

Board maintains program quality, provides for growth

UVic's board of governors has approved a budget framework for the 2004-05 fiscal year that provides for growth in student enrolment, maintains the quality of academic programs, and funds some modest improvements to programs and services.

The restoration of provincial government funding and trimming of anticipated expenditures are keeping proposed tuition increases less than originally forecast.

The board passed the budget with a vote of 11-3 after hearing submissions against the tuition hikes by students Joanna Groves and Nicole Lindsay. A motion was passed unanimously that the board write to the premier and minister of advanced education expressing concern about the cancellation of B.C.'s student grant program and encouraging the introduction of a replacement program.

The framework calls for a 16.6 per cent tuition increase for domestic undergraduate students and a seven per cent increase for graduate students. It also includes an additional \$2 million in student financial assistance. With this package, UVic will exceed its goal to be among the top 20 per cent of Canadian universities in terms of financial aid for students.

The tuition increases in the budget framework are required because of increased operating costs, the additional

costs associated with providing spaces for 372 more full-time students, and improvements in programs and student support services.

"The budget framework reflects a balance among program quality protection and improvements, tuition increases and student financial aid," says UVic President Dr. David Turpin. "Maintenance and enhancement of the quality of education at UVic is the key. We recognize tuition increases may create hardship for some students and have increased student financial assistance dramatically."

The budget framework provides for a provincial operating grant of \$123.8 million to UVic to fund the equivalent of spaces for 14,552 full-time undergraduate and graduate students. At the same time, the university's financial commitments have risen \$15.3 million over last year.

The university's operating budget for 2004-05 is \$224.7 million. Tuition accounts for 34 per cent of the university's operating revenue. B.C. universities are required by law to balance their budgets.

Tuition for domestic arts and science undergraduates will rise in 2004-05 to \$4,238 from \$3,635, while graduate tuition will increase to \$4,404 from \$4,116. Tuition for international undergraduate students will increase to

SEE BUDGET P.3

SIX SELECTED FOR SPRING HONORARY DEGREES

Stephen Lewis, United Nations special envoy for HIV/AIDS in Africa, is part of a distinguished group of six who will accept honorary degrees during the university's spring convocation ceremonies June 1-4.

Along with Lewis, honorary degrees will be presented to retired Supreme Court Justice Claire L'Heureux-Dubé, Kwa-guilth artist Richard Hunt, Victoria arts activist and fundraiser Jane Heffelfinger, American health information specialist Dr. Morris Collen, and Percy Wilkinson, a Victoria centenarian with a lifelong record of public service.

Passionately committed to fighting the scourge of HIV/AIDS, **Stephen Lewis** was appointed by UN Secretary-General Kofi Annan to work closely with African leaders, United Nations colleagues, and the Economic Commission of Africa to find ways to prevent the epidemic's spread, protect the vulnerable and promote scientific breakthroughs.

Lewis has served with the UN for the past 20 years, including as dep-

uty executive director of UNICEF and Canadian ambassador to the UN. Last year he was appointed Companion of the Order of Canada, the country's highest honour for lifetime achievement. He was also named *Maclean's* magazine's first "Canadian of the Year." (June 3, 2:30 p.m., LLD)

Retired Justice **Claire L'Heureux-Dubé** was nicknamed "The Great Dissenter" during her time on Canada's highest court. One hundred of her 254 written judgments were dissents, many of which became the basis of future majority judgments and legislative reforms, particularly in the areas of family law and human rights. She identified and helped the judiciary address gender and racial biases in decision-making and spoke out against discrimination and inequality. (June 3, 10 a.m., LLD)

Richard Hunt was born in Alert Bay but has spent most of his life in Victoria. He apprenticed with his late father, Henry Hunt, and was the chief

SEE HONORARY DEGREES P.5



Wright

CHRISTOPHER CAMPBELL

Canada's "jingle king" gives \$1 million to music education

by Chris Thackray

Music educator, composer and philanthropist Don Wright has donated \$1 million to support the music education program in UVic's faculty of education.

Wright, 95, who resides in Toronto, is well-known for his lifetime contributions to Canadian music, and for his generous philanthropy and passionate support of music education. The gift to UVic will help the teachers of tomorrow bring music to the lives of generations of schoolchildren.

"I love music so much, I want to give it to everyone" says Wright. "These future music teachers have a dream to spread the joy of music—and I want to help them pursue that dream."

The gift will finance undergraduate and graduate scholarships in music education, the growth of music education programs, and student-focused initiatives such as "Bandfest," a youth band festival hosted each year at UVic. The endowment will also enable student ensembles to participate in invitational international musical events

and provide for regular repair and replacement of musical instruments and other vital equipment.

Wright's generosity has touched the lives of many. His interest in young people and the teachers that work with them has generated 34 endowed, perpetual scholarships at 13 universities across Canada. Other beneficiaries include several hospitals, churches and choral ensembles.

"This gift is a truly extraordinary validation of the work so many people have done to build

SEE JINGLE KING P.2

UVic awarded two new Canada Research Chairs

by Maria Lironi

As you read this, 260 million cells in the retinas of your eyes are busily generating, processing and transmitting visual signals to your brain. But even a small glitch in this process can lead to a subtle vision disorder or complete blindness.

As UVic's new Canada Research Chair in Retinal and Early

Eye Development, Dr. Robert Chow is trying to eliminate these glitches by achieving a greater understanding of hereditary human vision disorders and the complex biology of the retina.

"More than 200 genetic lesions responsible for eye disease have been identified in humans," says Chow. "An important point to keep in mind, however, is that the individual genes mutated

in these diseases are actually team players that interact with a multitude of other genes in complex biological networks and pathways."

Chow is currently a post-doctoral fellow at the Hospital for Sick Children in Toronto. He'll join UVic's biology department in May.

Chow is one of two Canada
SEE RESEARCH CHAIRS P.2

UVic seeks new university secretary

UVic is looking for a new university secretary to replace Sheila Sheldon-Collyer, who is retiring. Applications and nominations are invited for the position, which is responsible for the direction, efficient operation and general oversight of the major governing bodies of the university. As a key member of the university's senior leadership team, the university secretary provides strategic input and advice to ensure the university's successful management and governance. The position reports to the president. The successful candidate will take office Jan. 1, 2005, will have a track record of accomplished leadership in senior-level administration within an organization of comparable complexity, and will possess strong expertise in policy development, consensus-building, planning and co-ordination. The committee begins reviewing applications by early May 2004. Send applications to Janet Wright & Associates Inc., 21 Bedford Road, suite 300, Toronto, Ontario M5R 2J9, tel: (416) 923-3008 or e-mail uvicsecretary@jwasearch.com.

Law students argue their way to the top

Last month in Toronto, four UVic law students won the Gale Cup Moot Competition, the country's pre-eminent event for law students to showcase their courtroom skills. Coached by law professor Don Galloway, the team of Gordon Buck, Aidan Cameron, Cameron Elder and Adam Perry beat out students from 15 other law schools for the title. This year's competition case revisited a Supreme Court decision on the right against self-incrimination. In the competition final, two UVic students were chosen at random to appeal the decision against a team from the University of Western Ontario. According to Galloway, the UVic law students "entered the realm of transcendancy" in their winning arguments. The team's written brief on their appeal was judged the best in the competition.

All-nighter puts student on the road to fame

Organizers of the Enbridge playRites Festival's 24-Hour Playwriting Competition locked Leah Bailly in a Calgary office tower for 24 hours and told her to produce a script. When the UVic writing student emerged, contest organizers named her play about exotic dancers as the winner over 24 other contestants. Her play, *Stripped*, will receive a professional reading in Calgary this spring and undergo a number of dramaturgical meetings with an aim to getting the play produced. *Stripped* is based on the exotic dancers Bailly met during a cross-Canada trip last summer. "Their world has a lot of tragedy and beauty, and some amazing characters too, which is pretty well everything you want to have in a great play," she says.

What is genomics, anyway?

How does genomics differ from genetics? How does it impact our health? What social and ethical implications do new discoveries have? UVic's Ben Koop (biology) and Conrad Brunk (centre for studies in religion & society) will be among the panelists discussing these issues at "Genomics and Us," a free public forum on Wednesday, April 21, 6:30-8:30 p.m., at the Royal B.C. Museum's Newcombe Conference Hall. The forum is being presented by Genome BC and is part of a series designed to make science more accessible to the general public. No science background is needed and attendees are encouraged to participate in the discussion. For more information call 1-866-637-4390 or e-mail info@genomebc.ca.

Engineering ingenuity on display

A method of deterring wild animals using sound and motion detectors was just one of 21 projects on display when UVic's fourth-year electrical and computer engineering students presented their final design projects last month. Other projects included: a fuel-cell powered portable infant incubator; a voice processor that melds spoken percussion and digital audio; a filter that allows musicians to custom-create their own audio files; and a fully functional autonomous robot. Awards were given for the best designs by the local chapter of the international organization, Institute of Electrical and Electronic Engineers. For a complete list of projects and awards visit www.ece.uvic.ca/499.

Cycle safely—and with confidence!

Have you contemplated cycling to work or class but don't feel comfortable in traffic? Boost your confidence levels by taking a free, one-day cycling traffic skills course on Saturdays and Sundays in April, May and June. The eight-hour course, developed by the Bike to Work Society and sponsored by UVic, combines classroom and practical on-road training. Topics include: riding comfortably and safely in heavy traffic; tips for night riding and rain; how to maneuver around obstacles and make sudden stops; and bike safety checks. For more information visit www.biketoworkvictoria.ca or contact Susanna Grimes at 920-5705 or courses@biketoworkvictoria.ca.

Springing ahead with high-tech clocks

The new continuing studies building is sporting the latest in high-tech time-keeping—a wireless analog clock system that is accurate to the second and never out-of-sync, even during a power outage or a seasonal time change. The same technology will be part of the soon-to-be-completed medical sciences and engineering/computer science buildings. The wireless technology includes a transmitter that receives signals from a constellation of Global Positioning System (GPS) satellites, and then rebroadcasts the signals via FM radio to the clock system. The clocks run on batteries that last more than five years, keeping maintenance and costs low.

UVic honours community-minded students

Eleven UVic students who combine good marks with good works in the university and wider community were honoured March 16 with Blue and Gold Circle Awards. The awards recognize those who combine solid scholastic achievement with community involvement and activism. Each student received a certificate, a pin and a cash award. This year's recipients were honoured for work in organizations as diverse as the Cystic Fibrosis Foundation and the B.C. Special Olympics to William Head Theatre on Stage and the World University Services of Canada. To learn more about the award-winners, read their biographies at communications.uvic.ca/tips/tip040317a.html.



Music students Jamie Davis (left), Jessica Lott (right) and Jen Smith (background) in a practice session.

"Jingle king" donates \$1 million *continued from p. 1*

music education at UVic," says Dr. Budd Hall, dean of education. "It's a wonderful legacy that means music education will be strengthened, particularly when music programs in schools are under such pressure. This is the perfect gift at the right time, a great encouragement to students and teachers."

"Don Wright's generosity means perpetual support for excellence in teacher education at UVic," says Faye Wightman, UVic's vice president external relations. "We're delighted that he has recognized UVic in this fashion and chosen to support our students with such kindness."

