story of a naive young upper-class Briton who goes to sea as a deckhand

their authors would like to buy up all the copies of and burn and then forget that they had written."

Even so, *Ultramarine* showed his creative genius. The book was well received and was out of print by 1935.

"It is a messy book, dog-eared and full of staples and scotch tape with pencil hand-writing all over it. It isn't very pretty," says Grace. "What we see in his copy of the book are the changes, in his own writing, which he never lived to complete."

The small dark blue hard-cover book has been professionally restored to preserve it.

UBC Librarian Catherine Quinlan says *Ultramarine* is a very important addition to the Malcolm Lowry collection which includes his manuscripts, letters and personal papers.

"We were thrilled to acquire the book. Scholars come from all over the world to UBC to study Malcolm Lowry," Quinlan says. "We've already had half a dozen inquiries about *Ultramarine*."

Lowry, the black sheep of a British business family, was a binge alcoholic with a dark, destructive side.

For years he lived in a simple cabin in Dollarton in North Vancouver, where he eked out a living writing articles, *Under the Volcano*, and working on new stories and novels. Lowry eventually returned to England where he died at the age of 48.

The Lowry Collection is housed in the Special Collections and University Archives division in Main Library.

"It is one of those pieces of juvenilia that their authors would like to buy up all the copies of and burn."

— Malcom Lowry

on a freighter in the 1920s and is subjected to rough treatment by the working class crew.

Lowry made a similar voyage between leaving public school and entering university and said it was a very unpleasant experience. He grew to dislike *Ultramarine* even more.

"In the book that was published 20 years ago in England there's probably scarcely an original line," Lowry wrote in 1952. "Everything is derived, pastiche, hash. In short it is one of those pieces of juvenilia that

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Hilary Thomson photo

Schools with heart are schools with volunteers says Education Prof. Dan Brown. In a recently published book, he suggests volunteers can help solve many of the problems facing public schools today.

Volunteers' role key to healthy public schools

by Hilary Thomson

Staff writer

School volunteers are often associated with non-essential activities such as bake sales, sports days and field trips.

In his recently published book, *Schools with Heart*, Prof. Dan Brown of the Dept. of Educational Studies suggests this view underestimates what volunteers really bring to public schools. He believes that the use of volunteers may be one of the key solutions to the problems facing public elementary schools today.

"The state can pay the bills but it can't love a school," says Brown. "Schools with heart are rich in community connections through the volunteers' donation of time and energy."

His team of graduate students in the Educational Administration and Leadership Program conducted 185 interviews with principals, teachers and volunteers in elementary schools in the Lower Mainland and Vancouver Island.

They found that voluntarism partially addresses problems of insufficient resources, excess of bureaucratic control and social dislocation of many pupils' lives.

"Schools will remain healthy because of volunteers, not in spite of them," says Brown.

His research showed volunteers helping with activities such as reading assistance, supervision, fundraising and administrative tasks.

In addition, volunteers provided specialized instruction according to their own personal skills and interests. One mother who worked as a police constable talked to kids about her job and a First Nations grandfather gave a carving demonstration.

"Volunteers are more than a pair of helping hands," says Brown. "They contribute to the social life of the school. They engage in the moral development of our children by teaching them that education is important and people are worth

supporting with a donation of time."

The research found volunteers in schools in both wealthy and low-income neighbourhoods. They are usually Caucasian mothers who do not work full-time. Extended family members, college students and other community members also serve as volunteers.

Some get involved to take responsibility for their community into their own hands. Others want to improve their language or employment skills or just enjoy the company of children.

"I like to keep a pulse on what's going on in the school," says Anita Schmitt, who is the mother of a student and a volunteer at West Vancouver's West Bay Elementary School.

"Having the opportunity to improve the kids' environment, dealing with a variety of issues and people and being able to accomplish things keeps me motivated," says Schmitt, who has been involved in everything from barbecues to beautification projects in her five months as a volunteer.

For the most part, teachers and staff members welcomed volunteers and former lines of demarcation between parent territory and teacher territory were relaxed, Brown says. Some union members opposed the use of volunteers in principle because of the threat to jobs.

The presence of volunteers in a school represents a significant increase in workload for principals as individuals must be matched to tasks, run through criminal records checks and their performance monitored and recognized, Brown says.

Despite the additional work, most principals saw voluntarism as a way to help their school survive budget cuts and reduce dependency on government.

Brown hopes his findings will inform educators, school reformers and policy-makers. His book includes recommendations such as including volunteer coordinators to attract additional resources to the school.

Students home away celebrates 40 years

by Susan Stern

Staff writer

UBC's International House has been a home away from home for many students from abroad and a unique meeting place to make lasting friendships with Canadian students, faculty and staff for 40 years. It celebrates its anniversary next month.

The anniversary festivities begin with a ceremony at International House March 1. It will be followed by a reception hosted by UBC President Dr. Martha Piper for international alumni and volunteers who have been associated with International House over the years.

"International House is a symbol of the international community at UBC," says Winnie Cheung, director of International Student Services. "It continues to be a gathering place for international students, Canadian students, faculty and staff who are interested in helping and learning from their international counterparts."

International House, the centerpiece of International Student Services, hosts social events as well as activities such as martial arts classes, ESL lessons and lectures — not only for international students, but also for anyone who is internationally minded, says Cheung.

"For people who have never traveled outside of North America, International House affords an opportunity to step into many different cultures," Cheung says.

International Student Advising Services have a variety of special programs to meet the needs of international students.

Most international students receive a pre-arrival information package. When they arrive, help is offered for issues including visa problems and cross-cultural adjustments to Canadian life.

"International students can have difficulty adjusting to UBC classroom culture," says Cheung.

International House was organized in the 1950s by former UBC president Norman MacKenzie, faculty and members of local Rotary Clubs. One of the wartime huts on West Mall served as the first International House.

Funded by Vancouver Rotary Clubs and the provincial government, International House opened on the corner of West Mall and North West Marine Drive March 4, 1959. Former U.S. first lady Eleanor Roosevelt and renowned anthropologist Margaret Mead were among the guests.

International House is one of the largest volunteer organizations on campus with some 400 student, faculty, staff and community volunteers.

"After 40 years, International House will continue to do what it does best — serve people who feel culturally displaced and to make them feel welcome at UBC and in Canada," Cheung says.

A highlight of the weeklong events marking the anniversary is Festiva 99, a multicultural festival to be held March 5, featuring displays, performances and food from around the world. A number of seminars are also being held.

For details of anniversary events, call 822-5021 or check the Web site www.student-services.ubc.ca/internat/.



Eleanor Roosevelt and former UBC president Norman MacKenzie

Workshop puts focus on sustainable forestry

Does good forestry sometimes look bad? Do public perceptions of good forestry match the reality? Those are among the key questions to be asked in a groundbreaking international workshop at UBC from Feb. 24-27.

"Linking Forest Sustainability to Aesthetics: Do People Prefer Sustainable Landscapes?" is part of the Peter Wall Institute for Advanced Studies Exploratory Workshop Programs. It is open to the UBC community.

"The public clearly equates visual degradation of landscapes with unsustainable practices," says Stephen Sheppard, workshop organizer and an associate professor of Forest Resources Management and Landscape Architecture.

"Experts seem to be divided — some see a strong association between ecological health and visual quality; others think sustainable forest practices don't fit the conventional public perception of attractive landscapes," he says. "A new aesthetic is needed."

Sheppard believes that widely differing perceptions of landscape quality must be resolved through research and education if there is to be lasting public support for sustainability in forest resource management.

