

## BCIT Events to Come

### Tuesday, June 21

- Board of Governors meeting, Administration building Boardroom, 1630.

### Wednesday, June 22

- Graduating Awards ceremonies in Town Square Cafeteria  
0830-1130  
School of Business  
1300-1500  
Schools of Engineering Technology and Electrical and Electronic Technology  
1530-1700  
School of Health Sciences

### Thursday, June 23

- School of Business convocation ceremony, Willingdon Conference Centre, 0930-1130.
- School of Engineering Technology convocation ceremony, Willingdon Conference Centre, 1530-1730.

### Friday, June 24

- Schools of Health Sciences, Electrical and Electronic Technology and Trades Training convocation ceremony, Willingdon Conference Centre, 1000-1200.

### Monday, June 27

- Operations Management information session, Administration building Boardroom, 1830-2030.

### Wednesday, June 29

- Computer Systems information session, Administration building Boardroom, 1830-2100.

### Friday, July 1

- Canada Day, BCIT closed.

### Friday, July 8

- Canoe/Kayak day, Jericho Beach, 1500.

### Monday, July 11

- Diesel, Heavy Duty, Commercial Transport information session, Administration building Boardroom, 1830-2030.

### Today's Chuckle

Law of Probable Dispersal: *Whatever hits the fan will not be evenly distributed. (This is also known as the "How Come It All Landed on Me?" law)* —from Eric Sukkel, Welding.

## More than just camels and sand

### Two Electronics Technology graduates visit the United Arab Emirates to attend Open House

It has been said that travel can be an excellent teacher. BCIT graduates Jan Borge and Peter Welk learned that lesson well during an 11-day visit to the United Arab Emirates last month.

And the first lesson they learned was: forget the stereotypical images of Arabia, of camels and deserts.

The reality they found was a sparkling, affluent, ultra-modern country where English is widely spoken, post-secondary institutions are equipped with the latest technology and the cities are covered with lush vegetation.

"I think it really opened their eyes," said Ron Sterne, the associate dean for the vice president of education who helped arrange the visit. "They may have thought it was only a lot of deserts and camels."

The visit was made possible as a result of an agreement of cooperation signed last December by BCIT President John Watson and the chancellor of post-secondary education in UAE.

That agreement encourages a wide range of staff and student exchanges, curriculum sharing and cooperation between the two schools.

"We met other students ... we really got to know a lot of people," said Jan Borge, a

double diploma graduate in micro-electronics and computer control. "They were dying to know what we were learning over here, what the temperature was and lots more."

Jan and Peter visited the Higher Colleges of Technology, Men's College in Abu Dhabi, as well as facilities in nearby Dubai and Al Ain. While in Abu Dhabi Peter and Jan participated in an open house day where they displayed their award winning industry sponsored student projects. (Jan has developed a revolutionary logic analyzer and has set up his own company to develop the product. Peter and fellow student Iain MacDonald developed a successful killer whale remote sensing project for the Vancouver Aquarian for use near Robson Bight.)

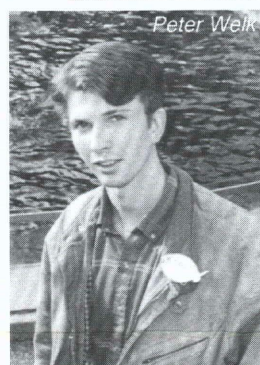
Peter and Jan returned from their trip with reports of being warmly welcomed and treated to excellent accommodations. They made the local press and even had a chance to spend a few minutes with a high level sheik.

"This sort of exchange broadens the perspective of both institutions, particularly when the cultures are so different," said Sterne. "It was a real opportunity of a lifetime."

The pair learned that the country is filled with thousands of foreign professionals holding



Jan Borge,  
riding high  
on a camel



Peter Welk

The modern capital  
city of Abu Dhabi.

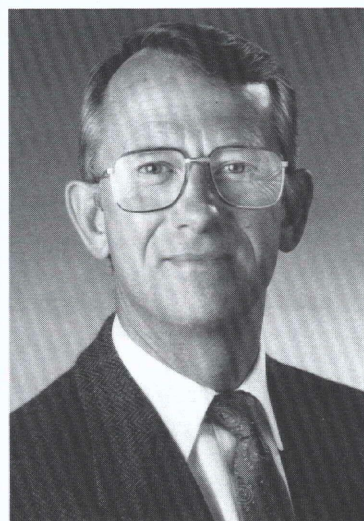


jobs in health care, education, construction, aviation, petroleum and high technology. One of the purposes of the country's post-secondary system is to train the affluent citizens of the UAE to eventually assume these roles.