Born into a musical family, Wright took to music at an early age. In his youth, he and his brothers founded an orchestra. "Everyone," he notes "wanted to

dance to it." As a student at the University of Western Ontario in the early 1930s, he conducted the university orchestra, organized the school band and introduced the "girl drum major" to Western football games. A top athlete, he set a Western track record for long jump—23 feet—that was unbroken for 40 years.

Wright taught music, classics and history at Sir Adam Beck Public School in London, Ontario, and in 1935 married Lillian Meighen, the daughter of former Canadian Prime Minister Arthur Meighen. Wright went on to a career in radio, composed music for television and wrote music for hundreds of advertising spots—earning him the title of Canada's "jingle king." He wrote a number of now-standard books on devel-

oping the young singing voice and music suitable for children's changing voices.

Wright's connection to UVic began in the late 1970s. While teaching at an Ontario summer music camp he met two young students who went on to pursue their studies in music education at UVic. Wright ultimately endowed two UVic scholarships in music education. In 2001, he was granted an honorary doctorate of music by the university in recognition of his work and contributions to music education in Canada.

"UVic and I share a common cause," says Wright. "We want to help develop great music teachers with that special ability to reach kids through music—to give them that precious gift."

Research chairs *continued from p.1*

Research Chairs awarded to UVic earlier this month. The other is Dr. Raymond Siemens, Canada Research Chair in Humanities Computing, who is looking for new ways to adapt books, newspapers, magazines and journal articles to the electronic medium.

"More than half the people who live in developed countries get information of this sort directly from the Internet," says Siemens. "It took us over 1,000 years to understand the medium of print. Today, we understand almost intuitively

how to access, navigate, and read print materials. But electronic text is only several decades old, and the World Wide Web even younger."

Siemens' work will help create new computing tools for data-harvesting, textual content analysis, document encoding application and conversion, and communication processes. As well as his research, Siemens will teach a course on Shakespeare and a course that traces the evolution of books from 2,000 years ago to the present.

Siemens is currently a lecturer in

the English department at Malaspina University-College and a visiting senior research fellow at the centre for computing in the humanities at King's College, London. He'll join UVic's English department in July.

Both are tier-two chairs, valued at \$100,000 over five years. UVic now has 20 Canada Research Chairs. For more information on the Canada Research Chairs program visit: www.chairs.gc.ca.

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ring

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BUDGET HIGHLIGHTS

Planning for growth

The budget framework provides for:

- the addition of 372 full-time undergraduate and graduate students.
- improvements on campus including: an additional \$400,000 to UVic's libraries for acquisitions; \$687,000 for quality improvements such as new course selections and added faculty in high-demand areas; and \$100,000 for new resources for students with a disability and counselling services.
- additional space on campus by allocating \$1.6 million from international student tuition revenue to establish a building fund.

Tuition

The budget framework provides for:

- a 16.6 per cent increase in domestic undergraduate tuition, raising the cost of annual tuition to \$4,238 in 2004-05 from \$3,635 in 2003-04.
- a seven per cent hike in domestic graduate tuition, an increase from \$4,116 in 2003-04 to \$4,404 in 2004-05.
- an increase in tuition for undergraduate international students raising the cost of annual tuition to \$12,500 in 2004-05 from \$11,000 in 2003-04. This increase reflects the second year of a four-year program moving toward a cost-recovery model for international students.

Student financial assistance

The budget framework provides for an increase of \$2,009,500 in student financial assistance. With this commitment, UVic has surpassed its goal to be among the top 20 per cent of Canadian universities offering student financial assistance. In 2004-05 UVic's total student financial assistance will exceed \$9.9 million.

The 2004-05 program includes:

- a one-time-only allocation of \$900,000
- recurring funds of \$779,000
- \$81,000 from differential fees
- \$199,500 from international student revenue
- \$50,000 in graduate teaching fellowships

Differential fees and program fees

Differential fees are applied to base tuition in programs where there is a higher program delivery cost, where graduates tend to move into careers with substantially higher average earnings and where the faculties must remain competitive with other Canadian programs.

- The budget framework includes a \$500 increase per term (to \$1,000 per term) in the faculty of law differential fees, a continuation of a three-year plan introduced last year. Similar differential fees are proposed for 2005-06. The fees will increase law tuition in 2004-05 to \$3,710.60 from \$2,824.70.
- The budget framework increases the MBA differential fee by \$811 per term in 2004-05, bringing the cost of tuition per term to \$3,333.40 from \$2,426.70.
- There is a \$100 increase to the existing \$500-per-term MBA program fee. An MBA program consists of six terms, but the program fee only applies to the first five terms.

Other fee increases

- Student residence fees will increase between 1.19 and 2.13 per cent.
- Rents in family student housing will rise between 4.9 and 7 per cent, the first increase in two years.
- Parking fees on campus will increase, on average, by about 15 per cent with 10 per cent of the increase allocated to initiatives in UVic's transportation demand management report.
- Child care fees will increase nominally by .98 to 1.14 per cent.
- After-school care fees will increase between 8.6 and nine per cent, reflecting a single monthly payment that covers all annual school closures.



VALERIE SHORE

Wild, with new sensor.

New sensor may lead to energy savings

by Maria Lironi

Mechanical engineering professor Dr. Peter Wild's newest invention is small enough to sit in the palm of your hand, yet it has the potential to make the pulp and paper industry more efficient.

His device—known as a force sensor—could lower costs for the pulping stage of the paper-making process and allow the industry to become more competitive.

There are two main pulping techniques: chemical pulping and mechanical pulping. It's the latter that interests Wild.

Modern mechanical pulping mashes the wood chips between rotating metal disks to produce pulp. While this refining method provides a higher yield than chemical pulping, the resulting paper quality is lower. That's because the energy-intensive grinding method breaks many of the wood's fibres.

As a result, the paper has a weaker fibre network and a high lignin content, which causes it to

yellow when exposed to sunlight. Paper produced by this process is used mainly for newsprint, telephone books and other applications where high-quality paper is not really needed.

Wild, along with Daniel Ouellet at the Pulp and Paper Research

Institute of Canada (PAPRICAN) and Marc Sabourin of Andritz Ltd. (an international technology group that makes advanced production systems for the pulp and paper industry), has spent the last five years developing a force sensor that can be embedded in the metal disks.

"The sensor measures the force being applied to the wood chips and pulp by the rotating metal disks," says Wild. "In this way, the refining process can be controlled to give a desired quality of pulp."

The sensor will undergo trials at a B.C. mill in 2005. If successful, the sensor could significantly lower the amount of energy required for the pulping process.

The project is funded by the Mechanical Wood-Pulps Network (one of 21 national Networks of Centres of Excellence), PAPRICAN, Andritz and the Natural Sciences and Engineering Research Council.

Peter Wild joined UVic's mechanical engineering department in 2003, but is no stranger to this campus—he earned his PhD here in 1994. Wild's main research focus is renewable energy. Along with colleagues in UVic's institute for integrated energy systems, he's working on an experimental computer system that will be used to study how to integrate renewable energy into real-world applications. In a related project, he's developing an energy plan for a remote northern community. He finds this work particularly rewarding as "remote communities offer one of the most promising applications for renewable energy."

Budget provides for growth continued from p.1

\$12,500 from \$11,000. This reflects year two of a four-year progression to move toward a cost-recovery model for international undergraduate students.


The budget framework also provides for improvements such as: \$400,000 to UVic's libraries for

acquisitions; \$687,000 for quality improvements such as new course sections, added faculty in high-demand areas and new resources for students with a disability; and \$180,000 for technical support for upgrading information systems.

UVic's tuition increases follow

similar hikes for 2004-05 at SFU and UBC.

The additional student spaces announced by the province on March 26 (see story, p. 6) are not part of the budget framework and any ongoing impacts will be incorporated into future budgets.



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Monthly Income Based on \$100,000

| REGISTERED RETIREMENT INCOME FUND (RRIF) | | | | | | | |
|--|-----|--|-----------|-----------|--|-----------|-----------|
| | AGE | 55 | 60 | 65 | 69 | 75 | 80 |
| Minimum Payout* | | \$232 | \$269 | \$321 | \$379 | \$643 | \$711 |
| Total Payout to Age 100 | | \$211,073 | \$188,866 | \$169,466 | \$155,716 | \$140,371 | \$129,762 |
| Accelerated Payout: | | Income over 5 years... \$1,800 Income over 10 years... \$992 Income over 15 years... \$721 | | | Total 5 year payout... \$109,804 Total 10 year payout... \$119,846 Total 15 year payout... \$130,511 | | |

*Based on best current GIC of 3.75%. Returns will vary depending on investment vehicle.

| LIFE ANNUITIES | | | | | | | |
|---------------------------------|-----|-------|-------|-------|-------|-------|---------|
| | AGE | 55 | 60 | 65 | 69 | 75 | 80 |
| Male | | | | | | | |
| ...payments cease at death | | \$548 | \$607 | \$692 | \$773 | \$954 | \$1,197 |
| ...10 years guaranteed | | \$537 | \$587 | \$651 | \$706 | \$812 | \$936 |
| Female | | | | | | | |
| ...payments cease at death | | \$500 | \$546 | \$611 | \$684 | \$851 | \$1,075 |
| ...10 years guaranteed | | \$495 | \$538 | \$596 | \$655 | \$768 | \$899 |
| Joint Life: 10 years guaranteed | | \$462 | \$496 | \$544 | \$596 | \$702 | \$828 |

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Star search

A UVic astronomer's laboratory is on the other side of the universe

by Valerie Shore

A long time ago in a galaxy far, far away... Sounds like the introduction to *Star Wars*, doesn't it? It's also a great way to summarize the work of Dr. Sara Ellison, whose scientific curiosity extends far beyond the boundaries of Earth—and into the far reaches of the universe.

Ellison is a UVic astronomer and Canada Research Chair in observational cosmology who studies the chemical evolution of galaxies. "It's a quest to answer the most fundamental question of all," she says. "How did we get from the simple ingredients that came out of the Big Bang to the rich fabric of galaxies and stars we see around us today?"

The Big Bang refers to the massive explosion that scientists believe created the universe more than 13 billion years ago. Over time the universe has expanded and cooled, and galaxies—essentially large cities of stars—were formed. Our own Milky Way galaxy, for example, has tens of billions of stars, including our sun.

It's the distant galaxies that hold special interest for Ellison. "Light from these galaxies was transmitted millions or billions of years ago," she says, "so as we look further and further away it's like taking slices through the history of the universe."

But the further away a galaxy is, the fainter it looks through even the most powerful telescopes. To get beyond that problem—literally—Ellison looks to the edge of the observable universe for intense points of light known as quasars.

"The light from these quasars has to travel far to get to me and my telescope, so the chances are it will go through a galaxy along the way," she

explains. "If that happens, then some of the light will interact with the various gases in that galaxy."

By studying the spectrum of the quasar light when it finally reaches Earth, Ellison can determine if there's a galaxy in between, how far away it is and its chemical composition.

For the last six years, Ellison has led an international project to verify the accuracy of using quasars to study galaxies.