An interdisciplinary group of researchers at UBC, led by the Faculty of Forestry, is hosting the workshop which includes ecologists, forest resource scientists and perception experts. They will debate relationships between ecol-

ogy and aesthetics and develop research plans to help find answers.

The public and practitioners will have an opportunity to interact with visiting scientists at the Centre for Advanced Wood Processing in UBC's new Forest Sciences Centre on Feb. 26, from 8:30 a.m. — 4:30 p.m.

The workshop will also explore how to link forest ecosystem modeling to state-of-the-art virtual reality displays, in order to test the social acceptability of future forest management plans.

"New computer visualization technology is emerging with exciting possibilities for bridging the gap between disciplines and between forestry experts and lay people," says Sheppard.

A public open house session, on Friday afternoon, Feb. 27, will feature an unprecedented gathering of state-of-the-art computer visualization programs.

Funding from the Peter Wall Institute and the Faculty of Forestry has made the participation of international researchers and the general public possible.

Speakers include Daniel Botkin, a leading author and Biology professor at George Mason University, Jeff Burley, director of Oxford University's Forestry Institute, and Terry Daniel, a professor of Psychology and Renewable Natural Resources at the University of Arizona.

For more information check the Web site, www.forestry.ubc.ca/pwall/default.htm, or contact Sandra Schinnerl at (604) 822-9627.

Calendar

February 21 through March 6

Monday, Feb. 22

Lectures In Modern Chemistry

Hybridization As A Metric For The Progress Of Chemical Reactions. Prof. Robert C. Haddon, U of Kentucky. Chemistry D-225 (centre block) at 11:30am. Call 822-3266.

First Nations Discussion Circle

A Reading From Her Works. Louise Halfe. First Nations at 2:30pm. Call 822-1878.

Mechanical Engineering Seminar

Machinery For Engineered Wood Products. Cliff Bowering, Raute Wood. CEME 1204 from 3:30-4:30pm. Refreshments. Call 822-3770.

Intersecting Asian

Sexualities Series Lecture
Otherness And Sexual Violence: The Legacy Of Indonesia's New Order. Saraswati Sunindyo, U of Washington. CK Choi #120 from 4-5:30pm. Call 822-2629; 822-4688.

Astronomy Seminar

Astrophysics And 50 Years Of The Hale 200" Telescope. Don Osterbrock, U of California Lick Observatory; George Ellery Hale, CalTech. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-2267.

Member Speaker Series

Serengeti Symphony. Grant Hoppcraft, Zoology. Green College at 5:30pm. Call 822-1878.

Thematic Lecture Series

What Is Tradition When It Is Not Invented?: A Tradition Of Rights. Gordon Schochet, Political Science, Rutgers U. Green College at 7:30pm. Call 822-1878.

St. John's College Speaker Series

Resident Poetry Reading. Jackie Seidel. St. John's College Fairmont Lounge at 8pm. Call 822-8788.

Tuesday, Feb. 23

Chalmers Institute Seminar

The Trinity Revisited. Rev. Nancy Cocks; Rev. Bill Crockett. VST from 9:30am-4pm. Continues to Feb. 24. \$100; \$50 seniors; \$90 group. To register e-mail ci@interchange.ubc.ca or call 822-9815.

UBC Botanical Garden Lecture Series

Summer Bulbs For Gardens And Patios. Judy Newton. Botanical Garden reception centre from 12noon-1pm. \$5 at the door. To register call 822-3928.

Microbiology And Immunology Seminar

Mycobacterium - Macrophage Interactions. Richard Stokes, B.C. Research Institute. Westbrook 100 from 12:30-1:30pm. Call 822-3308.

Botany Seminar

Causes And Consequences Of Biodiversity Changes In Arctic Tundra. Greg Henry, Geography. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Xerox Lecture

Curved Carbon. Prof. Robert C. Haddon, Chemistry, U of Kentucky. Chemistry B-250 (south wing) at 1pm. Refreshments at 12:40pm. Call 822-3266.

Statistics Seminar

Applications Of State-Space Models. Claus Dethlefsen; Bjarke

Klein, Mathematics, Aalborg U. CSC1301 from 4-5:30pm. Refreshments, please bring your mug. Call 822-0570.

Memorial Service

In Memory Of Al Fowler, 1935-1999. Music Recital Hall at 4pm. Call 822-4636.

Graduate And Faculty Christian Forum

Imagining The Universe: The Discourse Of Cosmology. Denis Danielson, English. Buchanan B-221 at 4:15pm. Refreshments at 4pm. Call 822-5176.

Green College Speaker Series

The Politics Of The Booker Prize. Tracy Prince, English. Green College at 5pm. Reception from 6-6:30pm. Call 822-1878.

Green College Special Lecture

The Brideship. A 55 Minute Tape Presentation Of His Work. Followed By Discussion. Robert Turner, Canadian composer. Green College at 8pm. Call 822-1878.

Wednesday, Feb. 24

Orthopedics Grand Rounds

Report From The AAOS. Chief residents. VGH, Eye Care Centre Aud. at 7am. Call 875-4192.

Centre For Management Development Seminar

Strategic Planning In Technical Environments. Anthony Board; Iain Cockburn. Angus from 9am-4:30pm. Continues to Feb. 26. \$1295 includes workbooks, refreshments and lunch. To register call 822-8400.

Continuing Studies Public Lecture

From Salt To Opium: Chinese Commodities And Cargoes Through The Ages. Vancouver Public Library (downtown) Peter Kaye Room from 10-11:30am. Continues to Mar. 31. \$65; \$55 seniors. To register call 822-1420.

Surplus Sale

Task Force warehouse from 12noon-5pm. Call 822-2813; 822-2582.

Continuing Studies Public Lecture

The Nisga'a Treaty: Where Do We Go From Here? Various speakers. Vancouver Public Library (downtown) Peter Kaye Room from 12noon-1:30pm. Continues to Mar. 17. \$45; \$35 seniors. To register call 822-1420.

Faculty Financial Planning Lecture Series

RRIFs, LIFs, Annuities, OAS, CPP... Jim Rogers, The Rogers Group. Angus 110 from 12:30-1:20pm. Call 822-1433.

School Of Music Concert

Wednesday Noon Hours. Gordon Cherry, trombone; Edward Norman, organ. Music Recital Hall at 12:30pm. \$3 at the door. Call 822-5574.

Centre For Japanese Research

The Kumiya: The Wide World Of A Maritime Trader In Sixteenth Century Japan. Prof. Isao Soranaka, History, U of Western Ontario. CK Choi 120 from 12:30-2pm. Call 822-2629.

Centre For Research In Women's Studies and Gender Relations

Sentimental Men. Mary Chapman, U of Alberta. Women's Studies Centre lounge from 12:30-1:30pm. Call 822-9171.

UBC Teaching Community TAG Seminar

Professional Relationships And Personal Boundaries For T.A.s. David Lam basement seminar room from 1:30-4:30pm. To register call 822-9149.

Obstetrics And Gynecology Research Seminar

Cadherin-II In The Human Endometrium. Dr. George Chen. B.C.'s Women's Hosp. 2N35 at 2pm. Call 875-3108.

Geography Colloquium

Measuring Microbial Biodiversity: Effects Of Fire On Mycorrhizal Fungal Communities And Associated Bacteria. Keith Eggers, U of Northern B.C. Geography 201 at 3:30pm. Call Trevor Barnes 822-5804.

Nursing Rounds

The Breastfeeding Partnership: Analysis Of Video-Taped Mother-Infant Behaviors. Roberta Hewat, asst. prof. UBC Hosp., Koerner Pavilion G-279 from 4-5pm. E-mail: edna@nursing.ubc.ca or call 822-7453.