Plans are in the works to have students from the Higher Colleges of Technology attend BCIT's next open house in 1996.

—from Terry Jorden

## New role fulfills three-year plan for School of E & E



Michael Jervis: new dean of the  
School of Electrical and Electronic  
Technology.

When the School of Electrical and Electronic Technology was formed on January 1, 1993, the position of dean would be shared during the first three years. For the first 18 months, Dennis Duffey served as dean. On July 1, the baton will be passed to Mike Jervis, currently associate dean.

"This arrangement was agreed to in order to develop the new school through its first three years of operation. My moving into the dean's position is simply the next stage of the original three-year strategy," explains Jervis.

The two men have worked closely since the new school began, and expect the partnership to continue in the future.

"Dennis and I share a common belief that careful and structured business planning is the key to success for our new school. We have some specific goals for growth in our day programs, in Part-time Studies, and Industry Services Training. We also believe that it is a key time for the development of procedures and practises within the school using the principles of quality management."

The five-year vision for the school's future includes a new building adjacent to the Electrical Training Centre that will bring the trades, technician and technology programs into close coordination; recognition as a benchmark for all levels of electrical and electronic training in the Pacific Northwest; authorization to offer a Bachelor of Technology degree in electronics; and acceptance as the dominant provider of industry service training in B.C.

—from Ruth Raymond



# Update survey provides valuable readership input

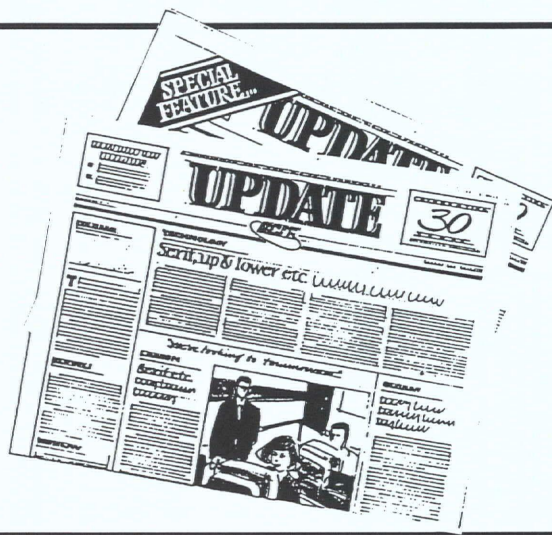
Update conducted a readership survey in March, and we would like to share some of the results with you in this issue. It's always exciting to hear comments about how much Update is enjoyed, but it's more important to hear about where we can improve.

Comments in the "What do you like most" category ranged from "It keeps me in touch with the rest of the campus." to "Nothing. It's just another newsletter."

In the "What do you like least" space, comments varied from

"Keep up the excellent work." to "Most of us don't have time to read lengthy newsletters every week. BCIT dollars could be better spent on educational or service needs."

The overall slant, however, was definitely positive, with descriptions such as "easy to read" and "informative" repeated on many of



the forms. Of the 37 responses, 81 percent preferred the new format, 86 percent considered the photography good, 92 percent found the calendar of events useful and 87 percent read Update every week.

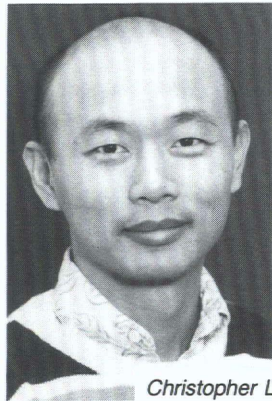
During the summer, Update staff will take an in-depth look at all the survey responses and discuss how we can

use the information to make the newsletter match readership expectations. We'd like to thank all of you who took the time to respond; it's important to hear from readers so we can ensure that we are serving the readership as best we can.

And now, in plenty of time for the rainy season, we announce the winner of our Update Readership Survey draw for a BCIT umbrella.