"The concern was that if we have a galaxy that's far along in its evolution and has produced a lot of dust which absorbs light, we might not be seeing a quasar behind it," she explains. "So our optical surveys might be biased against more evolved galaxies."

The Complete Optical and Radio Absorption Line System Survey (CORALS) used radio telescopes—which measure electromagnetic waves that go straight through dust—to select distant quasars. The results were then compared to data from optical telescopes.

"What we've found out so far is that there's not a big difference. That's good news because it means we can still rely on data from optical surveys, which are lot easier to collect."

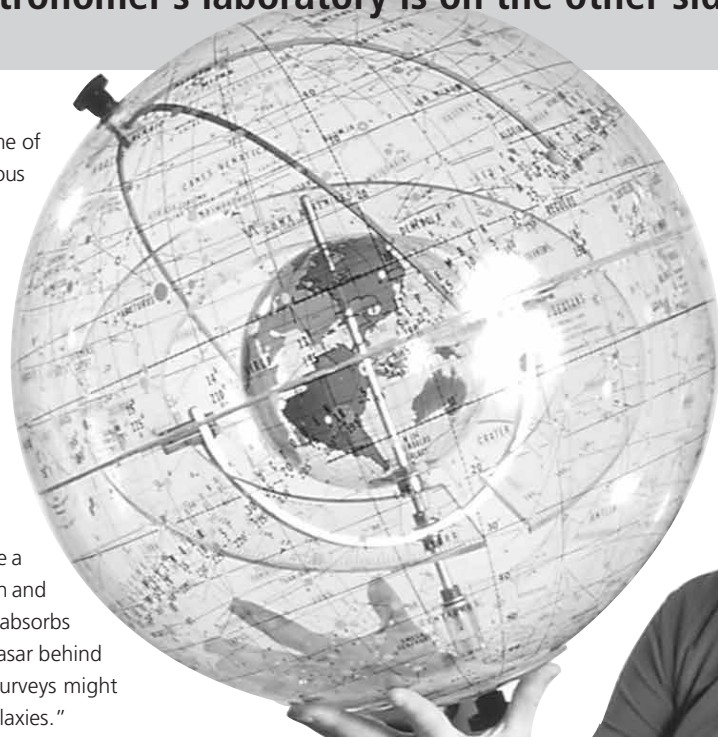
Follow-up studies are planned over the next few years. One of these, using the Very Large Telescope (VLT) in Chile, will determine whether the galaxies identified by CORALS are more chemically evolved due to higher rates of star formation. Another study, using the Hubble Space Telescope and radio telescopes in West Virginia and India, will measure how much gas is in these galaxies, and their temperatures.

"These observations will provide one more

piece of the puzzle toward figuring out the nature of distant galaxies," she says.

Ellison joined UVic in 2003 after three years at an observatory in Chile. She's also worked with telescopes in Australia, Spain and Hawaii and recently completed a project using the Hubble Space Telescope. Her ongoing work, funded by the Natural Sciences and Engineering Research Council and the Canada Foundation for Innovation, enhances UVic's growing reputation as a world-class centre for galaxy research.

"Our theory group does simulations on how galaxy structure evolves over time, and my observations can test those theories," she says. "It's a perfect fit."



Ellison with a celestial globe

GREGG ELLIEN

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UVic grad wins prestigious Fulbright scholarship

by Patty Pitts

UVic alumnus Ian Scott has been awarded a prestigious Fulbright-OAS Ecology scholarship.

The award, valued at more than US \$30,000 over two years, recognizes Scott's outstanding academic achievement and extra-ordinary contribution to the fields of sustainable development and environmental protection.

Scott currently works for Ecotrust Canada, where he co-ordinates community resource management and planning projects within B.C.'s Georgia Basin region. He holds a UVic bachelor's degree in geography with a minor in environmental studies.

Every year, one individual from each country in the Western Hemisphere is awarded a Fulbright-OAS Ecology scholarship. Scott is the second Canadian to win it.

The scholarship supports exceptional individuals throughout the Americas who have contributed in important ways to sustainable development in their own countries. Scholars have the opportunity to pursue advanced academic degrees in the U.S.

Scott will pursue a master's in community and regional planning at the American university of his

choice. His research will focus on participatory planning and its application to regional and community economic development, with particular reference to First Nations communities. His interest lies at the intersection of economics, community development and environmental protection.

"Communities on both sides of the border are facing similar challenges, such as environmental degradation, changing economies and social upheaval," he says. "I'm excited by the opportunity to study how planners and communities in the U.S. are dealing with these important issues."

"I'm very proud to see a UVic graduate join the distinguished ranks of Fulbright scholars," says UVic President Dr. David Turpin. "Ian's success reflects the emphasis we place on interdisciplinary education, which prepares graduates to tackle the real issues facing our world."

Long regarded as the world's premier academic exchange program, the Fulbright program attracts scholars from more than 150 countries worldwide. The program has engaged nearly 600 scholars in academic exchanges since 1990.

University hires new director of human rights

by Patty Pitts

A UVic alumna with 14 years of experience delivering human rights programs to universities has been appointed to the new position of director of human rights at UVic. Cindy Player assumes the new position effective May 1.

Creation of the new position within an amalgamated office of equity and human rights was a key initiative of the report of the external review on equity and fairness at UVic.

As human rights director, Player will provide leadership, in consultation with groups and representatives of UVic, in the development and co-ordination of discrimination and harassment plans, policies, and procedures.

"I'm delighted that Cindy is returning to UVic to fill this very important role," says UVic President Dr. David Turpin. "Cindy's appointment is the first significant step toward a new office structure that is better equipped to identify and address human rights and equity needs and priorities."

Player is currently a human rights consultant with the city of Hamilton, Ontario. Prior to that, she was the sexual harassment/anti-discrimination officer at McMaster University for 11 years and a human rights educator in Carleton University's status of women office. She holds a BA in sociology from



Player

UVic and a master's in social work from Carleton.

Player will work with director of equity Linda Sproule-Jones to create a work and academic environment at UVic that affirms and promotes the dignity and diversity of everyone on campus.

"Cindy brings a strong consultative style and lots of experience working collaboratively, which is so important in human rights and equity work," says Sproule-Jones. "The new office structure provides a much better opportunity for collaboration, particularly on systemic issues which will benefit from combined efforts and different perspectives. We'll also work jointly to provide more education and training on a number of mutual and overlapping issues."

Player will also work with Peter Sanderson, the executive director of human resources, on the resolution of workplace conflicts not within the jurisdiction of the office of equity and human rights and on the development of human rights policies and procedures.

"I'm looking forward to working with Cindy to develop a more proactive service to UVic employees and a more streamlined process for handling interpersonal conflict," says Sanderson. "In the past it's sometimes been confusing for people to know where to go initially. I'm optimistic that Cindy's expertise and experience will help us change that."

Player will promote her office's accessibility to employee and student groups while helping them employ best practices on human rights.

"I'm cautiously optimistic that the director of human rights will do the comprehensive outreach with students that is necessary to create a more inclusive campus community," says UVic Students' Society chairperson Jude Coates.

"I'm hopeful that Cindy Player will work extensively to bring to the surface many of the very serious inequity issues that the equity and fairness review has only begun to address."

Honorary degrees continued from p.1

carver in the Royal B.C. Museum's Thunderbird Park until the mid-'80s when he began his career as an internationally admired artist. He has produced an amazing array of work that includes Kwa-giulth masks, totems, drums, rattles, prints, jewelry and art on clothing. His design, "The Kulus," was used for the bronze medal at the 1994 Commonwealth Games in Victoria. (June 1, 2:30 p.m., DFA)

There are few areas of Victoria arts, culture, and health care that haven't benefited from the efforts of **Jane Heffelfinger**. She has actively supported Pacific Opera Victoria, was the arts and culture chair

of the Victoria Commonwealth Games, and served as a director of the CBC. Her fundraising skills have advanced the Greater Victoria Hospital Foundation and the UVic Foundation. (June 2, 2:30 p.m., LLD)

A physician, scientist and advisor to American presidents, Dr. **Morris Collen** is known as the father of multiphase health testing and medical informatics—the use of computers and statistics to manage health information. His contributions to his field and his unquestioned ethics have led to two major awards being named in his honour. His book, *The History*

of Health Informatics in the U.S., is in worldwide use. (June 4, 2:30 p.m., DSc)

Born in 1903, **Percy Wilkinson** has been a teacher, school administrator, World War II air force officer, and, for 80 years, a volunteer with the Boy Scouts of Canada. A medal was minted in 2002 to commemorate his extraordinary service as a scout. He is a 1926 graduate of Victoria's Provincial Normal School for teachers and an honorary life member of the Air Force Association of Canada. (June 1, 10 a.m., LLD)

in memoriam

Dr. **Robin Wood**, principal emeritus of the Victoria Conservatory and for many years the Lansdowne scholar for UVic's school of music, died after a lengthy battle with cancer on Feb. 28. Two nights before his death, the Lieutenant Governor presented Robin and his wife, Winifred Scott Wood, with Lifetime Achievement Awards for their 39 years of service and support to the province's musical community. Robin wore many hats during his lifetime, including performer, host of a television music program, adjudicator and examiner. But he was pre-eminently the finest piano teacher of his generation in Western Canada. Known also for his many kindnesses and acts of generosity towards students, his pupils also tell affectionate stories about his love of cats, late night radio, computers and outrageous puns, and his obsession with the Vancouver Canucks. In January Robin told me, "I'm doing what I love doing. My only regret is that I won't likely see my present students through to the end of their time here." Robin continued to teach until a week before his death.

Contributed by Bruce Vogt, head of piano in the school of music and a colleague for 24 years. For the full tribute to Dr. Wood visit www.finearts.uvic.ca/music/intro.

UVic plant sale keeps gardens growing

by Mary-Lou Leidl

It's that bloomin' time of year again when Finnerty Garden Friends and volunteers host UVic's annual plant sale.

Whether you're an avid collector or a first-time gardener, there are plenty of plants to choose from to help brighten the garden year-round. Hanging baskets, plants for the rockery or pond, trees, shrubs and vines, herbs and vegetables—native, exotic, annual or perennial—they'll all be at the McKinnon Gym on Sunday, May 2 from 10 a.m. to 1 p.m.

"Prices are better than at a nursery, but it's the quality and selection that people come for," says Rhonda Rose (facilities management), one of two UVic gardeners who keep the Finnerty Gardens thriving. Dahlias and chrysanthemums are new at the sale this year, as is a stall for the younger set, "Gardening for Kids."

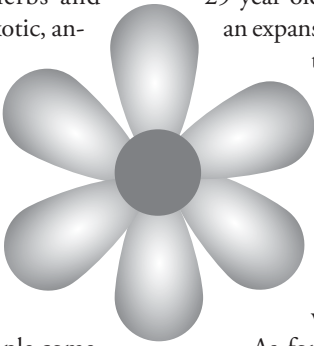
One of the largest and perhaps oldest plant sales in Victoria, the UVic Plant Sale is the financial

backbone for the development of the gardens' stunning six-acre site. And to keep up with a trend for the more diverse and unusual, the sale now depends on professional growers as well as donations from private gardeners to supply many of the plants. Proceeds from the sale support special projects and acquisitions.

