

alumni ambassador

Sustainability leadership
starts at BCIT



“WE MUST DEMONSTRATE TO OUR COMMUNITY AND INDUSTRY PARTNERS THAT WE AT BCIT TAKE SUSTAINABILITY VERY SERIOUSLY, AND WE’RE WILLING TO TAKE THE NECESSARY STEPS TO GET US TO WHERE WE NEED TO BE TO LEAD SUSTAINABILITY EDUCATION AND PRACTICES IN THE PROVINCE.”

– Don Wright, BCIT President

WHAT DOES SUSTAINABILITY MEAN TO YOU?

Purchasing ‘green’ products from environmentally-certified manufacturers? Ensuring your business reports not just on financial results, but on environmental and social results as well? Persuading your industry’s leaders to increase their environmental standards for future generations of workers and consumers?

Sustainability has been variously defined since its initial popularization a few years ago. At BCIT, sustainability is founded on the values of social equity and recognition of ecological limits to the resources we can use without exceeding our planet’s carrying capacity. BCIT believes Earth’s limited resources should be used conservatively, judiciously, and equitably.

Also, BCIT recognizes the importance and inter-connectedness of the three components of sustainability: the economy, society and the natural environment. BCIT believes that better business decisions are made by looking at this triple bottom line, as shown in BCIT’s commitment to being integral to the economic, social and environmental prosperity of British Columbia.

As BCIT President, Don Wright, explains, “We must demonstrate to our community and industry partners that we at BCIT take sustainability very seriously, and we’re willing to take the necessary steps to get us to where we need to be to lead sustainability education and practices in the province.”

Jennie Moore, director, Sustainable Development and Environmental Stewardship, adds, “BCIT is becoming recognized as a leader in sustainability education and campus operations. Government and industry are responding well to BCIT’s leadership initiatives through financial support. We’ve also seen an increase in invitations to sit on external advisory committees and councils.”

Jennie notes that government and industry are keenly focused on greening the trades in particular – not only when it comes to using eco-friendly products and materials, but also to teach trades students why and how alternative materials are produced and how they benefit the community and our environment.

The internal community at BCIT has taken on the challenge to change the way they consume and has come together to demonstrate grassroots leadership and exceptional teamwork. Alexandre Hebert, manager, Energy and Sustainability, notes, “What has impressed me the most is the commitment and engagement from our faculty and staff. We are relying on talented individuals from all areas within the school to come together for a common purpose: to increase awareness of sustainable activities at the institute and change staff and student consumption behaviours for long term success. This requires a high level of teamwork, which the community has embraced and I’m happy to see change is actually happening now.”

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The BCIT Alumni Association connects and engages alumni in a lifelong relationship with the BCIT community by providing innovative programs and services which support alumni and student success.

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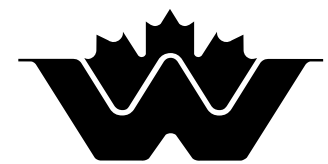

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Trisha Tyrrell from Canadian Direct presents Ed with his new iPad!

Ed said "YES to Savings" with Canadian Direct and won!

Congratulations to Ed Shawchuk, one of three lucky 64GB iPad winners in the 2010 contest from Canadian Direct.

Ed simply signed up for a future quote on his home insurance from Canadian Direct and then entered the contest at canadiandirect.com/bcit.aspx. Ed was ecstatic to win this fancy new gadget from Apple and said "I'm looking forward to using my iPad to get my next quote from CDI, thank you CDI!"

Visit canadiandirect.com/bcit.aspx in May 2011 for our biggest contest announcement since the start of the program!

Since 2002 Canadian Direct has awarded BCIT alumni who asked for a quote on their insurance with:
Three 64GB Apple iPads with Wi-Fi + 3G capability • Sony Bravia Home Theatre system • 46" Sony Bravia HD LCD TV • An Apple Macbook Pro • \$2000 in gas cards • A home computer • 27" Sony Wega TV

CONTEST

Think you know how to live sustainably? Take the quiz for your chance to WIN one of these great prizes:

- > \$1,000 gift certificate to Mountain Equipment Co-op
- > \$500 gift certificate to Bicycle Sports Pacific
- > An Amazon Kindle Wireless Reading Device
- And more!

Visit bcit.ca/alumni today to enter!