**Congratulations to Tanya Ebert of Health Part-time Studies!**

## News Briefs



Christopher Lee

### Enhance student success — new SA president

The newly elected president of the Student Association for 1994/95 says he wants to focus on providing services to support students. Christopher Lee, a Computer Systems Technology student, wants to work closer with the Employment Placement Services Centre, improve leadership skills among SET representatives and provide more services to help students deal with the pressures of being a student. Lee and the other newly elected executive members took office on June 1.

### 451-6856 is new security number

The old number for security was 230-0306. Now that the security office is open 24-hours a day, every day, there is a new number. While the old number will remain in effect, the new number is 451-6856

### United Way campaign gearing up for September

BCIT's 1994 United Way campaign will be co-chaired by Phyllis Johnson, manager of Administrative Support and Carol Dion, manager of Information and Community Relations. Phyllis and Carol will be counting on your support to make the campaign successful. Plans are underway for the annual Quack-a-thon scheduled for Wednesday, September 28 in conjunction with the staff appreciation barbecue. To register your team call Gail Mitchell at 8730. For those wanting to join the committee or to offer suggestions call Carol at 8865 or Phyllis at 8529.

### Australian exchange assistance offered

Are you interested in work exchange at the Swinburne University of Technology in Melbourne, Australia? If you have already indicated an interest or if you have just become aware of the program, contact Gail Mitchell at 8730. Gail, who is the assistant to the vice president of education, is leaving BCIT in September to take part in a six-month exchange at Swinburne. Ms. Helen Tracy of Swinburne will take over Gail's duties while she is away. Before Gail leaves she is prepared to meet with interested parties, review

resumes and help find a suitable match while in Melbourne.

### Computer Resources on the move

Computer Resources has temporarily relocated its office to allow for summer renovations. Most Computer Resources staff have moved to SE12-328 until August 24. Areas affected include Client Services, Management Information Systems, and Academic Services. Technical Support and Production Services remain largely unaffected and will not move. The Help Desk phone line (8888) will remain in operation. The Computer Resources training room will not be available during the summer,

resulting in the cancellation of all courses.

### LRU offers workshop in cross-cultural teaching

Facilitator Raymond Wlodkowski will be leading a Learning Resources Unit workshop entitled Enhancing Motivation Among Diverse Learners on August 29-30. The sensitivity and respect found in cross-cultural and cross-social learning environments can create a highly stimulating learning environment. After this two-day workshop you will have a practical model and ideas to help motivate students' learning in a culturally responsive manner. For more information or to register call 8927.



BCIT chemistry instructor Naz Abdurahman with conference presenter Tom Murphy of MacMillan Bloedel Research and conference coordinator Alan Davis from the Open Learning Agency. Mike Gdowski photo

### C3 held here

More than 100 participants from Canada and the United States attended the 21st annual College Chemistry Canada (C3) conference at BCIT June 9-12. The organization provides professional development activities for chemistry teachers. Some of the subjects discussed included developing chlorine free bleaching and using visible light to treat human diseases. BCIT chemistry instructor Shirley Reynolds gave a well-received presentation on the role of chemistry in nuclear medicine. "This talk clearly illustrated that knowledge of basic chemistry is an essential requirement for the understanding of the sophisticated procedures now employed in nuclear medicine," said chemistry program head Naz Abdurahman.

The BCIT UPDATE is published weekly throughout the school year by the Information and Community Relations Department within Marketing and Development. Ideas, tips, fax or written submissions should be forwarded to the editor by **1500 Fridays, five working days prior to publication.** The editor reserves the right to edit for brevity, libel and accuracy.

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## Taking the dog-work out of recruiting police dogs

Vancouver Police are looking at breeding their own police dogs after finding the move could mean better canine constables and eventually cut costs.

And it would take a bite out of the dog squad's most pressing issue: having a reliable source of four-legged recruits, says a study presented Thursday by BCIT business students.

"Over the last 15 years, the supply of suitable dogs has dropped drastically," notes Sgt. John Schouten, who's in charge of the force's 17-officer dog squad.

"We had to scramble last fall to find a dog for a new dog-master."

Working on the project since January, management systems students Doug Larsson, Noorez Padamshi and Nevin Dos Remedios proposed a cautious,

easy-to-evaluate start to a breeding program.