Thanks to last year's sale, which netted close to \$14,000, the 29-year-old gardens underwent an expansion and facelift along the west side of the Henderson Road entrance. And after a few too many dry summers, an improved irrigation system that gauges water use was installed.

As for the sale itself, it's a good idea to bring carrying boxes and to come early, says Carmen Varcoe of Friends of Finnerty Gardens. Plant experts will be on hand to answer questions and give advice.

Guided tours of Finnerty Gardens are available Sunday, May 9 from 1–4 p.m. Meet at the chapel entrance.



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What might have been

UVic archivist Jane Turner shows off a 1964 rendering of what the UVic campus might have looked like, with a series of high-rise residences, a sculpture-and-fountain hybrid, and an administration tower. It's one of several plans and drawings on display in an archives exhibit, "Unbuilt UVic," assembled by associate archivist Lara Wilson. The collection of structures that "might have been" is of particular interest right now, given the current construction boom on campus, says Turner. "Unbuilt UVic" is on display in the archives, located in the library basement, until the end of the summer.

Two UVic researchers awarded \$3.35 million in CFI grants

by Valerie Shore

Climate and ocean research at UVic has been boosted by two grants totalling more than \$3.35 million from the Canada Foundation for Innovation (CFI).

Climatologist Dr. Andrew Weaver will use a \$2.42 million grant to create a regional super-computer facility at UVic for advanced studies on climate change. Geophysicist Dr. Ross Chapman will spend his \$932,500 grant on improvements to ROPOS, Canada's world-class deep research submersible. Both researchers are faculty members in UVic's school of earth and ocean sciences.

"This is excellent news for UVic," says Dr. Martin Taylor, vice president research. "Both projects are funding world-class facilities that will build on UVic's role as an international leader in climate and ocean research."

The new climate modelling facility will feature one of the world's fastest supercomputers. "Over the last 10 years we've developed an earth systems climate model that is now used by researchers around the world,"

says Weaver. "Now we want to look at climate questions that haven't been addressed by anyone, anywhere."

In particular, the team will model the climate system over the last 135,000 years to try and understand its influence on human evolution. "To better inform industry and government policy decisions, we need climate models that represent the interactions of economic, social, technological and biogeochemical factors," says Weaver. "This facility will help us do that."

The ROPOS (Remotely Operated Platform for Ocean Science) submersible, operated by the Canadian Scientific Submersible Facility and housed at the Institute of Ocean Sciences in Sidney, is used by scientists from many universities, including UVic.

The CFI-funded improvements—which will be managed by the facility on behalf of UVic—will allow ROPOS to: operate in deep water on both coasts of Canada; navigate accurately and operate more frequently in mid-depths; obtain more types of simultaneous observations; and conduct more

precise and delicate manipulations.

The modifications will support UVic research on gas hydrates and fluid flow in sediments, deep sea ecology and biodiversity, and resources from hydrothermal vents.

ROPOS will also be equipped to transmit real-time video from the seafloor to scientists and students ashore anywhere on the continent. "All of these changes will make ROPOS the first-choice submersible for ocean scientists worldwide," says Chapman, who in 2002 used ROPOS to discover the largest amount of methane hydrates ever found on the seafloor off Canada.

In this latest round of Innovation Fund grants, CFI has awarded \$470.7 million to 126 projects at universities, colleges, research hospitals and other non-profit research institutions across Canada. The CFI is an independent, not-for-profit corporation established by the federal government to support innovation in Canadian universities and research institutions.

Province adds more student spaces

The provincial government has announced it will fund an additional 1,900 student spaces at UVic between 2004 and 2010.

The March 26 announcement came after UVic's 2004-05 budget framework was drafted and any ongoing impacts will be incorporated into future budgets. A total of 4,000 new seats was announced for Vancouver Island's five postsecondary institutions. UVic was allo-

cated its new seats as follows: 432 in 2004-05; 417 in 2005-06; 243 in 2006-07; 269 in 2007-08; 269 in 2008-09; and 270 in 2009-10.

The 1,900 new spaces are in addition to the 24 new seats per year that will be added over the next four years as part of the new Island Medical Program.

"It's crucial that we increase the capacity of postsecondary institutions throughout the province so students have more access,"

said Shirley Bond, Minister of Advanced Education.

"These additional seats will help government meet its commitment to make university programs accessible to students who earn a B average."

UVic will determine where the seats will be added while honouring a commitment to add seats in nursing, electrical and computer engineering.

National project makes crime pay for history teachers

Go online and get in touch with your inner sleuth

by Patty Pitts

What do the murder of 19 settlers in 19th-century B.C. and the unresolved death in 1920 of a 12-year-old Québec school girl have in common?

Both cases remain unsolved and both are now part of a national history teaching project giving all Canadians the opportunity to sift through evidence, play the role of sleuth and learn more about Canada's rich history in the process.

These whodunits are part of the "Great Unsolved Mysteries in Canadian History" national Web site which was launched April 2. UVic historian Dr. John Lutz, the project's co-director, also issued an invitation to Canadians to nominate other unsolved mysteries for inclusion.

"Crime does pay off for history teachers," says Lutz. "We want to encourage students from junior high to university—and anyone else interested in Canadian history—to get in touch with their inner sleuth and become involved in historical research. Eventually we'd like to have up to 13 unsolved mysteries on this site."

Lutz and University of Toronto historian Dr. Ruth Sandwell originated the award-winning *Canada's Unsolved Mysteries* project with their first site, "Who Killed William Robinson?", about an aboriginal man who may have been wrongly hanged on Saltspring Island in 1868 for the murder of a black settler. It was voted the best educational site in North America in 2002 by the North American Web Network.

It also prompted the Department of Canadian Heritage to give UVic \$162,000 to expand the site to its current state with the addition of two new unsolved mysteries. Like its predecessor,

the new sites include actual court testimony and newspaper reports about the events, archival photos and other historical documents. In using the sites, students develop the analytical skills used by historians to identify, select and evaluate evidence from the past to create new knowledge and maybe even "solve" a mystery.

"Nobody Knows His Name: Klatssasin and the Chilcotin War" examines a crucial but nationally little-known war in 1864 between the Tsilhqot'in people and the colony of B.C. When 19 settlers were killed that year, it was the deadliest attack by aboriginal people on immigrants in Western Canada. Was it war, terrorism or murder? Was it revenge for the spread of smallpox? Survivors of the attack said the Tsilhqot'in chief, Klatssasin, was the ringleader, but who were the real killers?

The second Web site addition, "Aurore! The Mystery of the Martyred Child," examines the case that became a cause célèbre in Quebec and is still well-known. Did Gagnon die of natural causes, as was reported at the time, or did she die at the hands of her father and stepmother? How could the torture of a child happen in a small community where everyone knew everyone else's business?

"Instead of telling students 'what happened,' the students themselves are invited to become detective-historians," says Lutz. "As they discover who did it and why, they learn about the great themes of our history and gain an intimate knowledge of how Canadians lived and died in the past." Visit the site at www.canadianmysteries.ca.

Great Unsolved Mysteries in Canadian History



FROM GRAFFITI TO TREASURES OF ANCIENT GREECE

UVic's art museum and gallery celebrates its 40th birthday

by Marni Friesen

In 2001, the Maltwood Art Museum and Gallery was filled with the dynamic, technicolour urban creations of local graffiti artists, part of a collaborative exhibition and fundraiser with the Victoria police's Rock Solid Foundation.

"Some of the work was fabulous," says Maltwood director Martin Segger, though he recalls, "we did get some nasty calls about why we'd display graffiti in an art gallery."

The exhibit, which led to the Maltwood's ongoing relationship with Rock Solid and Esquimalt's outdoor Trackside Art Gallery, is a good example of how the museum continues to make cultural connections with the community around it.

"I like to stretch the concept of who and what an artist is, and who gets displayed in a gallery," adds curator Caroline Riedel.

The art museum and gallery marks its 40th birthday this year. Its original benefactor was Katharine Maltwood, a sculptress born in Victorian England, who amassed an extensive collection of fine and decorative art during her lifetime. Initially housed in "The Thatch," Maltwood's Tudor-style cottage in Royal Oak, UVic moved the collection of paintings, sculptures, furniture and curiosities to its present University Centre location in 1978.

The current gallery space, tucked behind the auditorium, is one of dozens built across the country in the late '70s. Funded by the federal government, the gallery and storage facility was built to National Exhibition Centre standards, including a 3,000-square-foot exhibition space and carefully controlled storage and display areas designed for best preservation of artifacts and artwork.

Through the '80s and early '90s, exhibits as diverse as treasures from ancient

Greece and arts and crafts from Papua New Guinea could be ordered out of an annual catalogue from the National Gallery of Canada.

"Free exhibits would simply arrive on our doorstep," remembers Segger, who has been connected to the gallery since his years as an art history undergraduate at UVic in the late '60s. "Often, these were exhibits that had come to Canada on loan."

Availability of funding for such lavish projects declined throughout the 1990s. But at the same time, decades of gifts from generous donors were building up the Maltwood's own collection. One of the most exciting donations in the gallery's history came in 2000 with the Michael Williams estate and its 1,200 works of art—many of them masterpieces by well-known Canadian artists such as Myfawny Pavelic, Richard Hunt and Toni Onley.

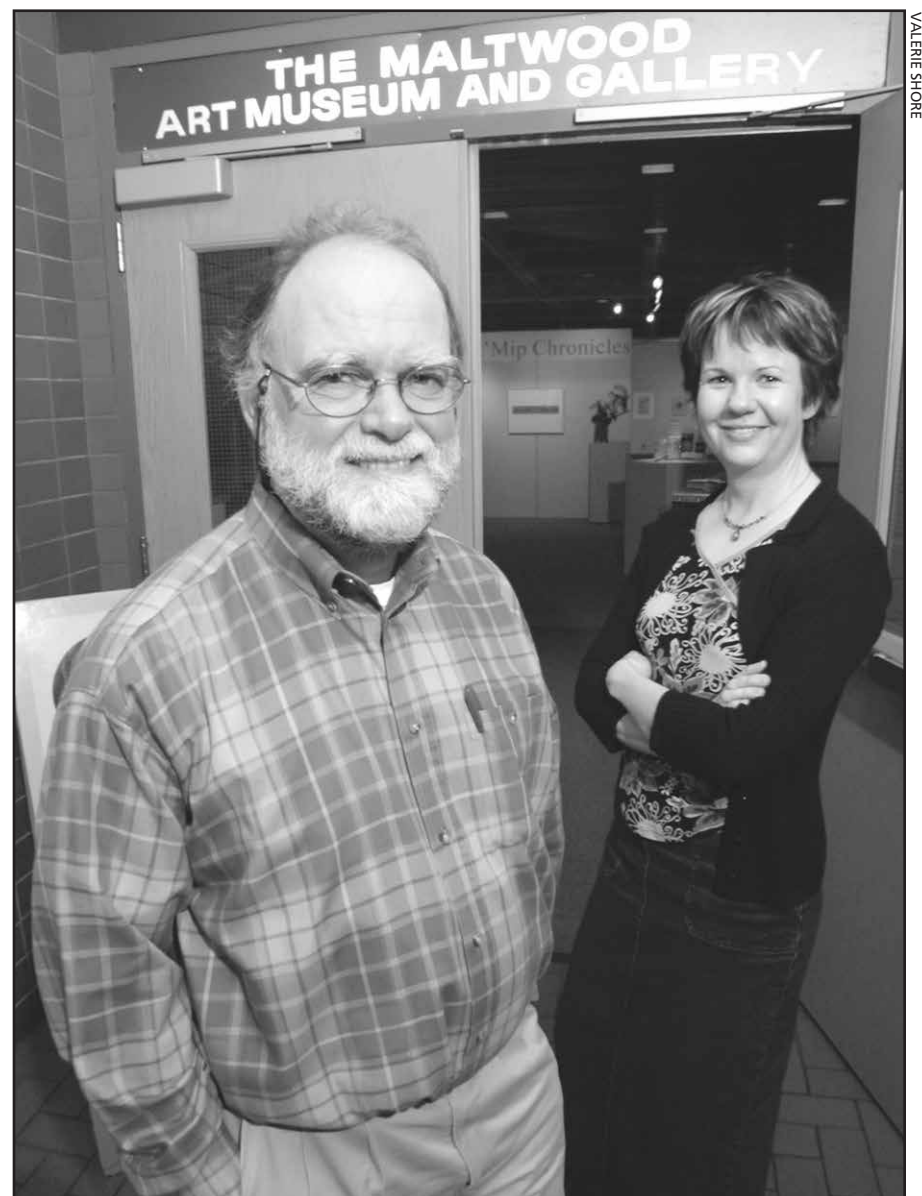
Today, Riedel estimates the gallery's holdings at about 15,000 items.