CONTEST CLOSES FEBRUARY 28, 2011

SPECIAL THANKS TO THE FOLLOWING
FOR THEIR PRIZE DONATIONS:

Mountain Equipment Co-op
mec.ca

Bicycle Sports Pacific
bspikes.com

Kalpna Solanki of Martin's
Marvelous Naturals
martinsmarvelous.com

Darrell Scorch and his sister Amber
of Ecoware Biodegradables
ecowareproducts.com



Continued from page 1

Sustainability leadership starts at BCIT

Alexandre adds, "The effects of climate change have become a major societal concern. Demand for energy in the world is expected to grow by almost 50% over the next 25 years. In BC, demand for electricity is expected to grow between 20 and 40% over the next 20 years. These are compelling reasons for action to be taken to reduce our ecological footprint and BCIT is definitely responding to this call!"

"At BCIT, the biggest portion of our carbon footprint (under the provincial legislated reporting scheme) comes from the energy needed to operate our campus buildings. In my experience, there is a natural tendency to put all of the energy and greenhouse gas management burden on the shoulders of groups such as Facilities Management. Many BCIT community members have that passion and expertise to help manage energy and greenhouse gas emissions and the institute has created a unique model to leverage and empower these talented individuals. To give only a few examples, we now have our finance experts setting up a sustainability revolving fund that will provide the much needed capital to accelerate transformation towards sustainability. Our marketing

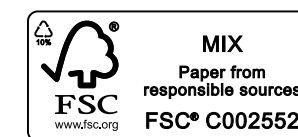
experts are organizing campaigns that change the way we use energy in our workspace. Our education experts are finding more ways to incorporate the learning from our operations team by building BCIT's living lab of sustainability in the BCIT curriculum, and our student experts-in-training in Operations Management are helping us change the way we operate to make it easier to track our greenhouse gas emissions. This is interdisciplinary teamwork at its best!"

BCIT believes immediate initial steps that make good business sense are: minimizing waste; conserving resources by maximizing efficiencies and matching supply to true needs; meeting or exceeding regulations to minimize any soil, air, and water pollution due to our activities; and whenever possible, enhancing on-site biodiversity through preservation and restoration. BCIT believes these first steps can be achieved with the use of technology, good management systems, policies and regulation, and behavioural change.

Are you taking steps towards sustainable living? Enter the **contest** for your chance to **win big!** Visit bcit.ca/alumni today to enter!

ECO AUDIT

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tons	trees	BTUs	lbs of CO2 eqv	gallons	pounds

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BCIT Alumni Ambassador
SE40, Room 230
3700 Willingdon Avenue
Burnaby, British Columbia
Canada V5G 3H2

Tel: 604.432.8847
Fax: 604.431.8911
Toll Free: 1.877.432.8847

Email: alumni@bcit.ca
Website: bcit.ca/alumni

PUBLISHER,
ACTING EXECUTIVE DIRECTOR,
ALUMNI RELATIONS & COMMUNITY GIVING,
BCIT ALUMNI ASSOCIATION
Sherri Magson

EDITORS
Carly Wethersett, *Marketing Strategist*,
BCIT Marketing and Communications
Tasleem Bhanjee, *Coordinator, Marketing and Communications*, BCIT Foundation

COORDINATOR OF ALUMNI PROGRAMS AND MARKETING
Kristina Urban

ALUMNI RELATIONS AND COMMUNITY GIVING ASSISTANT
Jack Bramhill

ALUMNI E-COMMUNICATIONS ASSISTANT
Sheila Lundell

DESIGN
Alisha Moolla, *BCIT Marketing and Communications*

CONTRIBUTORS
Mark Angelo
Michelle Beauregard
Andrea Bellamy
Pauline Buck
Marie-Claire Concannon
Nicole Fortin
Alexandre Hebert
Trevor Jurgens
Annalea Krebs
John McManus
Lisa McQuaig
Jennie Moore
John McDonald
Chad Myers
Kevin O'Brien
Jenny Rustemeyer

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President's Message

On behalf of the board and staff of BCIT's alumni program I'm pleased to present the inaugural "green" issue of our publication.

I trust you will enjoy reading the articles and be inspired by the leadership role being taken by our alma mater and fellow graduates in sustainability initiatives throughout the province, many with global impact.

It has been a year of transition for the BCIT Alumni Association. In May I took over as president and would like to take this opportunity to acknowledge the leadership of Adam Pion, who completed his four years in this role. During his tenure, the Association grew tremendously in both endeavour and profile; I look forward to the challenge of continuing to build on his success. We wished Ed Shawchuk a sad farewell as he completed his term as treasurer and welcomed Gabby Aquino to the role.