If approved, the plan would see the force spend a total of \$6,000 to buy one breeding female a year over the next three years.

Some of the dog squad's male German shepherds may be selected as mates.

BCIT management systems students undertake a wide variety of projects each year. This project discovered that initially it would break even and later make a profit because the cost of pure-bred German shepherds continues to increase.

"Usually when the squad looks at potential dogs, the quality can be all over the place," says Larsson, 25, whose team studied similar programs in Seattle and Calgary. "This would give a consistently high standard of dog."

Police want to study the costs further, but if the breeding program gets the go-ahead it would only take about a month to set up, says Schouten.

After that, it would be about 1½ years before the first of the program-bred dogs could begin its police training.

Usually three Vancouver police dogs a year are retired, sometimes more if one is injured in the line of duty or develops medical problems as happened last year.

Typically the force has recruited its dogs from animal shelters or private owners, but it can be a tough search, says Schouten.

Only about one in 10 German shepherds meets the medical requirement, as a serious hip ailment is common to the breed. Narrow that field even further

with needed background and temperament for police work, and finding a suitable dog can quickly eat up a lot of time and money.

Not only would a breeding program improve the odds, but it could even turn into a money-maker if it follows the lead of the Calgary Police Department's successful dog-breeding.

Officials there registered their breeding program as a kennel, notes Larsson, letting them sell dogs that don't make the cut for police duties.

Proposals are now being accepted for future projects for BCIT management systems students to take on next year. Call Bill Hooker at 451-6783 for more details.

— Stephen Barrington



Please recycle your BCIT Updates in the White Paper recycling bin.



## Gerontology lab developed by SFU/BCIT

BCIT's Technology Centre and the Gerontology Research Centre of Simon Fraser University are working together to develop the Living Laboratory, a 3,000-square-foot research and development centre.

"Between the theoretical research SFU does and the applied research at BCIT there is a natural synergy," said Cathy Daminato, director of Development at BCIT. "In fact, SFU and BCIT are working together on all aspects of the project, including fundraising."

An estimated \$1.5 million is required to build and equip the lab and establish a permanent endowment fund to support its core operation. Once completed, the lab will be located at the new Downtown Education Centre.

The project was conceived in response to the needs of aging and disabled members of our population. Researchers will use the lab to test experimental living space designs, component design (such as cupboard height and appliance accessibility) and assistive technology.

"This laboratory is a full-sized simulation of living environments, with state-of-the-art instrumentation," explains Dr. David Johnson, manager of health research and development at the BCIT Technology Centre. "It will provide a team of BCIT engineers and SFU human factors specialists with unique opportunities to study and develop better living environments for the elderly."

Researchers will monitor participants' reactions by using video, audio, infrared and physiological monitoring equipment. The Living Lab will be the first facility to incorporate this sophisticated behavioral monitoring and observational technology.

"Instructors will also be able to use the facility for teaching purposes," says Johnson. "In nursing, for example, the lifting and transfer of patients could be practiced at the lab."

The facility will provide research, development and educational opportunities for health care professionals, housing designers and developers, manufacturers of household products and assistive technologies, and the academic community.

—from Ruth Raymond



## APPLIED RESEARCH At The Technology Centre

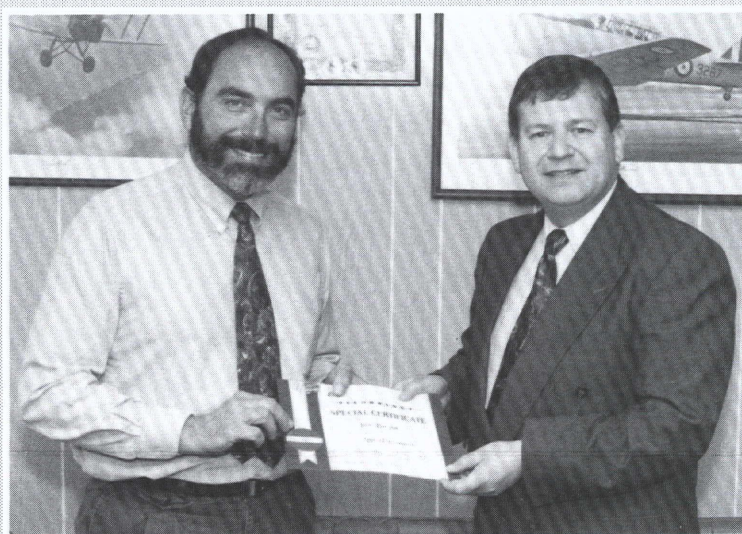
### New scheduling software growing by leaps and bounds

Cries for help from the nursing staff at Kelowna General Hospital (KGH), who were manually scheduling more than 900 staff, sent Dr. Duane Zilm, director of information systems at KGH, looking for help.