That extensive collection means the Maltwood has become a precious resource for UVic faculty and students, who use the collection as the basis for research projects. Last year alone, more than 500 students and staff used the gallery as a platform for research and study. Faculty are

even curating exhibits, such as the current *Nk'mip Chronicles*, an exhibit put together by Dr. Andrea Walsh (anthropology), showing the multi-cultural influences at work in the art of Okanagan children during the 1930s and '40s.

"Over the years, the gallery has become more public generally," says Segger of the Maltwood's continuing evolution.

Items from the Maltwood collection are housed around the university and throughout Victoria. Hundreds of works are on display across the city, from UVic's McKinnon Library to Government House to Swans Hotel



Segger, left, and Riedel.

and Pub.

And with the advent of the Internet, people anywhere in the world can view much of the Maltwood's collection online. Soon, people will be able to take a virtual tour of Swans Hotel and view all of its resident artworks via the Internet.

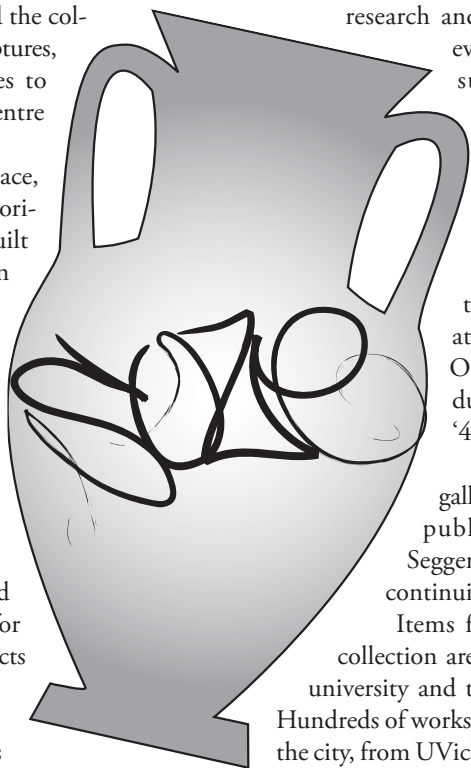
The Maltwood is also stepping entirely outside the physical gallery in its pursuit of art. One example is its continuing involvement with the Trackside Art Gallery, where the work of young local artists is reproduced on a grand scale on

the concrete walls bordering an Esquimalt stretch of train tracks.

And a research project currently underway is examining modern architecture of Victoria and the 1950s-era suburban neighbourhood of Topaz Heights. "We're making local connections to larger historical themes," says Riedel.

Muses Segger, "It raises the question, where does the gallery end and the community begin?"

TODAY, THE GALLERY'S HOLDINGS ARE ESTIMATED AT ABOUT 15,000 ITEMS



Donation enhances gallery's northwest art collection

A UVic alumnus has donated nearly \$70,000 worth of northwest coast art to the Maltwood Art Museum and Gallery.

The donor, Dr. Peter Smart, is a retired professor of mathematics from Royal Roads Military College and a friend of the late Kwakwaka'wakw artist Henry Hunt. The two met while Hunt was working as the master carver at the Royal B.C. Museum, a position he held from 1962 to 1974.

Over the years of their acquaintance, Smart collected many of the master carver's works. "I thought of selling the pieces," he says, "but I love them so much I'd like many other people to enjoy them as well." He felt the collection would be accessible to the largest number of viewers through the Maltwood.

The gift of five prints and 17 carvings represents a significant collection of Henry Hunt's early

carving and print-making work. It will complement pieces of Henry Hunt's work already held by the university, including two totem poles that dominate the centre of campus, carved by Henry and his son Tony in the 1960s.

Henry Hunt received an honorary doctorate of fine arts from UVic in 1983. Another of his sons, the renowned carver Richard Hunt, will be awarded the same degree this June.



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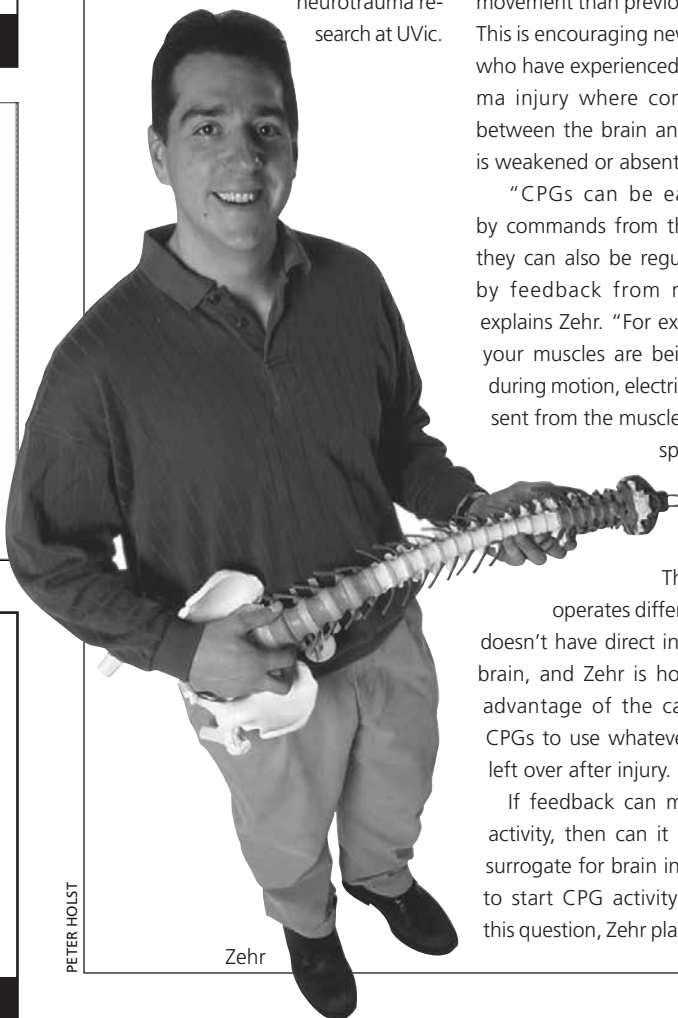
www.uvic.ca/ring/

Treading new paths for neurotrauma rehab

by Shannon McCallum

Inside UVic's motor control research lab, investigations into such commonplace activities as walking is revealing secrets about the nervous system that may one day improve motor function in people who have suffered stroke or spinal cord injury.

Directing this research is Dr. Paul Zehr of UVic's school of physical education, armed with nearly \$1 million in funding and a desire to advance neurotrauma research at UVic.



PETER HOLST

Zehr

Zehr is a leading expert on rhythmic movement. His research in this area over the past few years has focused on how our arms and legs are co-ordinated when we perform such rhythmic motor activities as walking and cycling. His results and the work of others suggest that rhythmic motions are controlled to a large degree by a collection of neurons in the spinal cord called "central pattern generators" or CPGs.

In fact, the spinal cord may play a much larger role in controlling movement than previously thought. This is encouraging news for people who have experienced a neurotrauma injury where communication between the brain and spinal cord is weakened or absent altogether.

"CPGs can be easily started by commands from the brain, but they can also be regulated in part by feedback from movement," explains Zehr. "For example, when your muscles are being stretched during motion, electrical signals are sent from the muscles back to the

spinal cord that reinforce the CPG activity."

The spinal cord operates differently when it doesn't have direct input from the brain, and Zehr is hoping to take advantage of the capabilities of CPGs to use whatever function is left over after injury.

If feedback can maintain CPG activity, then can it also act as a surrogate for brain input and help to start CPG activity? To address this question, Zehr plans to conduct

experiments in which participants wear special gloves or clothing that increase the electrical feedback signal to the CPGs while they're performing rhythmic activities. The idea is that artificially enhancing this signal may help to compensate for the reduced signals from the brain.

Zehr is hopeful that this line of inquiry will yield some positive results.

"Feedback can help do it," he says, "although it may not be enough in the complete absence of brain input. But with incomplete injuries, there's still a little bit of input from the brain that can help jazz things up, so combined with feedback you can hopefully get things working."

If the technique works, it could be the basis for more effective rehabilitation therapies for people with neurotrauma.

Funding for Zehr's research and lab operation costs comes from the Christopher Reeve Paralysis Foundation, the Heart and Stroke Foundation of Canada, the Michael Smith Foundation for Health Research, and the Natural Sciences and Engineering Research Council.

This article was written by Shannon McCallum, a student in the faculty of graduate studies, as a participant in the UVic SPARK program (Students Promoting Awareness of Research Knowledge), supported by the vice-president academic and provost and the vice president research.



Longtime Victoria arts supporters leave UVic legacy

Fine arts students at UVic will benefit from a \$230,000 gift from the estate of longtime Victoria arts supporters, Maurice Johnson and Audrey St. Denys-Johnson.

The bequest to the faculty of fine arts will establish five annual scholarships of about \$2,000 for one student in each of the five fine arts departments: music, theatre, history in art, writing and visual arts.

"Audrey and Maurice were extraordinary people and life-long friends of the faculty. They've supported our students for decades,"

says Dr. Giles Hogya, dean of fine arts. "This gift will further support the creative potential of students for generations to come."

The Audrey St. Denys and Maurice E. Johnson scholarships in fine arts will honour a couple with a life-long appreciation of the arts.

Johnson grew up in Sooke and, as a young man, lived and worked in Malaya. During World War II he was a machine-gunner with the 4th Panang Battalion, and later served as a captain with the Canadian Intelligence Corps. Following his return to Victoria he earned a BA

at UVic and a law degree at UBC. He practised law until his retirement. He loved theatre, music and gardening.