BC ASI/CICSR Lecture

Jagged Little Pill - Ottawa's New Tax On Recordable Media. Dan Howton. Precision Sound Corp. CICSR/CS 208 at 4pm. Refreshments. Call 822-6601.

Geophysics Seminar

Bayesian Blocks: A New Method Of Data Analysis. Jeffrey Scargle, Ames/NASA. Geophysics/Astronomy 260 at 4pm. Call 822-4108.

Ecology, Evolution And Biodiversity Seminar

The Hierarchical Structure Of Co-Evolution: An Example In Detail. Prof. John Thompson, U of Washington. FNCS 60 at 4:30pm. Call 822-2069.

Respiratory Research Seminar Series

The Use Of HRCT To Measure Airway Dimensions And Functions In Normals And Asthmatics. Dr. Peter Pare; Dr. Greg King, Medicine. VGH, doctors' residence conference room from 5-6pm. Call 875-5653.

Medieval And Renaissance

The Twelfth Century As An Age Of Decline. Stephen Jaeger, Germanic Studies, U of Washington. Buchanan 222 at 5pm. Call 822-1878.

19th Century Studies

L'Idiot Du Voyage: Projections, Productions, Performances. Derek Gregory, Geography. Green College at 8pm. Call 822-1878.

Thursday, Feb. 25

Occupational First Aid Course

Level 1 And CPR-A Certification For UBC Staff, Faculty And Students. Firehall #10, 2992 Westbrook Mall from 8:30am-4:30pm. \$90. Call Pamela 822-2029.

Interdisciplinary Studies Symposium

A Hypermediated Ethnography Of Organizational Change: Reminiscences Of Interdisciplinarity At Work. Kersti Krug, MOA; Fiction And Science, Jorge Luis Borges And Paradox. Floyd Merrell, Spanish, Purdue U. Green College from 8:30am-5:30pm. Continues to Feb. 26. \$10. Call 822-0954.

G. Peter Kaye Continuing Education Seminar

An In-Depth Study And Discussion Of The Pelikan Lectures. Vari-

ous speakers. VST from 9am-9pm. Continues to Feb. 26. \$110; \$55 seniors; \$100 group. To register, e-mail ci@interchange.ubc.ca or call 822-9815.

UBC Teaching Community TAG Seminar

Preparing For Your Job Day Interview. David Lam basement seminar room from 9:30am-12:30pm. To register call 822-9149.

City Gardening Lecture

Summer Bulbs For Gardens. Vancouver Public Library (downtown) from 12noon-1pm. \$5 at the door. To register call 822-3928.

G. Peter Kaye Public Lecture

The Genesis Of Creeds And Confessions: Scripture, Tradition And Creed. VST Epiphany Chapel at 12:30pm. Call 822-9815.

Transformation Of Europe Lecture Series

Europe And The Atlantic Relationship At 50. Karsten Voigt, coordinator, German-North American Co-operation. CK Choi 120 at 12:30pm. Refreshments from 12noon-12:30pm. Call 822-9700; 822-8723.

Asian Studies Speaker Series

China And The East Asian Financial Crisis. Prof. Pitman B. Potter, Law. Asian Centre 604 from 12:30-1:20pm. Web site: www.assa.ca or call 822-3881.

School Of Music Concert

UBC Guitar Ensembles. Michael Strutt, director; Allan Rinehart, director. Music Recital Hall at 12:30pm. Call 822-5574.

Earth And Ocean Sciences Colloquium

Is There A Connection Between Dust And Fish? How Does Iron Control Primary Productivity In The North Pacific Ocean? Paul Harrison. GeoSciences 330-A at 12:30pm. Call 822-3278.

UBC Teaching Community TAG Seminar

Developing A Teaching Dossier For Tenure, Promotion And Reflection. David Lam basement seminar room from 3-5pm. To register call 822-9149.

Genetics Graduate Program Seminar

Inhibiting Caspase Cleavage Of Huntington Reduces Its Toxicity In An In Vitro Model Of Huntington Disease. Westbrook 201 at 3:30pm. Refreshments at 3:15pm. Call 822-8764.

Physics And Astronomy Colloquium

Relieving The Frustration: High Tc Superconductivity In Doped Antiferromagnets. Steven Kivelson, U of California. Hennings 201 at 4pm. Refreshments

Hennings 325 at 3:45pm. Call 822-2137; 822-3631.

19th Century Studies Colloquium

The Past As Phantasm: Carlyle, Michelet And Postmodernism. Hayden White, U of California. Cecil Green Park House Yorke Room at 4:30pm. Call 822-4225.

G. Peter Kaye Public Lecture

The Genesis Of Creeds And Confessions: The Rule Of Prayer And The Rule Of Faith. VST Epiphany Chapel at 7:30pm. Call 822-9815.

Chan Centre Concert

The Marriage Of Figaro By Mozart. UBC Opera Ensemble. Chan Centre Chan Shun Concert Hall at 8pm. Continues to Feb. 28. \$15; \$10 students/seniors. Call Ticketmaster 280-3311 or for more information 822-2697.

Science And Society

The Importance Of Understanding Science. Sid Katz, Pharmaceutical Sciences. Green College at 8pm. Call 822-1878.

Friday, Feb. 26

Health Care And Epidemiology Rounds

The Effect Of Latency On The Size Of An Epidemic. Steve Marion, assoc. prof. Mather 253 from 9-10am. Paid parking available in Lot B. Call 822-2772.

Pediatric Grand Rounds

The Evolution Of Exercise Rehabilitation Program For Children With Congenital Heart Disease - Site Wide Rounds. Dr. Jacques LeBlanc, Cardiac Surgery, B.C.'s Children's Hosp. GF Strong Aud. from 9-10am. Refreshments GF Strong lounge at 8:30am. Call Ruth Giesbrecht 875-2307.

Fish 500 Seminar

Pacific Fisheries Research Conservation Council. Terry Glavin, Transmontanus. Hut B-8 Ralf Yorke Room at 11:30am. Refreshments at 11am. Call 822-4329.

Sing Tao School Of Journalism Seminar

Trivia Pursuit: How Showbiz Values Are Corrupting The News. Knowlton Nash. Sing Tao 104 from 12noon-1:30pm. Call 822-6688.

Electrical And Computer Engineering Seminar

Compact Modeling Of High-Speed, Small-Dimension Transistors. Dave Pullfrey, MacLeod 214 at 12:30pm. Call 822-2405.

Occupational Hygiene Program Seminar

Labours Proposal For Occupational Health Clinics In British

UBC REPORTS

CALENDAR POLICY AND DEADLINES

The UBC Reports Calendar lists university-related or university-sponsored events on campus and off campus within the Lower Mainland.

Calendar items must be submitted on forms available from the UBC Public Affairs Office, 310-6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1. Phone: UBC-INFO (822-4636). Fax: 822-2684. An electronic form is available at <http://www.publicaffairs.ubc.ca>. Please limit to 35 words. Submissions for the Calendar's Notices section may be limited due to space.

Deadline for the March 4 issue of UBC Reports — which covers the period March 7 to March 20 — is noon, Feb. 23.

Calendar

February 21 through March 6

Columbia. Lynn Bicker, director, Health and Safety B.C. Federation of Labour. UBC Hosp., Koerner Pavilion G-279 from 12:30-1:30pm. Call 822-9302.