His search ended in 1986 when he discovered the Applied Research in Computer Systems (ARCS) lab at BCIT. Together KGH and the ARCS lab developed a prototype scheduling system that applied graphics and symbiotic systems—

man and machine working together to solve problems — to staff scheduling. The resulting system, Environment for Scheduling Personnel (ESP) for DOS, was far ahead of any other scheduling software in existence.

KGH quickly realized the tremendous benefits of the ESP system and it became obvious that the concept had commercial potential. The BCIT Technology Centre began looking for a company to market and support the software.



Technology Centre Director Norman Streat presents an award of appreciation to Aviation Instructor Jack Baryluk for his involvement in a research project conducted by the Technology Centre and DSA Corporation. The project involved running a series of vibration tests on BCIT's Bell 206 helicopter. The tests were carried out to prove a concept for vibration monitoring and analysis that could save operators thousands of dollars. Minute vibrations are the telltale sign of equipment that is beginning to wear and possibly lead to failure. By monitoring the vibrations closely, the operator could be warned early. Jack substituted known worn parts in the helicopter in the place of serviceable ones. Monitoring would then establish baseline measurements for operators to follow.

Mike Gdowski photo



TCT's Al Hildebrand: "They were looking for a big player to take ESP out into the world."

Terry Jorden photo

Al Hildebrand, a small businessman from Kelowna, saw the software at KGH and was impressed. He had no programmers, no money, no business cards, no office, and no resources but in March of 1991, an agreement was drawn up between BCIT, KGH and Al's newly formed company, Total Care Technologies (TCT).

"The Technology Centre was looking for big player to take ESP out into the world and I had to work hard to convince them that I could do the job," said Al.

Since that day in March, TCT

has installed ESP at about 45 health care facilities across Western Canada. The company now employs 23 staff and recently released ESP for Windows version 1.0.

"We plan to move and expand into the US and European market and into a number of different industries such as pulp and paper and other big employers," said Al.

In fact, TCT has already taken great steps in this direction. Two new systems were just installed in Philadelphia and later this month two pilot sites will be installed in Amsterdam.

### Recognizing applied research activity

In late May, Norman Streat, the director of the Technology Centre, was dropping in on year-end faculty and staff meetings and get-togethers for a special reason. He presented selected faculty members with Applied Research and Development pins and certificates to recognize the efforts of those who have worked with the Technology Centre.

Those who received recognition so far include: Raymond Bremner, Keith Errington, Donald Jarvos, Bill Tupper, Phil Cunningham, Anthony Chan,

Dick Dolan, Rob Riches, Donna Conroy, Kris Frankich, Gary Kehoe, Nick Wong, Jim McLean, Ivan Li, Jack Baryluk, Richard Beketa, Brad Crocker, Robert Harrower, David Martins, Jonathan Candy, Joseph Cafazzo, George Jacob and Malvern Phillips.

Norman Streat says there are many more staff and faculty to be recognized. The presentations will continue as more people get involved in applied research with the Technology Centre.

—from Kelly Gervais of the Technology Centre.

### Clean Air Commute day is Wednesday, June 22

Instead of getting into your car and rolling out into a smog-clogged morning traffic jam, why not take part in a nation-wide Clean Air Commute.

And for your efforts, enjoy a hot breakfast courtesy of BCIT and Foresters.

BCIT and other large and small Lower Mainland organizations are encouraging staff to take public transit, car or vanpool, cycle, run or walk to work on Wednesday, June 22.

Each company/organization that accepts the challenge will fax in a list of those employees who participated. On June 25 the Society Promoting Environmental Conservation and BC Hydro will congratulate two companies in each of three categories (less than 25 employees, between 26 and 100 employees and greater than 100 employees) in a news release.