We also said goodbye to executive director of the Alumni Association, BCIT's vice president of Development, Laurie Clarke. We wish Laurie well in her new role as CEO of the BC Women's Hospital and Health Centre Foundation. I'm pleased to announce that Laurie was inducted into the Alumni Association as an honorary member in recognition of her dedicated service for the past 10 years.

2011 will bring with it some great new opportunities for our Association. You may have seen posted on our website our new 5-Year Strategic Plan which will really start to take off this year with active committee involvement. In February we will welcome the new vice president, Alumni and Development and CEO of the BCIT Foundation, Pommasha Noel-Bentley.

So here's to a productive and successful new year. Keep in touch!

Tyler Davis

PRESIDENT
BCIT ALUMNI ASSOCIATION

AGM Notice

Join us for our Annual General Meeting on Thursday, May 26 at BCIT's Downtown campus.

555 Seymour Street, Vancouver
4:30pm–7:00pm

Reception with no-host bar and complimentary hors-d'oeuvres. To register visit bcit.ca/alumni/news.

CHECK OUT OUR NEW
5-YEAR STRATEGIC
PLAN FOR THE BCIT
ALUMNI ASSOCIATION

VISIT BCIT.CA/ALUMNI
AND WEIGH IN.

Welcome new board members

THE FOLLOWING ALUMNI JOINED THE BCIT ALUMNI ASSOCIATION BOARD OF DIRECTORS IN 2010:



STEVE BAINS
ASCT, Building Technology '98, BTech Construction Management '06
Construction Manager and Senior Project Manager, JRS Engineering Building Envelope Consultants



JULIA CAMERON
Marketing Management '08, BA (Psychology) UBC
Senior Account Executive, Edelman Vancouver



Appointed Director
CIARA HAMAGISHI
Vice President, Public Relations and Marketing, BCIT Student Association

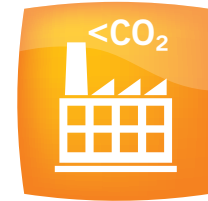
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Changing how BCIT operates

BCIT ADOPTING NEW POLICIES TO PROMOTE SUSTAINABLE OPERATIONS



ECOLOGICALLY
RESTORED



GREEN HOUSE
GAS NEUTRAL



NET ENERGY
PRODUCER



WATER
BALANCED



ZERO WASTE

BCIT IS IN THE PROCESS OF ADOPTING TWO NEW POLICIES CENTRED ON SUSTAINABILITY LEADERSHIP IN THE POST-SECONDARY SECTOR AND IN THE LOCAL COMMUNITY.

The Sustainability policy

The Sustainability Policy states seven aspirations:

- > **GREENHOUSE GAS NEUTRAL** – Eliminate or absorb all carbon-based emissions on campus from fossil fuel combustion and decomposing vegetables and waste from campus activities.
- > **NET ENERGY PRODUCER** – Produce carbon-free, on-site power that meets or exceeds needs for campus facilities operations and staff, faculty and student use. Manage energy and materials demand efficiently.
- > **ZERO WASTE** – Eliminate or reduce to the maximum possible all waste associated with campus activities and affiliated facilities and operations. End the use of toxic and persistent pollutants not readily assimilated into the environment on-campus or in the atmosphere, downstream, or in groundwater.
- > **WATER CONSERVATION AND LOCAL WATERSHED PROTECTION** – Eliminate storm sewer discharge and reduce or eliminate potable water purchases through rainwater harvesting on-site, and maximize ground water recharge through integrated stormwater management.

- > **RESTORATION OF CAMPUS ECOSYSTEMS AND NATIVE SPECIES** – Re-establish full functioning of original ecosystem capacity equivalent to pre-development levels, including number and vitality of habitat and plant and animal species, while preserving student and personnel safety. Provide for species and habitat preservation and restoration in bio-geoclimatic zones off-campus affected by campus-related activities.
- > **EQUITY AND SOCIAL RESPONSIBILITY** – Achieve ethical treatment of and behaviour by students and personnel when making consumer or lifestyle choices. Offer learning opportunities about full cost accounting and lifecycle assessment in purchasing, construction, and maintenance and operations (including academic/extracurricular activities and healthy work environments).
- > **ACCESSIBILITY AND SAFETY FOR ALL STUDENTS AND FACULTY** – Provide students and personnel opportunities to engage in learning activities and campus greening initiatives that accommodate students' and personnel's diverse needs and beliefs.