St. Denys shared her husband's love of theatre and music, and was a highly regarded theatre critic, writing the arts column for the *Victoria Times* from 1944 to 1980 and the *Victoria Times Colonist* until 1987. Her documentation of the growth of the UVic theatre department was also extensive, and her husband donated her papers to UVic in 1995, two years after her death.

University wins award for green initiatives

UVic is this year's recipient of Tourism Victoria's Environment Award in the organization category. The award recognizes the university's new campus plan, which features environmental sustainability as one of its core operational principles.

The campus plan places an emphasis on progressive water management and UVic has just completed a draft integrated storm-water management plan. UVic has also reduced the use of pesticides

in open spaces, is restoring the protected Garry Oak Meadow and Mystic Vale, and is re-introducing native plant species in landscaped areas such as the native plant study garden and the bee and butterfly garden.

New buildings will incorporate low-impact development practices and UVic's medical sciences building is seeking LEED (Leadership in Energy and Environmental Design) accreditation. The university has

undertaken several programs to increase energy efficiency on campus.

In addition, UVic's McKinnon Aquatic Centre was one of the first facilities of its kind to apply solar panel water-heating technology. Facilities management executive director Jerry Robson and interim sustainability co-ordinator Sarah Webb accepted the award on behalf of the university on March 24.

Survey reveals strong views on academic dishonesty issues

by Patty Pitts

The preliminary results of a recent survey on academic integrity reflect a general climate of trust and respect at UVic and show strong agreement that academic misconduct devalues the educational experience and the university's degrees.

Yet 12 per cent of students and 25 per cent of faculty also agree that academic dishonesty is a serious problem at UVic.

The results were part of a recent presentation by Dr. Don McCabe of Rutgers University, whose study on academic integrity formed the basis for the survey conducted at UVic in February. Co-ordinated by the learning and teaching centre (LTC), with the endorsement of UVic's vice president academic and the undergraduate and graduate student societies, the survey attracted more than 3,660 students, over 240 faculty and 104 teaching assistants—an average 20 per cent participation rate from each group.

"The results suggest there's a reasonable understanding of our policies and procedures and a positive perception of how UVic deals with issues of academic integrity," says Dr. Geri Van Gyn, director of the LTC. "But there's also very strong evidence that education for students and instructors is needed, particularly around issues of collaboration and the appropriate use of resources from the Internet."

Of the students surveyed, 80 per cent said they've never cheated on a test while just over half responded that they had never plagiarized or were dishonest on written assignments. Forty-nine percent of the student respondents owned up to copying or paraphrasing material for a paper or project, usually from the Internet, without footnoting or referencing the source.

The numerical results and written comments clearly indicate confusion over exactly what constitutes academic misconduct when it involves the use of information from the Internet.

One respondent felt that "if it's on the Internet, it's public knowledge, so it can't be plagiarism." Other students considered it acceptable to cheat when doing what they considered "make work" assignments or work superfluous to their main educational goals. Only two per cent admitted to using Internet paper mills as the source for essays or papers. All of these data are very similar to those reported from 10 other Canadian universities.

"We're asking students to be honest about their dishonesty," says McCabe who, nonetheless, felt the data accurately reflected the situation at UVic. He noted that both students and faculty indicated high workloads and demands on their time were factors on whether a student chose to cheat and whether an instructor chose to pursue those students suspected of unethical academic conduct.

"Students tend to uphold the values [of academic integrity] if they feel that the demands placed upon them are fair and reasonable and they believe they have the resources and capacity to meet those demands."

Students said they wanted consistency in how instructors dealt with those who cheat. In written comments, some complained that students who brought cell phones and calculators into exam venues were not always reprimanded, when the items were clearly forbidden.

Faculty said the main reasons they didn't pursue students whom they suspected of academic misconduct were "lack of proof" or "lack of time." The written observations of teaching assistants reflected a strong feeling of frustration and a sense of "futility" in convincing faculty to pursue cases of misconduct.

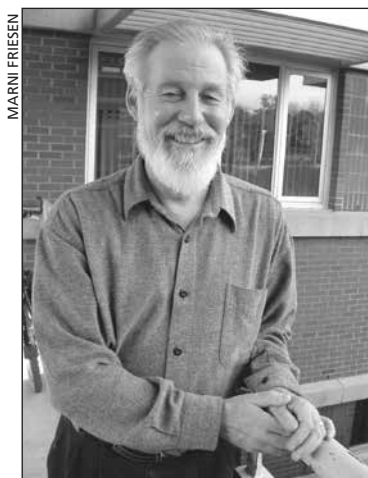
Survey results suggest that upholding academic integrity is not the duty of one group but the responsibility of all members of the UVic community. Written comments from all groups point toward a strong desire to convert the results of the survey into action.

"We'll use the good relationship between students and faculty that was evident in the survey to enhance academic integrity," says Van Gyn. "The results will inform the development of educational resources and support to help students be aware of and abide by our academic integrity guidelines."

As an initial step, the May edition of the LTC newsletter *Currents* will contain academic integrity information and resources for instructors that they can consider for use in their fall term courses.

Over the summer, the LTC will complete a comprehensive statistical analysis of the numerical results and a content analysis of approximately 10,000 comments made by the survey participants. A formal report is expected in the fall.

Group puts UVic "on the map" in population research field



Mosk

by Marni Friesen

Governments can't make decisions on important issues such as distributing health care dollars, setting immigration quotas or counteracting the spread of diseases such as HIV without accurate demographic information about the populations they're trying to serve.

Yet population and demograph-

ic research has traditionally been an under-recognized field in Canadian universities, according to UVic demographer and economist Dr. Carl Mosk.

As the director of a new, interdisciplinary population research group on campus, Mosk and 10 other UVic scholars are committed to raising the profile of this vital field of study. "Population studies refers to anything dealing with population size, density, age, health, and the dynamics of population growth," says Mosk. "By nature, it tends to reach across disciplinary boundaries."

UVic has always had top-notch population researchers distributed across many faculties, from sociology and anthropology to economics, history and mathematics and statistics.

Some of the group's members have already been collaborating for years, such as Dr. Eric Roth (anthropology) and Dr. Pauline van den Driessche (math and

statistics). They're working on population modeling of the spread of sexually transmitted infections in eastern Africa.

The formation of the population research group in early January has created a hub that will help UVic's population scholars share expertise amongst themselves, says Mosk. Equally important, he hopes it will be a venue to share knowledge with undergraduate and graduate students, and with the wider academic community.

"We would like the national and international community of demographers to know that UVic is "on the map" in the population field—that it's a force promoting population-related research in Western Canada," says Mosk.

"We want to encourage the local community, scholars and policy-makers to take advantage of the expertise we can offer."

To learn more about the population research group and its members, visit www.prg.uvic.ca.

new faculty

When **Stephen Evans**, right, joined the biochemistry and microbiology department in 2003 he brought with him some impressive hardware. A structural biologist, Evans uses x-ray crystallography to understand the function of proteins involved in cancer development and therapies. The centrepiece of his research program at UVic is a \$550,000, state-of-the-art X-ray diffraction area detector, which he's using to study the enzymes that make the A, B and O human blood types. The detector was acquired with funds from the Canadian Institutes for Health Research and UVic. Evans earned his BSc and PhD at UBC. In 2002, he was named by the Thompson Institute for Scientific Information (ISI) as one of the world's most-cited researchers in the field of computer science and medicine.



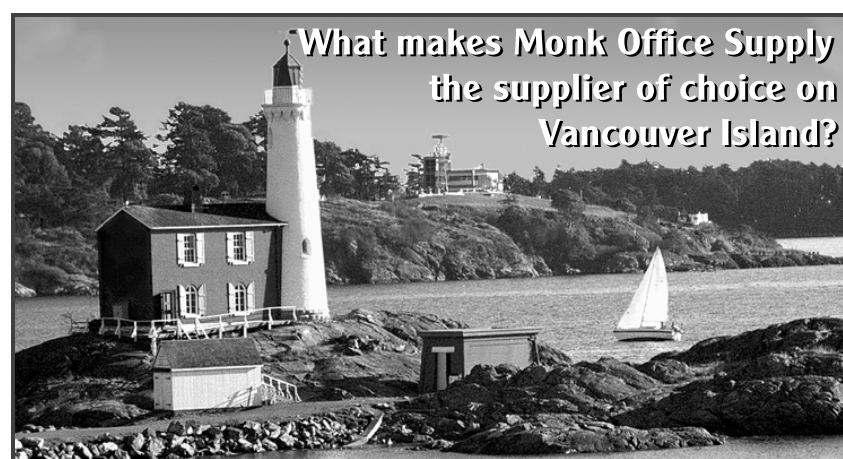
Evans and the new detector.

Daler Rakhmatov's specialty is system-on-chip engineering, reputed to be one of today's most exciting technologies behind mobile phones, personal digital assistants, and other portable devices. Rakhmatov joined UVic's electrical and computer engineering department in 2003 after completing his doctorate at the University of Arizona. "The key design challenge today," he says, "is to strike the right balance between system cost, performance and energy consumption, which will lead to cheaper, faster and longer-lived portable devices tomorrow."

Helen Raptis describes herself as a social historian and historical sociologist in education. She researches historical and contemporary developments in education and society including cultural diversity, race, gender, policy development and learners at risk of dropping out of school. Raptis earned her PhD from UVic in 2001. "I love my work because of the freedom it affords me to research critical questions, not only about our schools but about society at large," she says. Raptis recently co-authored the C.D. Howe Institute study *Reframing Education: How To Create Effective Schools*.

After a 10-year hiatus in eastern Canada and the U.S., **Anthony Goerzen** has joined UVic's faculty of business. Goerzen spent 15 years in various sales, marketing, and general management positions in industry. His last position before returning to graduate study was as vice-president of a multinational firm in Florida. Goerzen's University of Western Ontario PhD thesis on multinational corporation strategy won several dissertation and best paper awards. "I think international strategies are interesting," he says, "and my goal is to show UVic students why they should be interested too."

Oliver Schmidtke, associate professor of the departments of history and political science, is busy co-directing the European studies program and developing new courses. The focus of his research and teaching is comparative European politics and the transformation of citizenship and national identity under the impact of migration and globalization. "It's fascinating to see how European societies start to struggle with issues that have become part of Canada's reality as a multicultural society," says Schmidtke, who earned a PhD in social and political science from the European University Institute.



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At the annual athletics awards banquet in March Vikes women's basketball star **Krystal O'Byrne** was awarded the university's highest varsity athletics honour, the President's Cup, for her accomplishments on and off the basketball court. O'Byrne, who graduates this year with an A average and a BSc in biology, has also won the 2004 Sylvia Sweeney TSN Award from Canadian Interuniversity Sport (CIS) for her commitment to athletics, academics and community involvement. O'Byrne volunteers with the Queen Alexandra Centre for Children and as a fundraiser for cancer research through the Journey of Hope. Also at the awards banquet, rugby player **Ed Fairhurst** was named male outstanding athlete-of-the year and paralympic swimmer **Stephanie Dixon** won top female honours. For a complete list of all award winners visit: web.uvic.ca/atrsweb/vikes/.