Pharmaceutical Sciences Seminar

How Does Insulin Work? Roger Brownsey, assoc. prof. Biochemistry and Molecular Biology. Cunningham 160 from 12:30-1:30pm. Call 822-7795.

19th Century Studies/English Lecture

History As Fulfillment. Hayden White. U of California. Angus 110 at 12:30pm. Call 822-4225.

Law And Society

Alternative Globalizations: Islamic Banking, Local Currencies And Meanings Of Money In New Cultures Of Finance. Bill Maurer. Anthropology, U of California. Curtis 169 at 12:30pm. Call 822-1878.

Chemical Engineering Weekly Seminar

Biological Treatment Of Combined Condensates In A Self-Cycling Reactor. Marguerite Decarie. ChemEng 206 at 3:30pm. Call 822-3238.

Physical Chemistry Seminar

Surface Analysis On Atomic Level. Tien Tsong. Institute of Physics. Academia Sinica. Chemistry D-225 (centre block) at 4pm. Call 822-3266.

Saturday, Feb. 27

UBC Botanical Garden Lecture Series

Winter Pruning. David Tarrant. Botanical Garden from 9am-12noon. \$25; \$22 members. To register call 822-3928.

Vancouver Institute Lecture

Trivia Pursuit. Knowlton Nash, journalist, broadcaster, author. IRC #2 at 8:15pm. Call 822-3131.

Monday, Mar. 1

English Lecture

The Jade Peony: Reading And Discussion. Wayson Choy. Buchanan A-203 at 12:30pm. Call 822-4225.

UBC Teaching Community TAG Seminar

Scholarly Information On The World Wide Web (introductory). Koerner Library Sedgewick Teaching Lab 217 from 1:30-4:30pm. To register call 822-9149.

Mechanical Engineering Seminar

Crisis And Opportunity In The Wood Industry In B.C. Jim Dangerfield, vice-president, Western Division, Forintek. CEME 1204 from 3:30-4:30pm. Refreshments. Call 822-3770.

International Week

Various International Theme Seminars. Continues to Mar. 4. \$30 non-UBC participants. International House at 3:30pm. To register call 822-4945.

Astronomy Seminar

Massive Nuclear Black Holes and Their Host Galaxies. Laura Ferrarese. CalTech. Hennings 318 at 4pm. Refreshments at 3:30pm. Call 822-2267.

Member Speaker Series

I Should Never Have Been Born! Wrongful Life Litigation In Canada. Kylie Diwell, Law. Green College at 5:30pm. Call 822-1878.

Thematic Lecture Series

What Is Tradition When It Is Not Invented?: Law And Tradition - Perspectives From Common Law. David Lieberman, Law, U of California. Green College at 7:30pm. Call 822-1878.

Chan Centre Concert

Academy Of St. Martin In The Fields. Chan Centre Chan Shun Concert Hall at 8pm. Call Ticketmaster 280-3311 or for more information 822-2697.

St. John's College Speaker Series

Stochastic Resonance. Cari Wells. Kinesiology. St. John's College Fairmont Lounge at 8pm. Call 822-8788.

Tuesday, Mar. 2

UBC Teaching Community TAG Seminar

Incorporate Research Into Your Teaching Using Excel Pivot Tables 97 (advanced). David Lam basement Windows Lab B from 9am-12noon. To register call 822-9149.

UBC Botanical Garden Lecture Series

Propagation From Seeds And Cuttings. David Tarrant. Botanical Garden reception centre from 12noon-1pm. \$5 at the door. To register call 822-3928.

Microbiology And Immunology Seminar

Characterization Of HSV Glycoprotein - Glycosaminoglycan Interactions. Angela Dyer. Wesbrook 100 from 12:30-1:30pm. Call 822-3308.

Botany Seminar

Why Aren't High Water-Use Efficiency And Low Nitrogen-Use Efficiency Correlated With Reduced Growth Potential In Gymnosperms? Robert Guy, Forest Sciences. BioSciences 2000 from 12:30-1:30pm. Call 822-2133.

Animal Science Seminar Series

The Role Of Progesterone And Cholesterol In Sperm Acrosome Reaction And In Vitro Fertilization In Cattle. Afsaneh Motamed Khorasani. MacMillan 256 at 12:30pm. Refreshments. Call 822-4593.

Lectures In Modern Chemistry

Mechanism And Exploitation Of Acyl And Acetal Transfer Reactions. Prof. Andrew Bennet, SFU. Chemistry B-250 (south wing) at 1pm. Refreshments at 12:40pm. Call 822-3266.

Continuing Studies Public Lecture

The Spanish Inquisition. Derek Carr. Hispanic and Italian Studies. Vancouver Public Library (downtown) Peter Kaye Room from 2-3:30pm. Continues to Mar. 9. \$25; \$20 seniors. To register call 822-1420.

President's Advisory Committee Music Seminar

Schubert's Moment Musical No. 6 In A Flat And The Song, "Am Meer" From Schwanengesang. Prof. Lawrence Kramer, Fordham U. Music Library seminar room from 3:30-5:30pm. Call 822-3113.

Statistics Seminar

Speed Of Convergence Of The Hit-And-Run Sampler. Claude Belisle. Laval U. CSCI 301 from 4-5:30pm. Refreshments, please bring your mug. Call 822-0570.

Promotion And Tenure Issues Seminar

Faculty Association And Faculty Mentoring Program's Joint Seminar. Various speakers. First Nations Great Hall from 4-6pm. Refreshments at 3:30pm. Call Estelle Paget 822-0831.

Health And Medicine Lecture Series

Canada's Blood System - A Fresh Start. Mary Collins, PC; president. Amorok Holdings. Green College at 8pm. Call 822-1878.

Wednesday, Mar. 3

Orthopedics Grand Rounds

Problem Disc Herniations. Dr. J.F. Schweigel. VGH. Eye Care Centre Aud. at 7am. Call 875-4192.

Asian Studies Speaker Series

Japanese Electronic Firms In Asia. Prof. David Edgington. Geography. Asian Centre 604 from 12:30-1:20pm. Call 822-3881.

School Of Music Concert

Wednesday Noon Hours. Andrew Dawes, violin; Jane Coop, piano. Music Recital Hall at 12:30pm. \$3 at the door. Call 822-5574.

Faculty Financial Planning Lecture Series

Estate Planning And Wills. Margaret Mason, Bull, Housser and Tupper. Angus 110 from 12:30-1:20pm. Call 822-1433.

President's Advisory

Committee Music Seminar Modernist Alienation And Modern Music. Prof. Lawrence Kramer, Fordham U. Buchanan B-218 at 12:30pm. Call 822-3113.

Centre For Research In Women's Studies And Gender Relations

Good Sex And Dirty Dishes - Thoughts On Heterosexuality, Feminism And The Family. Jo Van Every, U of Birmingham. Women's Studies Centre lounge from 12:30-1:30pm. Call 822-9171.

Centre For Southeast Asia Research

Ringgit, Sex And The Internet: Economics, Politics And Culture In Contemporary Malaysia. Shamsul Amril Baharudin, dean. Social Sciences and Humanities, National U of Malaysia. CK Choi #120 from 12:30-2pm. Call 822-2629.

Canadian Bureau For International Education

Conference. Various Speakers. International House at 2pm. Continues to Mar. 4. To register call 822-4945.

Obstetrics And Gynecology Research Seminar

Use Of Ultrasound In Prediction Of Ovarian Reserve. Dr. Tim Chiang, B.C.'s Women's Hosp. 2N35 at 2pm. Call 875-3108.

Geography Colloquium

Simmel's Sense Of Space And The Civic Unconscious. Tom Kemple. Geography 201 at 3:30pm. Call Trevor Barnes 822-5804.