The Energy and Greenhouse Gas policy

BCIT'S GREENHOUSE GAS (GHG) EMISSIONS and energy vision is to demonstrate the wisest energy and GHG management in BC on our campuses. Student, staff, and faculty groups will design, share and implement creative and innovative ways to eliminate waste and use energy efficiently. We will only use the energy we really need, in the most efficient way possible, to deliver excellent services. Campus visitors will see:

- > no evidence of any energy waste;
- > unique innovations for efficient energy use;
- > the most efficient technologies used to create our light, heat, and ventilation, and to power our computers and equipment;
- > on-site production of clean and renewable energy. Our business processes will be aligned to consider energy use and GHG emissions and facilitate wise

use and conservation in areas including purchasing, timetabling, etc. BCIT will also reduce more minimal sources of GHG emissions by changing paper, vehicle fleet, and air-conditioning coolant (fugitive emissions) use. Consequently, BCIT will have significant savings available for exciting, innovative projects, and reduce our ecological footprint and our contribution to climate change. Finally, BCIT will be viewed as industry's resource when it comes to training to enable them to achieve energy saving and reduce carbon emissions. Visit bcit.ca/sustainability for more information on our sustainability practices.

Watch the videos on sustainability practices!
Visit youtube.com/bcit, search 'sustainability'.

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BCIT named one of Canada's top 50 greenest employers

THE GLOBE AND MAIL HAS NAMED BCIT one of Canada's top 50 greenest employers in their annual "Canada's Greenest Employers" competition, which recognizes organizations that have created a culture of environmental awareness.

BCIT's food composting program is listed as one of the reasons the institute was chosen for the honour. There are more than 170,000 red wiggler worms at work here! Check out the BCIT worm video by visiting bcit.ca, search 'worm composting'. The composting program was first established at the Burnaby campus in 1998.

Compass Group, BCIT's largest contractor (providing food and custodial services at all campuses, plus facility management services at the satellite campuses) was also named in the list of Canada's top 50 greenest employers. In 2008, BCIT was named Canada's Greenest Campus by Achieving Business Excellence magazine.

BCIT MEASURES ECOLOGICAL FOOTPRINT

Undertaken as an applied research initiative in the School of Construction and the Environment and in collaboration with Facilities Management, the institute recently completed a comprehensive measurement of its ecological footprint – the extensive review is one of the first undertaken by an academic institution in Canada and engaged employees from across the organization. Read the report at bcit.ca/sustainability/ecofootprint.

SUSTAINABILITY COMMITTEE AND GREEN TEAM KEEP PROJECTS ON TRACK

Employees have their own 50 member volunteer "Green Team" comprised of employees from all departments and schools who work to generate awareness and encourage their fellow employees to become involved in various sustainability initiatives throughout the year. The Institute has also created a Sustainability Committee chaired by the VP

Education and VP Finance with representation from across the Institute, including students and alumni. The Sustainability Committee comprises several working groups established to help move initiatives forward include Awareness and Behaviour Change, Funding (includes the development of a self-funded revolving fund to support BCIT's sustainability initiatives), and Inventory, Monitoring and Reporting.

TERASEN GAS FUNDS NEW ENERGY SPECIALIST POSITION

Andrea Linsky is BCIT's new energy specialist. Funded by Terasen Gas, she is situated within the School of Construction and the Environment.

The energy specialist represents a new breed of energy professional that is part of BC's emerging green economy. Terasen Gas has launched an expanded energy management program that complements BC Hydro's Power Smart Partnership program. In developing this new initiative, Terasen Gas has determined that all energy specialists must be graduates of BCIT's Sustainable Energy Management Associate Certificate (SEMAC).

REGISTRAR COMMUNICATIONS NOW PAPERLESS

In an effort to support BCIT's sustainability initiatives and to provide students with more timely, accessible communications, several departments within the Registrar's Office have made the switch to online communication.

The Registrar's Office processes approximately 80,000 letters for 26,000 students per year, and maintains 400 active templates (Word documents) to do so.

Producing paper documents in these quantities is time consuming and labour intensive—not to mention expensive and wasteful. As a result of the shift to online communications, BCIT will save approximately \$60,000 per year in postage and paper costs. The move will also help to reduce BCIT's carbon footprint.