Dr. **Julio Navarro** (physics & astronomy) has won the Friedrich Wilhelm Bessel Research Award from the Alexander von Humboldt Foundation in Germany. The award, valued at approximately \$71,000 Cdn, recognizes Navarro's research accomplishments in galaxy formation and cosmology. This award is intended to assist extended research visits by foreign scientists to German science institutes and universities. Navarro, who begins a sabbatical year in July, is making plans to work with Dr. Simon White, director of the Max Planck Institute of Astrophysics in Garching, Germany.

Dr. **Ali Dastmalchian**, dean of business, is one of the newest members of the board of directors of the BC Venture Society, a non-profit entity that operates the TELUS New Ventures BC competition. One of North America's largest technology business idea competitions, the province-wide contest includes a unique mix of business education seminars, networking, mentoring and \$120,000 in cash and prizes. The exposure and cash help entrepreneurs acquire the business skills they need to get their technology ideas to market. UVic has been a supporter of the competition since it began in 2001.

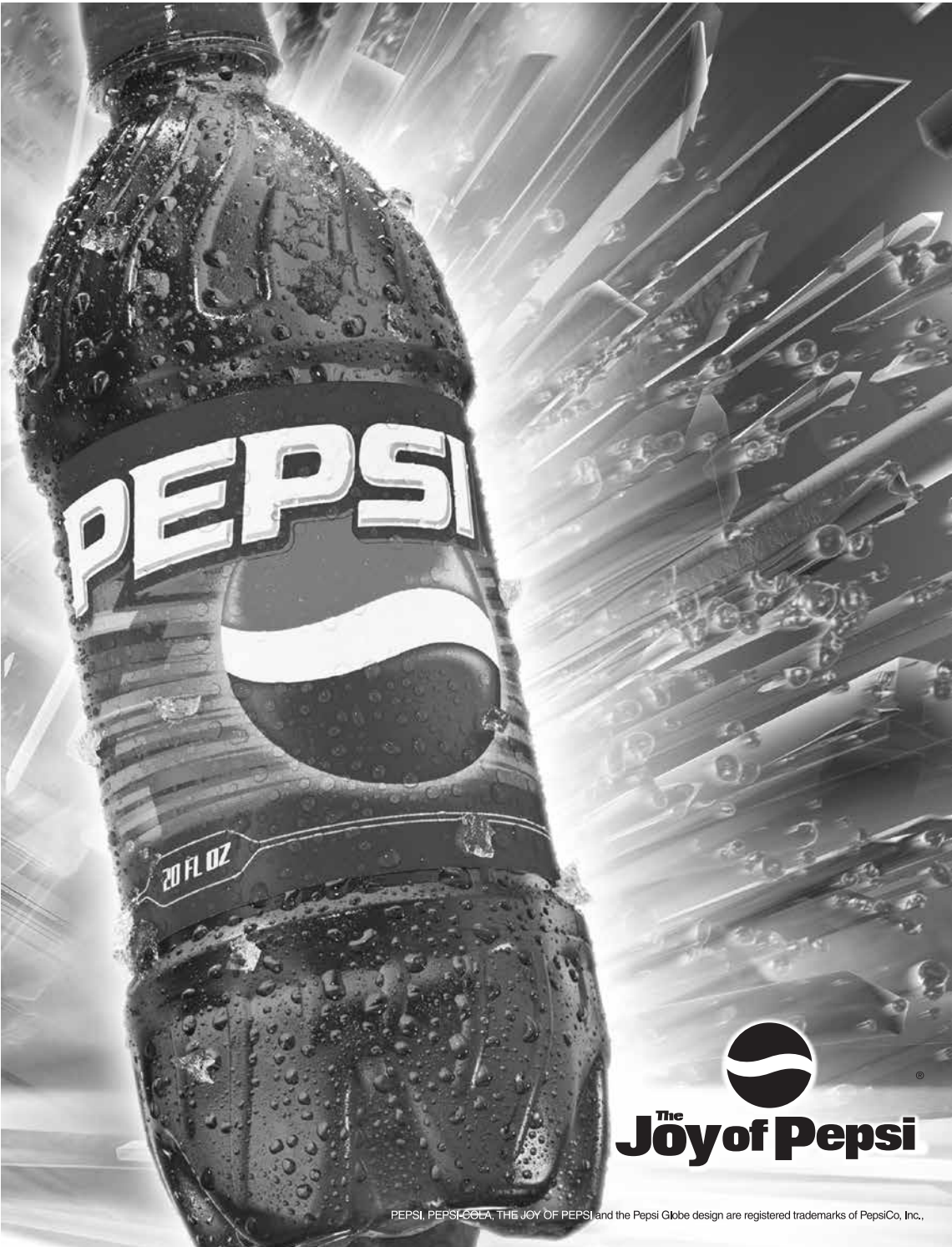
The Canadian Council of Professional Psychology Programs has granted Dr. **Marion Ehrenberg** (psychology) the 2004 Award for Excellence in Professional Training. The award recognizes Ehrenberg's outstanding contributions to students in her role as teacher and director of the clinical psychology graduate program at UVic. "Dr. Ehrenberg is alert to the way she can merge research and clinical practice," says Jennifer Pringle, a doctoral student in the clinical lifespan program. "She's a strong and supportive role model who is highly respected among students in the program."

Dr. **Betty Hanley** (curriculum & instruction) has won the Jubilate Award, presented biennially by the Canadian Music Educators Association (CMEA) for outstanding contributions to music education in Canada. A faculty member at UVic since 1987, Hanley teaches music foundations and choral music in the elementary, secondary and graduate programs. She's been very active in the CMEA through her work in organizing symposia and conferences, and co-edited a book to mark the organization's 40th anniversary.

Dr. **Mark Colgate** (business), **Thea Vakil** (public administration) and business student **Mario Ramos** were on hand to receive the UVic Commerce Students Society (CSS) Award of Excellence at the 10th annual Commerce Business Banquet on March 18. Each year the CSS recognizes an instructor (in this case, two), student and business for their outstanding achievement and contribution to the faculty of business. KPMG was this year's recipient for the business award.

Dr. **Anne Marshall** has been appointed to a three-year term as chair of the department of educational psychology & leadership studies, beginning July 1. Also, in our March Ringers column, it was incorrectly stated that Drs. **Kathy Gillis** (school of earth & ocean sciences) and **Will Hintz** (biology department) are heading their respective units for four-year terms. They are, in fact, serving five-year terms ending in December 2008.

Dr. **Daniel Scott** (child & youth care) and instructors **Robina Thomas** and **Jacqui Green** (social work) are the 2004 recipients of the faculty of human and social development's Excellence in Teaching Awards. Scott, a leading researcher in the field of spirituality and children, has had a major hand in developing postgraduate programs in child and youth care. Green and Thomas, of the Haisla and Coast Salish Nations, respectively, are the architects and co-teachers of two innovative First Nations specialization programs in the school of social work.



Input still sought for stormwater management plan

UVic is more than home to 18,000 students, 700 full-time faculty and over 1,500 staff. The campus is also the site of headwaters for four area drainage systems: Bowker Creek to the west; Finnerty Creek to the north; Sinclair drainage system to the northeast; and Hobbs Creek to the east.

UVic's 2003 campus plan identified the need to create an integrated stormwater management plan to make recommendations on reducing the quantity and improving the quality of stormwater leaving the Gordon Head campus.

The draft of the plan is now complete. It's the result of research and consultation with neighbouring municipalities, members of community associations, and UVic students, faculty and staff by RCL Consulting, a group of leading-edge engineers and specialists.

Members of the public viewed the plan at an open house at UVic on March 25 and public feedback will be accepted until April 19. The report determines that UVic has no urgent or serious stormwater-related problems requiring high-cost attention. Most remedial

stormwater measures can be incorporated into new construction and ongoing building, road and parking lot renovations.

"The intent of the report is to guide UVic in making decisions about new building projects with the potential to decrease water runoff," says Jerry Robson, executive director of facilities management.

The study indicates that by reducing impervious surface areas and providing additional stormwater storage through in-ground and surface storage, UVic could reduce its offsite discharges by up to 16 per cent.

"UVic already has a great deal of natural land contributing to stormwater storage and retention," adds Sarah Webb, the university's sustainability co-ordinator. "The report has identified initiatives such as landscape modification, permeable pathways and parking areas to reduce runoff and improve water quality."

Copies of the draft integrated stormwater management plan are available on the facilities management Web site at web.uvic.ca/fmgt.

Campus development committee split in two

UVic's campus development committee (CDC), responsible for advising the president on the long-range planning of the campus's physical development and on its new building projects, is undergoing a re-alignment.

On April 5, UVic's board of governors approved a recommendation that the CDC be reconstituted into a policy committee and an operations committee. The change was one of the recommendations by the CDC review team which tabled its report with UVic President Dr. David Turpin in December. The CDC review was one of the 30 action items in the campus plan, approved by the board of governors in May 2003.

The new policy body, to be called the campus planning committee (CPC), will have a long-term focus. The operations group, to be called the facilities development and sustainability committee (FDSC), will focus more on specific projects.

The CPC will report to the president while the FDSC will advise the president and the CPC.

In making the recommenda-

tion, the review team cited the immense demands made on the current CDC, requiring members to deal with long and short-term perspectives, high-level policy and project-specific detail, and to possess quite different sets of skills and abilities.

There will be some cross-memberships between the two committees to assist in communication between the two groups. The 17-member CPC will be co-chaired by UVic's vice president finance and vice president academic. In addition to UVic vice presidents, deans, faculty members, students and staff, it will also include a local member of UVic's alumni association.

The FDSC will be chaired by the vice president finance and operations and have 11 members including an external planning or architectural professional and a local member of UVic's alumni association. More information about the committees, appointment processes, and the transition period will be available in the next few weeks.

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Page 10 The Ring April 2004

A sugar-coated answer

The fungus that causes Dutch elm disease holds promise of new protein therapies for humans

by Kristi Skebo

They're everywhere—on the ground after a rainfall, in the air you breathe and sometimes on the food you want to eat. "Fungi come in all shapes and sizes," says UVic biologist Dr. Will Hintz, whose research on fungi may help to make more efficient drugs to treat human blood and immune system diseases.

"They have unique genetic adaptations that allow them to live in so many different environments—marine, freshwater, terrestrial and even in your fridge."

Of particular interest to Hintz is *Ophiostoma novo-ulmi*, the fungus that causes Dutch elm disease. Transferred from tree to tree by bark beetles, the fungus clogs the water-conducting vessels within the tree, causing the leaves in the crown to wilt, curl, yellow and die.

Hintz studies the interactions between tree and fungus. Trees, like most other organisms, are able to identify foreign invaders such as fungi. Once a tree detects foreign organisms, it produces an arsenal of chemicals to rid itself of these invaders.

The outside of the fungus is covered in sugar-coated proteins produced by a process called glycosylation. The tree recognizes the fungal invader by this coating. By making the sugars more complex, the fungus is able to stay one step ahead of the host's defences. "We're interested in the sugar-coating process," explains Hintz. "It determines the character of a protein, how it functions and how long it survives."