English Lecture

Building Yeat's Tower/Building Modernism. George Bornstein, U of Michigan. Buchanan lounge 597 at 3:30pm. Call 822-4225.

President's Advisory

Committee Music Seminar Hands On, Lights Off: The Moonlight Sonata And The Birth Of Sex At The Piano. Prof. Lawrence Kramer, Fordham U. CK Choi 129 at 4:30pm. Call 822-3113.

Respiratory Research Seminar Series

Postural Changes In Respiratory Mechanics In Left Ventricular Fail-

ure. Dr. Neil Pride, prof. Thoracic Medicine, National Heart and Lung Institute. VGH, doctors' residence conference room from 5-6pm. Call 875-5653.

Individual Interdisciplinary Studies Graduate Program

Crossing Boundaries In Medical Sciences And Health. Clyde Hertzman, Health Care And Epidemiology. Green College at 5pm. Call 822-1878.

St. John's College Speaker Series

Breast Cancer For Scientists, Breast Cancer For Students - The Millennium Update. Dr. Joseph Ragaz, Oncology. St. John's College 1080 at 5:15pm. Call 822-8788.

Thursday, Mar. 4

Occupational First Aid Course

Level 1 And CPR-A Certification For UBC Staff, Faculty And Students. Firehall #10, 2992 Wesbrook Mall from 8:30am-4:30pm. \$90. Call Pamela 822-2029.

UBC Teaching Community TAG Seminar

PowerPoint 95 For Teaching And Presentations (introductory). David Lam basement Windows Lab A from 9am-4:30pm. To register call 822-9149.

City Gardening Lecture Series

Propagation From Seeds And Cuttings. Vancouver Public Library (downtown) from 12noon-1pm. \$5 at the door. To register call 822-3928.

Cultural And Media Studies Colloquium

The Politics Of Drugs And Drug Use In New York City. Anthony Marcus, Hofstra U. Green College from 12:30-2pm. Call 822-1878.

Earth And Ocean Sciences Colloquium

Geochemical And Isotopic Systematics Of Paleozoic Rocks From Inboard Cordilleran Terranes - Clues To Their Origin And Evolution. Robert Creaser, U of Alberta. GeoSciences 330-A at 12:30pm. Call 822-3278.

Centre For Chinese Research/Music Lecture

Chinese Language And Its Impact Upon Music. Prof. Du Yaxiong, Beijing Chinese Conservatory of Music. Asian Centre 604 at 12:30pm. Call 822-2331; 822-2629.

Genetics Graduate Program Seminar

The Characterization And Developmental Expression Patterns Of The Ubiquitin Conjugating Enzyme UBC-2 In The Nematode, Caenorhabditis Elegans. Tracy Stevens. Wesbrook 201 at 3:30pm. Refreshments. Call 822-8764.

Physics And Astronomy Colloquium

Superfluidity In Helium Three: The Discovery Through The Eyes Of A Graduate Student. Doug Osheroff, Stanford U. Hennings 201 at 4pm. Refreshments Hennings 325 at 3:45pm. Call 822-2137; 822-3631.

Computer Science Invited Speaker Seminar

Non-Linear PDE Methods In Image Processing. Tony Chan, UCLA. CICS/CS 208 from 4-5:30pm. Refreshments. Call 822-0557.

Policy Issues In Post-Secondary Education

The Role Of Continuing Education In The Knowledge Society. Lynn Burton, dean, Continuing Studies, SFU; Walter Uegama, assoc.

vice-president, Continuing Studies. Green College at 4:30pm. Call 822-1878.

Fine Arts Lecture

Thliitsapilthim (Ceremonial Screens). Ki-Ke-In (Ron Hamilton). Lasserre 102 at 7:30pm. Call 822-2757.

Continuing Studies Lecture

Pelop's Island: The Archeology Of The Peloponnese. Hector Williams, Classical, Near Eastern and Religious Studies. Lasserre 102 from 7:30-9m. Continues to Mar. 18. \$35; \$30 seniors. To register call 822-1420.

Friday, Mar. 5

Pediatric Grand Rounds

Langerhans Cell Histiocytosis Into The 21st Century; Where Do We Stand And What Can Be Expected? Dr. Maarten Egeler, assoc. prof., Oncology and Pediatrics, U of Calgary. GF Strong Aud. from 8:30-9:30am. Call Ruth Giesbrecht 875-2307.

Health Care And Epidemiology Rounds

Qualitatively Defining Expectations And Treatment Effects Of Anti-Dementia Medications: Exploring And Explaining Clinimetrics. Janice Graham, medical anthropologist. Mather 253 from 9-10am. Paid parking available in Lot B. Call 822-2772.

Fish 500 Seminar

Visit And Discussion. Kevren Cochrane. Hut B-8 Ralf Yorke Room at 11:30am. Refreshments at 11am. Call 822-4329.

Occupational Hygiene Program Seminar

A Retrospective Cohort Study Of B.C. Aluminum Workers. John Spinelli, asst. prof. UBC Hosp., Koerner Pavilion G-279 from 12:30-1:30pm. Call 822-9302.

Pharmaceutical Sciences Seminar

Dietary Obesity And Peptides In Rat Brain. Jian Wang. Cunningham 160 from 12:30-1:30pm. Call 822-7795.

Oceanography Seminar

Mechanisms Controlling Bacterial Production, Populations And Community Structure. Markus G. Weinbauer, National Research Centre for Biotechnology. BioSciences 1465 at 12:30pm. Call 822-3278.

Centre For Southeast Asia Research

Indonesia: Walking The Tightrope To The Rule Of Law. Prof. Tim Lindsey, Law, U of Melbourne. CK Choi boardroom 231 from 12:30-2pm. Call 822-2629.

Graduate Students/Institute Of Asian Research

Re-Evaluating Asia: New Research Directions. Shamsul Amril Baharudin, dean, Social Sciences and Humanities, National U of Malaysia; Leonora Angelas, assoc. prof. Community and Regional Planning. CK Choi conference/seminar room from 1-9pm. Continues to Mar. 6 from 9am-6pm. \$15 Mar. 5; \$10 Mar. 6. Call 822-8574.

Chemical Engineering Weekly Seminar

Greenhouse Solid Waste Treatment And Utilization. William Cheuk. ChemEng 206 at 3:30pm. Call 822-3238.

News Digest

The Centre for Policy Studies in Higher Education and Training (CHET) is the new name for the former Centre for Policy Studies in Education, a research arm of the Faculty of Education.

The name change reflects the centre's recent focus on policy-oriented research in higher education and training, says co-director and Educational Studies Prof. Kjell Rubenson.

A seminar series featuring international speakers co-sponsored with Green College focuses on higher education policy issues across Canada and internationally.

The centre, established in 1984, addresses questions of educational policy, practice and outcomes.

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The Leon and Thea Koerner University Centre is the new name of the former Faculty Club building, currently undergoing renovations.

The Koerners funded the capital construction of the building in the late 1950s and the building has been named in honour of their contribution to the intellectual, cultural and social life of UBC.

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Calendar

February 21 through March 6

Continued from Page 7

Bio-Resource Engineering Weekly Seminar

Development Of Sustainable Aquaculture Systems. Ted White, Future SEA Farms Inc. ChemEng 224 at 3:30pm. Refreshments at 3:15pm. Call 822-3475.

School Of Music Lecture/Demo

The Relationship Between Folk Songs Of Hungary And North-western China. Du Yaxiong, Beijing Chinese Conservatory of Music. Music Library seminar room at 3:30pm. Call 822-2331; 822-3113.