Official letters that BCIT previously sent out by mail will now be available for viewing and printing via myBCIT, a free email service provided to all students and staff. Aside from an initial mailed hard copy letter when students first apply, all communication will from then on be online.



CITIES ALIVE CONFERENCE

BCIT was the proud presenting partner of the CitiesAlive 2010 conference, held November 30 to December 3, 2010. The 8th annual green roof and living wall conference was held at the new Vancouver Convention Centre, which boasts its own six acre green roof and living walls, the largest in Canada.

BC Government mandates carbon neutrality

THE PROVINCIAL GOVERNMENT realizes that doing nothing is not an option and has taken steps to address the climate change issue in the province.

In November 2007, the Greenhouse Gas Reduction Targets Act made BC the first jurisdiction in North America to make a legally binding commitment to carbon neutral operations. In this Act, the BC government established provincial targets to reduce BC's emissions by 33% in 2020 and by 80% in 2050. These reductions are based on 2007 emission levels.

In addition to that, the Carbon Neutral Government Regulation was passed in December 2008. It states that the public sector will become carbon neutral by 2010. In order to measure and report on these goals, BCIT has implemented SMARTTool, a web-based estimation and reporting tool based on methodology of The Climate Registry (TCR) General Reporting Protocol. To quantify an organization's emissions, data is entered into the SMARTTool system (consumption of fossil fuels, electricity, steam, paper etc. in specified emission sources), to calculate greenhouse gas (GHG) emissions.

The carbon neutral requirement means changes in decision making and operations. Organizations can no longer think of the financial bottom line alone, they now also have to give consideration to reducing GHG emissions in their decision making. While public sector emissions will still occur, purchased offsets will reduce BC's overall GHG emissions. An organization can purchase enough offsets to be declared "carbon neutral." The BC public sector purchases offsets from the Pacific Carbon Trust, which invests in made-in-BC offset projects that reduce BC's total emissions.



DUST EXTRACTION PROJECT HELPS TRADES STUDENTS BREATHE EASIER

During the summer of 2010, BCIT replaced a dated Dust Extraction System (DES) in its Joinery and Carpentry shops. The old system consisted of six constant-volume units, which were replaced with a single variably controlled unit. The new system is anticipated to use 84% less electricity generating 126,000 kWh/yr in avoided electricity use per year. The system will also improve human health and safety standards, meeting the newly stipulated BC Worker Compensation Board's health and safety requirements, and anticipated lower decibels will reduce noise pollution on campus. In an era of limited capital, the project was particularly successful in "piggy-backing" an energy efficiency measure as part of a specific facility investment project.

LIGHT SAVERS INITIATIVE AIMS TO WIPE OUT ENERGY WASTE ON BCIT CAMPUSES

Did you know that BCIT spends approximately \$600,000 annually on lighting alone? That's 30% of our total electricity bill. Energy, including lighting, is one of the major contributing factors to energy use and greenhouse gas emissions on BCIT's campuses.

Staff and faculty were asked to strike back and become a Light Saver. Together they will strive to stop energy waste on BCIT's campuses by ensuring lights are always turned off when not needed.

PRINT SMART CAMPUS CAMPAIGN

It's an online world now, and BCIT staff and faculty were reminded that there are many alternatives to printing course materials and meeting notes through the Print Smart Campaign in 2009/10. The fedora-wearing force was out to raise awareness, recruit agents, and radically change the paper consumption behaviour of BCIT faculty and staff. Why? Because BCIT used 33.8 million sheets of paper last year alone. And while much of this printing, copying and paper use is just part of doing their jobs, there are ways to easily reduce this number without feeling a thing.

Taking inspiration from the 60s hit TV show Get Smart, BCIT's Get Print Smart campaign aimed to reduce BCIT's paper consumption by 20% this year, saving the equivalent of 811 trees and 16.9 years of car exhaust (that's one car, running for 16.9 years straight!), not to mention the paper costs, printing and energy savings to the institute.

For more information on the Print Smart Campaign, visit bcit.ca/getprintsmart.

SO JUST WHAT DOES GREENHOUSE GAS CONSIST OF?

There are six gases that fall within the scope of having Global Warming Potential (GWP):

Carbon Dioxide – generated from burning coal, oil and natural gas that generate electricity, heat our homes, power factories and run our cars.