Not only will BCIT be competing with organizations throughout the Lower Mainland, but nationally as well. Similar contests are being held in Toronto and Montreal.

Participating BCIT Burnaby campus staff should go to the Campus Cafe to register between 0630-0900 and enjoy a complimentary breakfast.

For more information contact Terry Milligan at 8713 or Phyllis Johnson at 8529.

### Take mom's advice: avoid dented cans

And you thought Mom was just being fussy when she said not to buy dented cans of food.

But there's a sound reason for that advice, says Vic Martens, program head of BCIT's Food Technology Program.

Particularly if they're at the end of a can, dents may lessen or break the seal, potentially allowing contamination and spoilage.

"All the canning technology doesn't do any good if a can has been dropped and damaged," cautions Vic Martens, who wants to promote better understanding of food technology and its importance to consumers.

First pioneered in 1809 in France, canning is today akin to a science.

For students, learning its many technical aspects is just part of BCIT's two-year food technology program, which has seen recent graduates work for the likes of Lucerne Foods, J.S. McMillan Fisheries and Gray Beverages.

There's quite a difference between a commercial food processing plant and a home kitchen, students find. Vegetables, meat and fish — foods low in acid, which inhibits bacteria and mold — require far higher temperatures and pressures for proper canning, something that may be lacking in home kitchens.

"Canning does give a different taste from freezing, whatever the food," he concedes. "Some people prefer the taste of canned foods."



## Staff News

While much of the world was celebrating the 50th anniversary of the D-Day invasion, President **John Watson** was celebrating a B-Day. A squadron of old buzzards landed on the front lawn of the Administration building June 6 proclaiming to the world that John was celebrating his 50th birthday. It seems that a group of anonymous friends had ordered the birds as a public service announcement.

Civil and Structural Technology's **Marsh Heinekey** was given a strong pat on the back recently for his efforts in organizing the second annual Enhancing Learning in a Technological Environment conference held back in February. Mary Hamm, chairperson of the Education Council, presented Marsh with a certificate of appreciation on May 18 for his work on the conference.

Communications Department Instructor **Rudy Spence** was also recognized for his contributions recently when the Burnaby Arts Council elected him president at the council's annual general meeting May 26. The council is an independent non-profit group with a mandate to promote the arts through the

presentation of a variety of special arts programs and cultural events.

*Mary Hamm, chairperson of the Education Council, presents Marsh Heinekey with a certificate of appreciation on May 18 for his work in planning the ELITE '94 conference in February. Mike Gdowski photo*



### TO YOUR HEALTH

## Plenty of work for those who work on sick hearts

Nothing would make me happier than to find myself out of a job.

Now wait a minute, don't start filling out my pink slip just yet. Give me a chance to explain.

I make my living training those who will then go out into the health care community and perform diagnostic procedures on sick hearts. So you see if there were no more sick hearts I would gladly accept my plight among the unemployed. However, this isn't likely to happen anytime soon.

Why? Considering all the knowledge we possess we still

continue to do all the wrong things. For example, do you gladly pack the kids in the car and head for the golden arches for a delicious meal of burgers and fries?

Let me tell you what you're doing to your children. From the day we are born, we human beings deposit cholesterol in the arteries of the body. As we age this cholesterol goes through changes and eventually calcifies. This is the beginning of the end for people who develop heart disease.

So you see when you encourage little Jimmy or Sally to eat foods high in fat you are speeding up the ticking bomb.

So what is the answer? Develop proper eating habits at an early age. Exercise regularly. Don't smoke. (It causes constriction of the coronary arteries of the heart.) Get regular check-ups.

And if you will all be willing to do so, I will gladly accept that pink slip in a few more years.