Physical Chemistry Seminar

The Electronic Spectrum Of YOH and YOD In The Visible Region. Scott Rixon; Chris Kingston. Chemistry D-225 (centre block) at 4pm. Call 822-3266.

Chalmers Institute Workshops

Women And Spirituality Dialogue '99. Various speakers. VST at 5pm. Continues to Mar. 6 from 8am-4pm. \$70; \$35 seniors. To register call 822-9815.

Chan Centre Concert

Ensemble Showcase. UBC Chamber Strings; UBC Contemporary Players. Chan Centre at 8pm. Call 822-2697.

Festiva '99

Displays, Performances And Food From Around The World. Inter-

national House from 5-9pm. \$5 in advance; \$7 at the door; \$3 children 3-14. Call 822-4945.

Saturday, Mar. 6

Student Careers Conference

International Relations. Various speakers. International House at 9am. Call Vasilis Pappas, president, International Relations Student Association 822-1604; 421-0220.

Art History Graduate Symposium

There's Nothing Funny About Art History: Addressing The Critical Possibilities Of Humor. Cuauhtemoc Medina, Mexican art historian, curator, critic. Lasserre 104 from 11am-5pm. Refreshments. Call 822-2757.

Chan Centre Concert

Double Your Pleasure. Vancouver Men's Chorus; Gay Men's Chorus of San Diego. Chan Centre at 8pm. Call Ticketmaster 280-3311 or for more information 822-2697.

Vancouver Institute Lecture

Why Are Some Societies Healthier Than Others? Clyde Hertzman, Health Care and Epidemiology. IRC #2 at 8:15pm. Call 822-3131.

Classified

The classified advertising rate is \$16.50 for 35 words or less. Each additional word is 50 cents. Rate includes GST. Ads must be submitted in writing 10 days before publication date to the UBC Public Affairs Office, 310 - 6251 Cecil Green Park Road, Vancouver B.C., V6T 1Z1, accompanied by payment in cash, cheque (made out to UBC Reports) or journal voucher. Advertising enquiries: UBC-INFO (822-4636).

The deadline for the March 4 issue of UBC Reports is noon, Feb. 23.

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Next deadline:
noon, Feb. 23



MARCH FORTH ON MARCH 4TH!

Sign-up for UBC TREK Centre's Commuter Challenge! Get your department/team to prove you're the "greenest" when it comes to commuting on March 4th. Call 827-TREK for your registration package.

7:30-9:30 UBC Cinnamon Bun Coupon Handout. Volunteers will be looking for persons who carpooled, van pooled, hiked, biked, or walked to UBC.

9:00-2:30 Displays and Bike Clinic near the UBC Bus Loop. Be sure to stop by our tents to check out the information, pick up your cinnamon bun coupons, register for the prize draw, and get some giveaways!

12:15 Stop by our tents to listen to Councillor Gordon Price and other Regional Transportation Experts and join in the TREK Parade.

1:15 Prize draws, wrap-up events

Event Schedule updates are available @ www.trek.ubc.ca

GIVE SOMEONE A SECOND CHANCE.

March is Kidney Month. Please give generously.
THE KIDNEY FOUNDATION OF CANADA



Daniel Sieberg photo

Webbed Thunderbird

Editor Hugh Dawson (left) and Sing Tao School of Journalism Prof. Stephen Ward review the final draft of the school's new magazine, *The Thunderbird*, before it goes on-line. The *Thunderbird* is a monthly publication examining various media issues in Canada and can be found at www.journalism.ubc.ca/thunderbird.html.

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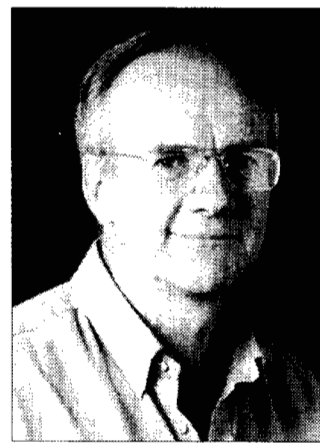
The ASI Exchange is an advanced technology swap meet and a showcase of new technologies and research. This one day event brings together all of the 'players' in BC's high technology community.

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Presented by the BC Advanced Systems Institute (ASI)

People

by staff writers



Frost

Commerce and Business Administration Prof. **Peter Frost** has won the 1998 Distinguished Educator Award from the Academy of Management at Pace University in Pleasantville, N.Y.

Frost, the first foreigner to receive the award, was recognized for his pioneering contributions to advance teaching in the academy.

The Academy of Management is a non-profit organization that fosters the advancement of research, learning, teaching and

practice in the management field and encourages the extension and unification of management knowledge.

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Prof. **Judith Johnston**, director of the School of Audiology and Speech Sciences, was recently given the highest award offered by the British Columbia Association of Speech Language Pathologists and Audiologists.

Johnston was recognized with the honours of the association for her professional advocacy and her international advancement of both science and clinical service.

Particularly noted was her success in involving 150 clinical faculty in decision- and policy-making at the university. Practitioners around B.C. assisted with a major revision to the school's curriculum and are regularly consulted on a variety of administrative issues.

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Music Assoc. Prof. **Michael Tenzer** is the recipient of an award from the American Society of Composers, Authors and Publishers (ASCAP), a major performing rights organization based in New York. Tenzer was recognized for his ongoing work as a composer.

One of his latest works, *Sources of Current*, commissioned by the U.S. Library of Congress, was recently premiered by the chamber players of the Chicago Symphony Orchestra.



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Office scrutinizes health research

Challenging opinions day's work for doctor



Hilary Thomson photo

Librarians Diane Helmer (left) and Mary Doug Wright track down research in not only the usual English-language medical journals and directories, but also through organizations, Web sites and newsletters worldwide.

Librarians scout out the facts for office

Hunting down fugitives is all in a day's work for Mary Doug Wright.

Fugitive literature, that is.

As senior librarian at the B.C. Office of Health Technology Assessment, (BCOHTA) Wright and her colleagues are responsible for searching, scanning and checking voluminous amounts of data relevant to BCOHTA assessment requests.

This includes fugitive literature or information that may be unpublished and is not indexed in electronic databases.

"It's really a challenge to ferret out new literature," says Wright. "Keeping current and organizing all the material is a huge task."

Tracking down research studies means scouring international electronic databases of medical indices and abstracts as well as print directories, journals, newsletters and bibliographies.

The detective work begins once the primary BCOHTA researcher has completely defined the assessment request.

That's when Wright starts working on the search strategies. She looks for technology assessment information in areas as diverse as biostatistics, law, anthropology and finance.

"We use local and international electronic medical, technical, scientific and business databases," says Wright. "We're also connected to an international network of health sciences libraries."

BCOHTA's library collection has almost 8,000 items including newsletters, journals, industry reports, policy statements and conference proceedings.

Wright and librarian Diane Helmer also look for results of randomized controlled therapeutic trials on the relevant technology or drug and for

any pertinent clinical practice guidelines.

They retrieved more than 1,700 items last year, including the fugitive literature that is a special challenge to collect, says Wright.

To find the information, Helmer manually searches through directories of investigators looking for a connection to the subject being evaluated, calls health technology organizations for information, scans hundreds of newsletters and checks health and technical organizations' Web sites. She also phones, e-mails or writes directly to organizations and individuals to find pertinent research material.

This job of monitoring information continues throughout the BCOHTA assessment, some of which take two or more years to complete.

Five or six projects are usually researched simultaneously.