Hintz, along with research associates Josh Eades and Paul de la Bastide, want to disrupt this sugar-coating process. "If we disrupt glycosylation, does the fungus become more vulnerable to the tree's natural defences?"

Their work in understanding glycosylation in *Ophiostoma* may turn out to be very useful for humans, particularly in the synthesis of effective protein therapies.

Glycosylation occurs in all eukaryotic organisms (organisms whose cell nuclei are surrounded by a membrane), and the human immune system identifies whether a foreign substance is friend or foe based on its protein coating.

Certain illnesses, including some blood-clotting and immune disorders, can be treated with protein pharmaceuticals, but these glycoproteins need to have the correct sugar coating to survive in the blood for relatively long periods of time and to avoid being recognized as foreign.

Currently, many protein therapeutics are manufactured in fungi such as yeast, but the glycosylation process in yeast is different from that in humans. Different types of sugars and different numbers of sugars are attached by the yeast. This means that, in humans, these much-needed proteins are recognized as foreign particles, and the immune system will, over time, destroy the proteins despite the body's need for them.

To make the treatments more efficient, longer-lasting therapeutics need to be created. Hintz and his group are helping in this effort, working towards creating a fungal system that produces glycoproteins that closely mimic human proteins.

"If we're able to copy the proteins that participate in the glycosylation process, we may be able to engineer therapeutic proteins that are more effective in treating these disorders," he says.



Hintz with cultures of the Dutch elm fungus

DIANA NETHERCOTT

This article was written by Kristi Skebo, a student in the faculty of graduate studies, as a participant in the UVic SPARK program (Students Promoting Awareness of Research Knowledge), supported by the vice president academic and provost and the vice president research.



calendar highlights

EVENTS FREE UNLESS OTHERWISE INDICATED. FOR A COMPLETE LIST OF EVENTS, SEE WWW.UVIC.CA/EVENTS

At the Galleries

Info: 721-6562

Exhibit Under Wraps: Redressing History. Textile works by Joanna Rogers Until April 29. McPherson Library Gallery.

Thursday, April 8

Centre on Aging Seminar 2 p.m. *Literacy, Older Adults & Health: What Do We Know? What Should We Know?* Dr. Irving Rootman, UVic. Strong C116. 721-6368

Friday, April 16

Public Administration Seminar 4 p.m. *Productivity to Reduce Poverty: The Case Study of a Micro Level Institution in Peru.* Dr. Pierre Pineau, UVic. Strong C112. 721-8056

Monday, April 19

Physics & Astronomy Lecture 3:30 p.m. *The Birth of Massive Galaxies in the Universe.* Dr. Scott Chapman, California Institute of Technology. Elliott 060. 721-7700

Tuesday, April 20

Physics & Astronomy Seminar 3:30 p.m. *Evolution of Luminous, Dusty Galaxies.* Dr. Scott Chapman, California Institute of Technology. Elliott 060. 721-7700

Sunday, May 2

Plant Sale 10 a.m.–1 p.m. Proceeds support Finnerty Gardens. 721-7014

Friday, May 7

Music 8 p.m. *2nd B.K. Weigel Concert—Faculty Recital.* Lafayette String Quartet. MacLaurin B125. \$18/14. 721-7903

RING PUBLICATION SCHEDULE SPRING-SUMMER 2004

Calendar items should be sent to UVic communications (Sedgewick 149, fax 721-8955, e-mail ucom@uvic.ca) or entered into the online calendar (www.uvic.ca/events) by no later than 4 p.m. on the Wednesday prior to the week of publication. **Calendar items are printed in The Ring on a space-available basis with priority given to academic events of broad appeal.** For more information call 721-7636.

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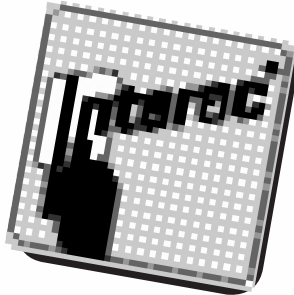
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UVic GETS AN ONLINE FACELIFT

The main UVic Web site is getting a fresh look.

The current site is nearly two-years-old and showing its age, says Rogier Gruys, who heads the UVic Web site team in communications services. "It's functional, but there are a lot of things that should be improved. The current site was intended as an interim solution while we worked on a larger redesign."

With 12,000 visits a day, the UVic Web site is one of the most used resources on campus. The new site looks similar to the current one, but is more user-friendly and has brighter colours and more design elements.

"Because our users are so accustomed to the current layout, we wanted to maintain the basic navigation to ease the transition," says designer Beth Doman. "We greatly increased the choices on the homepage, but were very careful to keep it clean and concise."

The most obvious change is a bright yellow bar across the top of the new homepage. The bar offers links to resources for UVic's main audiences.

Secondary pages have been improved, as well. A new A-Z index links to all units on campus, building information, a map, and directory information. Most pages have been completely re-

designed to make it easier to find important information.

There have also been improvements behind the scenes. Web programmer Dave Wolowicz has rewritten all the code to ensure that it complies with global Web standards.

"The new site has less code, so it downloads faster than the current site. Yet it has a lot of additional features to make it more user-friendly," says Wolowicz. "We've also added features to make it more accessible for disabled users. It's important that all users can access our site, regardless of their browser or operating system."

Wolowicz has tested the new site extensively with users. "We made a lot of changes to the initial design based on user feedback," he says.

A draft of the new site is available at www.uvic.ca/test. "We encourage everyone to try it out and get familiar with it before we launch it in early May," says Gruys. "We welcome any feedback, because a Web site is never 'finished.' We'll continue to tweak the site, even after we launch it," he says.



An example of the new homepage design

Grant expands successful anti-bullying program

by Patty Pitts

A successful anti-bullying program that is currently part of the K-3 curriculum in all Greater Victoria elementary schools could soon include older students, thanks to a US \$20,000 grant from the American Psychological Foundation (APF).

The award will allow UVic researchers to evaluate a pilot project extending the WITS program to Grade 4 and 5 students at Frank Hobbs School.

WITS, which stands for "Walk away, Ignore, Talk it Out and Seek Help," teaches youngsters skills for handling and preventing bullying. Established by the volunteer police organization, the Rock Solid Foundation, the program links resources of the police force, schools and UVic varsity athletes. University researchers studied youngsters for three years in six schools to evaluate the effectiveness of the program.

"This is the first time that the APF has sponsored community-based research," says Dr. Bonnie Leadbeater, the pilot project's principal investigator. "UVic's proposal in the category of research-based programs on violence prevention and intervention was chosen over 48 other submissions."

The grant will be used as seed money for "WITS Leads," a Grade 4 and 5 program that will address concerns raised by the three-year study of the WITS program. While that evaluation determined that levels of physical victimization fell

in schools incorporating the WITS program—especially in high poverty schools—drops in relational victimization (such as gossiping and social exclusion) were less pronounced.

"With WITS Leads we'll focus on making kids understand there are different kinds of bullying and different ways of being mean—it's not just about hitting someone," says Leadbeater. "We'll still emphasize the 'seek help' element while recognizing that kids are moving into leadership roles and need to develop leadership skills. We'll also explain how bystanders to bullying can contribute to the problem."

WITS Leads will contain elements of the language arts and social responsibility curriculum. Police officers will visit students to reinforce non-violent ways of handling peer conflicts. The program will teach children to act as peer leaders for primary children on the playground. Noon-hour drama and games and video-making will provide extra support and mentoring for children referred by parents or teachers who are having difficulty resolving peer conflicts peacefully.

The pilot project will continue until June, data will be studied over the summer and Leadbeater hopes to make WITS Leads available to other schools in the fall.

Engineering students win awards for brake-through technology

by Mary-Lou Leidl

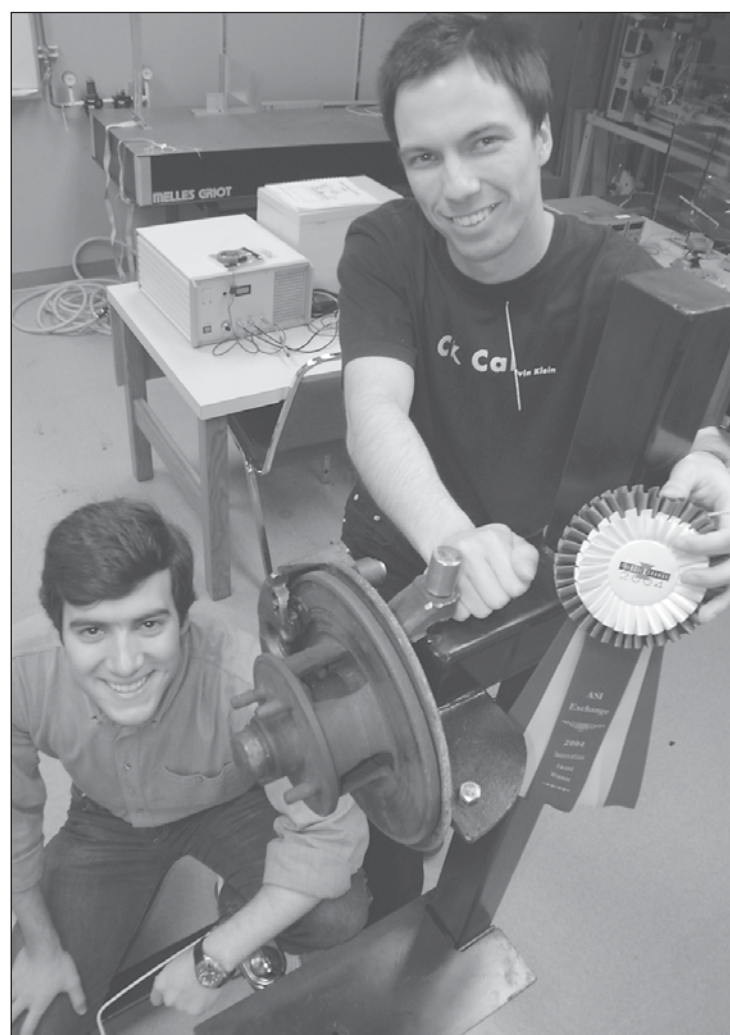
Imagine designing and building electromagnetic car brakes that perform better, respond faster and are kinder to the environment. That's exactly what a team of UVic mechanical engineering students did, and for their efforts they won a top award at the Advanced Systems Institute of BC (ASI) Exchange 2004 in Vancouver last month.

David Cruz, Luis da Luz and Stephen Ferguson received one of three ASI Innovation Awards for their research on magnetorheological and eddy current brakes.

The award honours university researchers and emerging companies for developing outstanding new technologies. Recipients are chosen based on their ability to show that their technologies are highly innovative and have potential for commercial success.

Three UVic students also won two of 15 ASI Exchange Communications Awards selected from more than 120 projects in the graduate category.

Gonçalo Pedro and his teammate Marc Secanell won the \$500 communications award for their research using computational tools to modify existing aircraft design and to create new ones that are more efficient, environmentally friendly and secure.



David Cruz (left) and Luis Falcao da Luz show off their innovation award. They measured their new braking system against a standard disc brake (pictured).

Glenn Mahoney, a UVic graduate student in computer sciences, received a communications award for his presentation on some lead-

ing edge research that uses computational models to evaluate trust in networked environments.