— From Gary Clifton, from *Cardiology/Cardiovascular Technology*

## Classified

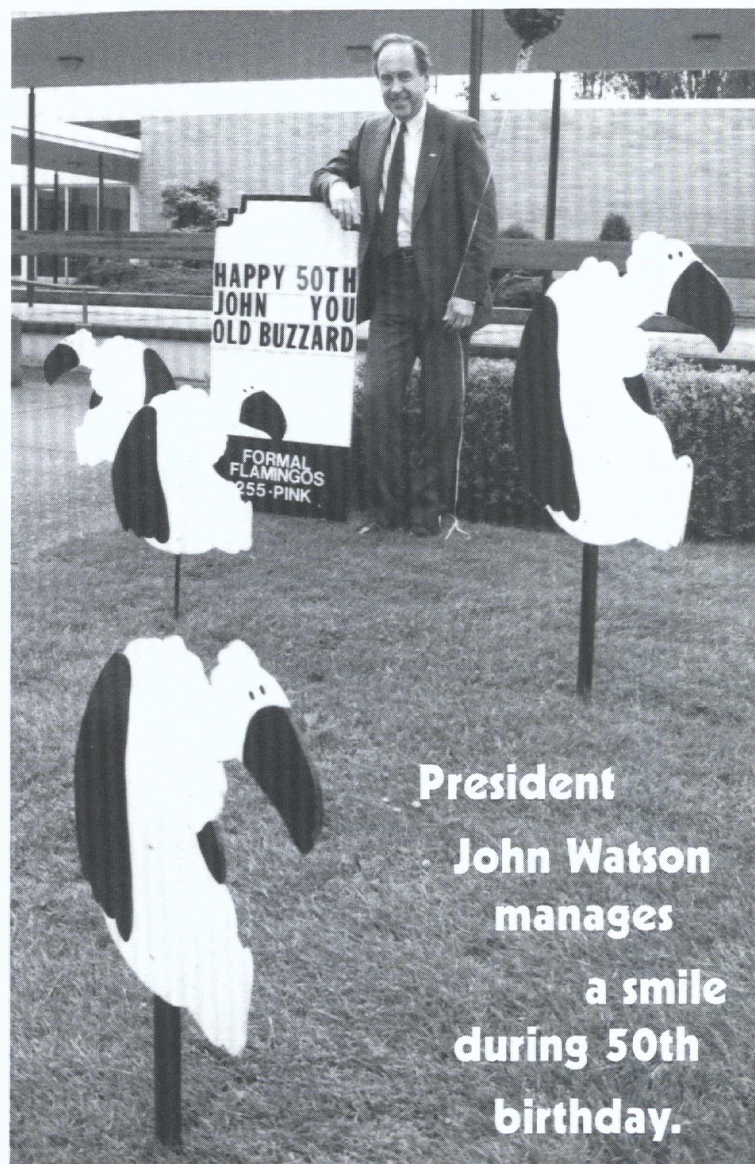
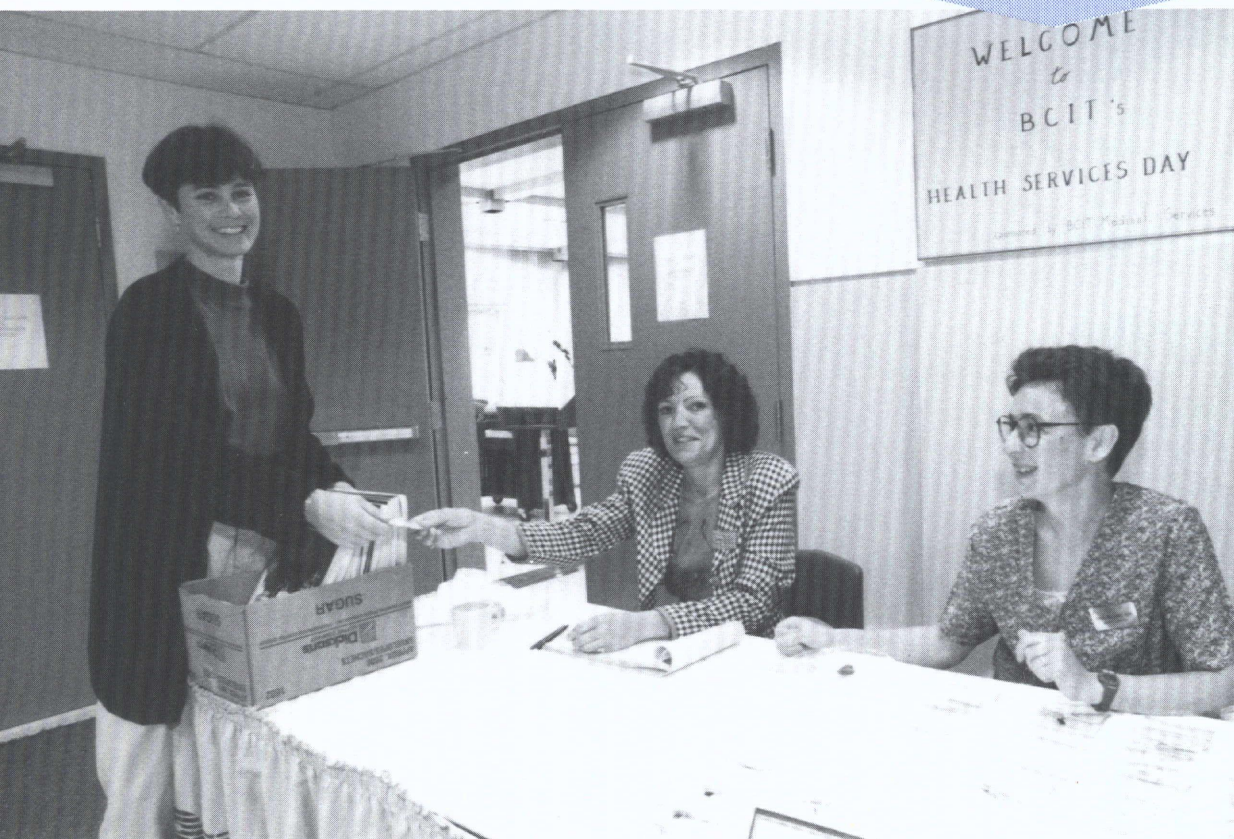
**For Rent:** tent trailer, sleeps six, propane fridge, stove, furnace. Call Tom Friedrich at 6756.