Once the researchers have reviewed the information, library assistant Catherine Howett gets the requested reprints of articles from the Web or through inter-library loans.

Searches are not limited to the English language because that would bias the results, says Wright. Key articles in other languages are translated.

BCOHTA library staff collaborate with library groups and work directly with researchers through one-on-one tutorials to share search strategies.

Wright, who holds an honours undergraduate degree in Genetics from the University of Alberta and a master's degree in Library Science from UBC, says the medical librarian field has grown beyond hospitals and medical schools. Medical librarians are now employed by pharmaceutical companies, research organizations and non-profit health organizations.

Controversy has become commonplace for Dr. Isabelle Savoie.

As a medical consultant for the B.C. Office of Health Technology Assessment (BCOHTA) based at UBC, Savoie is responsible for evaluating research methods on topics ranging from cholesterol testing to hearing screening in newborns.

"Our work often challenges people's opinions about whether a technology works or not," says Savoie. "That can be threatening."

BCOHTA assesses a variety of health technologies upon request from hospitals, physicians, government agencies, manufacturers and the public. Technologies include everything from information systems to drugs to diagnostic equipment.

"We try to help decision-makers identify the best use of limited resources," she says. "They need to know if a technology has been shown to produce more benefits than harm."

Assessments also review how the technology compares to a placebo or to a competing alternative.

"Because we're requested to do reviews before money is spent, some people think we have a bias against buying technology. But our job is really pro-research evidence, not anti-technology."

The office receives requests for assessments almost every other week. Faculty and staff, all UBC employees, use various criteria to determine the priority and level of analysis.

Issues such as the number of users of the technology, its potential to change the quality of patients' lives, the cost of implementation and the influence of the review on the spread of the technology are all considered in determining which requests get priority attention.

Savoie, one of two medical consultants at BCOHTA, reviews literature gathered by the office's librarian and information specialist. She also speaks directly with

physicians and other health-care providers to learn from them how a particular technology is working.

It takes an average of 18 months to complete an in-depth assessment.

"What we're evaluating is the quality of the research — is it logical and thorough and are the conclusions defensible and reproducible," says Savoie.

She and BCOHTA colleagues have presented their systematic review methodology to practitioners and decision-makers at conferences worldwide. Teaching others how to critically appraise research provides much of her job satisfaction, Savoie says.

"This is not about telling doctors they're bad for using technology that is not supported by research evidence," she says. "It's about making sure health-care dollars are spent in a way that gives the greatest good to most people."

After obtaining a medical degree from the University of Montreal and a master's degree in Health Administration from UBC, Savoie wanted to contribute to making the health-care system work better. She also sought an opportunity to combine research with personal interaction.

One of her current research assessments looks at how information on heart disease is presented to women.

Social literature such as articles in women's magazines and advertising and an examination of the values women hold concerning health and disability all come under critical review.

"Women are now getting a great deal of information about heart disease," says Savoie. "Some of it is based on sound research and some is not. Our review looks at how that information affects treatment decisions for women and their doctors."

Savoie has some advice to anyone seeking a job in research evaluation. "Don't take anything for granted and don't be afraid to challenge the status quo."



Hilary Thomson photo

Dr. Isabelle Savoie is one of two medical consultants who evaluate research methods used by health technology researchers.

Decision-makers seek assessment assistance



Hilary Thomson photo

Based at UBC, the British Columbia Office of Health Technology Assessment provides research on the effectiveness of health findings for clients ranging from clinicians and administrators of small hospitals to government decision-makers says Health Care and Epidemiology Assoc. Prof. Arminée Kazanjian, the office's founding chair.

by Hilary Thomson

Staff writer

Office clears confusion of conflicting studies

A scientific study published one day states carrots should be eaten in great quantities. The next day, a different study states carrots should be avoided at all costs.

Conflicting research findings affect not only carrot consumption but also health-care spending, policy decisions and clinical practice.

That's where the British Columbia Office of Health Technology Assessment (BCOHTA) comes in.

Established in 1990, this UBC-based organization provides detailed assessments on a wide range of research studies.

Evaluating other people's research takes a lot of commitment, the ability to ask the right questions and no fear of confrontation, says Arminée Kazanjian, founding chair of BCOHTA.

"We work with clinicians, academics and researchers and bringing those camps together can be a challenge," says Kazanjian, an associate professor of Health Care and Epidemiology at UBC and associate director of the Centre for Health Services and Policy Research.

"We are asked to probe, challenge and critique research to find that can make some individuals uncomfortable," she says.

Administrators without access to a lot of scientific resources, such as vice-presidents of smaller hospitals, are grateful to have the research information synthesized and at their fingertips, she says. Reports from BCOHTA help them to allocate scarce funds, she adds.

Health technology assessment is part of the move to evidence-based medicine and is a relatively new field according to Kazanjian.

Evidence-based medicine uses a synthesis of rigorously appraised research as a basis for health decisions that range from policy changes to clinical practice.

The field got its start in the United Kingdom and is gaining momentum internationally as countries try to manage escalating health-care costs.

BCOHTA has received requests from Pacific Rim countries and Latin America on how to set up similar technology assessment offices.

"We're unique in that we are university-based and work at arm's length from government," says Kazanjian, who is also the UBC representative to the Canadian Cochrane Network/Centre which is part of an international body that promotes evidence-based medicine. UBC's international consultation is conducted as part of this international academic collaboration.

"BCOHTA is the only centre in Canada where technology assessment work is conducted using the original methodology developed in the United Kingdom," says Kazanjian.

She points to a recent assessment of the impact on bone mineral density screening as one of BCOHTA's greatest challenges and accomplishments.

A number of hospitals and the B.C. College of Physicians and Surgeons Clinical Practice Guidelines Committee requested the assessment. Many different sectors and constituents were involved with the study including the Medical Service Plan, clinicians, and Children's and Women's Health Centre of British Columbia.

The review took two and a half years to complete. After it was published, the provincial Ministry of Health set up a committee with representatives from various sectors to offer advice on bone health and fracture prevention strategies.

Kazanjian and colleagues promote the systematic review methodology used at BCOHTA.

One of the office's aims is to build into organizations the capacity to ask the right questions and to encourage structures that are able to include research in their decision-making.

Carolyn Green, research associate at BCOHTA, has been working with the technological assessment committee at the Workers' Compensation Board to review evidence on the clinical effectiveness of craniosacral therapy.

The therapy involves manual manipulation of areas of the skull to stimulate healing via the cerebral spinal fluid.

"We needed BCOHTA's help in assessing this unconventional form of therapy," says Dr. Craig Martin of the WCB. "They led us through a systematic review of research which helped us refine our policy and practice related to this technique."

The review showed that the therapy couldn't be considered of proven benefit on the basis of scientific research.

"Our mandate is to promote the use of research," says Kazanjian. "We have in-

creased our efforts to collaborate with the requestor, to disseminate research and to educate practitioners, policy makers and the public."

BCOHTA sends its reports and newsletters to more than 8,000 B.C. physicians and decision-makers.

Staff members also serve on regional health

board committees and make presentations at national and international conferences.

Kazanjian emphasizes that the office has no agenda except to provide research on effectiveness. She says practitioners and the public need to know as much as they can about health-care policies and technology to understand what their taxes are buying and to make better-informed health-care decisions.

Kazanjian, who holds a doctorate in sociology, originally researched the equality of opportunity in education and labour markets. She then examined health human resources, which led to her current interest in health systems and health policy research.

BCOHTA, with nine employees and an annual budget of \$500,000 is a program within UBC's Centre for Health Services and Policy Research.

Reviews cover babies' hearing to acupuncture

The B.C. Office of Health Technology Assessment is collaborating with evidence-based medicine programs in B.C. to produce systematic reviews of technology that have significant impact on patient health and health-care costs.

Some joint projects currently underway are:

Acupuncture in the treatment of drug and alcohol dependency

Acupuncture is often used in the treatment of alcohol and drug dependence, and is believed to reduce withdrawal and other symptoms associated with abstinence.

The review's aim is to evaluate the effectiveness of acupuncture in addiction treatment as a supplemental therapy, an alternative therapy, or as part of a comprehensive management program.

Assessment requested by Provincial Medical Adviser, Adult Addictions Services Branch, Ministry for Children and Families.

Hearing Screening for Newborns

New hearing screening technologies targeting newborn infants have been developed and are being strongly marketed in the U.S. and Canada.

There is growing pressure to implement universal hearing screening guidelines in B.C.

The project seeks to determine if two new auditory technologies, auditory brainstem response and oto-acoustic emission, are helpful in preventing developmental delays and disabilities which may be associated with hearing loss.

Assessment requested by a group of B.C. physicians, audiologists and speech pathologists from the B.C. Research Institute for Child and Family Health, British Columbia Children's Hospital; St. Paul's Hospital; and the Hearing Services Branch of the B.C. Ministry of Health.

Review of triple marker screening in British Columbia

The aim of this project is to provide data from British Columbia to provincial policy makers regarding maternal serum triple-marker screening (TMS).

The screening is used for the detection of Down's syndrome, other rarer chromosome abnormalities and conditions such as spina bifida, a congenital defect in the walls of the spinal canal.

BCOHTA will gather qualitative and quantitative data that will be used to make decisions on the funding of B.C. screening programs.

This request is being undertaken at the request of the B.C. Ministry of Health.

"We are asked to probe, challenge and critique research results and that can make some individuals uncomfortable."

— Assoc. Prof. Arminée Kazanjian

Forum

What's right about our health-care system

by Robert Evans and Noralou Roos

Economics Prof. Robert Evans is a director of population health with UBC's Canadian Institute for Advanced Research; Noralou Roos is co-director of the Manitoba Centre for Health Policy and Evaluation. The following appeared recently in The Toronto Star.

Canadians are remarkably masochistic. Year after year, the United Nations says Canada is the most liveable country in the world, yet we seem to discuss nothing but how to dismember it.

Canada has one of the world's most successful health-care systems, yet we cannot shake the belief that, despite all evidence, the grass is always greener south of the border.

While our fundamentally sound system has some problems, we dwell on them and insistently look for magical fixes from the Americans, whose health-care system is generally recognized to be among the least satisfactory in the developed world.

The truth is there is no shortage of good news about the Canadian health-care system; why we hear this so rarely is something that should concern us.

For example, Canadians are healthy. On average, we are among the healthiest peoples in the world, and are becoming healthier. Wide variations exist by region and social group, and we rightly hear much about these. But the overall health of Canadians is high and rising.

In particular, on the standard measures of life expectancy and infant mortality, we outperform the U.S. The U.S. has eight infant deaths per 1,000 live births — in the same leagues with the Czech Republic and Greece — while Canada has six per 1,000.

Canadians also live longer and our advantage is growing. From 1990 to 1995, the gap in life expectancy between Canadian and

American males grew from two to 2.8 years; for women, it went from 1.6 to 1.9 years.

Different health-care systems are not the whole, or even the principal, explanation for Canadians' better health. The whole American social environment is more brutal for the less successful. In simple economic terms, for example, everyone knows that Americans enjoy higher incomes, on average, than do Canadians.

So while the rich in America are much richer, the poor are much poorer than their Canadian counterparts. In 1995, while the top 20 per cent of U.S. families were substantially better off than their Canadian counterparts, most of the rest were absolutely worse off. The difference is largely attributable to Canada's tax-financed social programs.

There is strong evidence of a link between income distribution and overall health status — non-egalitarian societies, like the American, that concentrate wealth in the hands of a few, tend to be unhealthy.

But obviously health care also matters, and the Canadian health-care system is very good at getting care to the people who need it, whether or not they can pay.

Cross-border studies suggest that both Canadian and American systems serve people in middle- and upper-income groups well, but that there are marked differences in access for people with lower incomes.

It would be very surprising if this were not so. About 40 million Americans have no insurance at all, and those who do increasingly face larger user fees.

So Canada does a better job of looking after poor people, and getting what care there is to where it is needed most. But most of us are not poor. Aren't we being shortchanged by an underfunded system that is simply incapable of meeting all our needs? The U.S. may not distribute care equitably, but at least it delivers the goods, and ours does not. Or does it?

Americans certainly spend a lot more on health care than we do or than anyone else in the world. One-seventh of their national income, 14.2 per cent, goes to health care, compared with 9.2 per cent in Canada, and eight to 10 per cent in most developed countries. This works out to \$3,708 per capita yearly, compared with \$2,002 (US) spent in Canada.

It is not that Canada spends so little, it's that the U.S. spends so much. To match these levels, Canada would have to add \$45 billion a year to our health-care spending.

But do we really want to do that? The truth of the matter is that more money does not necessarily buy more health care, any more than it buys more health.

Americans do not receive more hospital care and they don't receive more physician services, though they pay a lot more for what they do get. (Yes, their rates of some types of surgical procedures are higher, but overall, Canadians get more surgery.)

Americans do not get higher quality care for their money; follow-up studies of patients on both sides of the border usually show similar outcomes. There is no clear advantage to either side.

The Canadian health-care system is also remarkably efficient.

A universal, comprehensive, tax-financed public insurance system with negotiated fee schedules is administratively lean. The American multi-payer system with diverse and complex coverage restrictions and elaborate forms of user payments is fat.

The American private insurance bureaucracy is huge; its excess administrative costs, compared with a Canadian approach, are estimated to be between 10 per cent and 15 per cent of total system costs — that is, well over \$100 billion (US) per year.

But what about the "Canadian problem" — waiting lists? In the U.S., people

without money or insurance do not even get on a waiting list. Access is rationed by ability to pay, not by waiting. (They may be able to get care at some public facilities, but then they wait.)

If the Canadian waiting lists indicate a problem, it is not one for which the Americans have an acceptable solution. Canada could do a better job of managing patients waiting for surgery. Most provinces don't have systems in place to prioritize patients.

However, reviews of waiting lists in Canada have found the system to provide immediate access for emergency cases, and rapid access for urgent care. Since there have been remarkable increases in the numbers of cataract, bypass, hip and knee procedures performed in Canada in recent years, rationing of care here is not a real issue.


Claims of excessive waiting lists are the political theatre of publicly funded health care everywhere in the world. In fact, when asked, most Canadians on waiting lists do not find their waits problematic.

Claims of underfunding play an obvious role in the bargaining process between providers and governments. The former cry "More money for health!" when they mean higher incomes for providers.

Why, then, do American notions keep pushing north? There is a great deal of money to be made by wrecking Medicare.

All the excess costs of an American-style payment system represent higher incomes for the insurance industry and for providers of care. The extra \$45 billion it would cost us to match American expenditure patterns is a big enough carrot to motivate those who promote the illusion of American superiority.

So what's really right about the Canadian health-care system? Well, compared to the American, just about everything. We do have problems but the Americans don't have the solutions.

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UBC RESEARCH

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The Inaugural D. Harold Copp Lecture

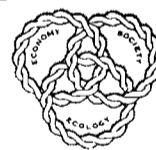
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The Wolfson Institute for Biomedical Research
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