**For Rent:** One-bedroom summer cottage in Penticton for July and August. Two blocks from Okanagan Lake, \$895 per month. Call Ernie at 435-5700.

**For Sale:** 1981 Buick Century Ltd. four-door sedan V8, auto, all factory options, 143,000 kms, air cared and auto instructor maintained, 20 mpg in town and 24 on the highway. \$2,400 obo. Call Mike at 432-8543.

**For sale:** 1986 Honda Elite 250 scooter, white, 12800 km, windshield, just serviced, new back brakes, very well maintained. \$2000 obo. Call Ronaye at 8738.

*Lynda Gravel (center) and Beth Brydon of Medical Services (right) registers Dr. Andrea Scarth of SFU (far left) one of over 60 people who attended Health Services Day on June 10 at BCIT. Conference participants came from various university, college, and institute medical services departments on Vancouver Island and the Lower Mainland to attend the professional development day. Mike Gdowski photo*



**President  
John Watson  
manages  
a smile  
during 50th  
birthday.**

*Terry Jorden photo*

## Travelling? good news ... you're covered

If you are planning a trip outside the province this summer you will be happy to know that your BCIT extended health plan provides emergency medical coverage anywhere in the world.

The plan covers 100 percent of the following expenses incurred in an emergency only, to a maximum of \$250,000 per member or dependent.

1. The cost of a hospital room and charges for services and supplies over and above that covered by your provincial health plan or any other underwriter to a maximum of 90 days.
2. Customary charges of physicians' and surgeons' services and laboratory and x-ray services, when ordered by the attending physician and surgeon in an emergency.
3. Prescription drugs prescribed by the attending physician and surgeon in sufficient quantity to alleviate an acute medical condition.

4. Local ambulance services for the member or dependent requiring immediate transportation to the nearest hospital equipped to provide the required emergency treatment.

5. Air ambulance on a regular scheduled flight for the member or dependent from the original hospital to the nearest hospital equipped to provide the required emergency treatment. Pre-authorization is required from MSA for expenses in excess of \$1,000 per person.
6. In an emergency, services and/or supplies as become necessary outside the province on the same basis as they would be entitled to coverage in this province.

As a member of the extended health plan, you have access to MEDEX, a worldwide emergency assistance service which can provide referrals to physicians, medical transportation, interpreters and other services.

## Update breaks for summer

The next issue of Update during the week of June 27 will be the last of this academic year. In this special edition, we will feature convocation week and the School of Business. Update returns on September 6.