Methane – methane is released into the air by raising livestock, coal mining, drilling for oil and natural gas, and garbage sitting in landfills.

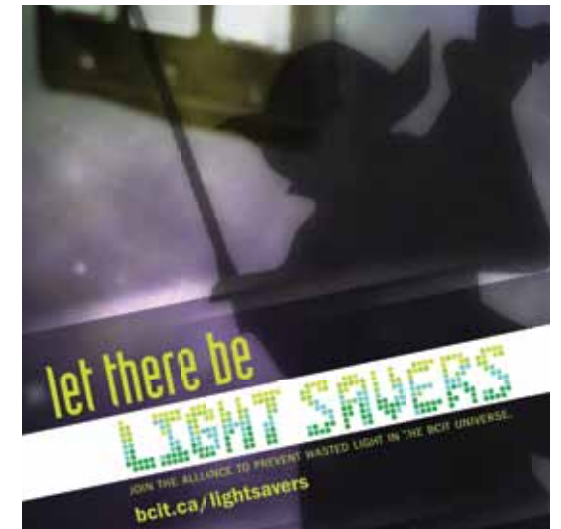
Nitrous Oxide – gas generated from nitrogen based fertilizers, sewage treatment plants and automobile exhaust.

Sulfur Hexafluoride – derived from high voltage transmission lines

Perfluorocarbon – industrial processes e.g. aluminum smelters

Hydrofluorocarbons – HVAC systems, air conditioning units, commercial refrigeration, fleet vehicles with air conditioning.

To learn more about how BCIT is reducing greenhouse gas emissions, visit bcit.ca/sustainability.



Alumni changing the world around them

The following BCIT grads have demonstrated courage, commitment, and passion by choosing the green path. They responded to our call for submissions with such enthusiasm, but we had space for only a few in this print edition. Please visit our website, bcit.ca/alumni, to learn more about these alumni and their stories:

FOR THE COMMUNITY

OLYMPIC SKIER FOCUSES ON GREEN PROJECTS

Two-time Olympian Freestyle Mogul skier **Ryan Johnson, DipIT '08**, has been involved in several green projects including as project manager for the Whistler Olympic Athletes Village.

SHIFTING PUBLIC KNOWLEDGE ABOUT FOOD SOURCES

Trevor van Hemert, DipIT '10, is making a difference as a web designer and communications officer for the UBC Faculty of Land and Food systems.

SETTING STANDARDS FOR SENIORS ASSISTED LIVING RESIDENCES

Frank Rizzardo, DipIT '73, and his company Emcon Services led the green construction of the Florentine, a seniors assisted living residence in Merritt.

SAVE SHARKS. GET IN THE WAKE.

Lindsay O'Donnell, DipIT '06, BBA '11, and friends started wakeproject.net to raise awareness of the negative effect of human consumption habits on the shark and tuna populations.

REUSABLE WATER BOTTLES A HIT WITH NEW SFU STUDENTS

Candy Ho, ACert '07, eliminated the need to purchase multiple flats of plastic bottled water for new students at the Surrey campus last fall.

STAR OWL NURTURES BROWNIE CONTRIBUTION TO ENVIRONMENT

The 28th Lakeview Brownies in Calgary, Alberta are going environmental under the guidance of their Star Owl, **Amanda Saigeon, DipIT '06**.

AT HOME

GOING GREEN AT HOME

Retired graduate **Victor Lipp, DipIT '66**, has made great strides in making his home more environmentally sustainable.

Alumni changing the world

TSI LEADING THE WAY IN TRANSPORTATION MANAGEMENT



“IT’S NICE TO WORK ON A PROJECT YOU BELIEVE IN AND HAVE THE COMPANY’S SUPPORT IN DOING SO.” – Roy Kristensen, Assistant Engineering Manager, TSI Terminal Systems Inc.

ESTABLISHED IN 1907, TSI Terminal Systems Inc. is the largest container terminal in Canada, handling approximately 70% of the containerized cargo that moves through Port Metro Vancouver. TSI is the largest employer in the port, operating out of Deltaport at Roberts Bank and Vanterm in the Burrard Inlet. TSI hires many BCIT grads, including Human Resources diploma grad Nicole Fortin, who submitted TSI’s story as she was impressed with the company’s environmental initiatives.

Deltaport is the first container terminal in North America to use alternating current regenerative drives on its electrical cranes. When a crane lifts a container, it takes power from the grid but when it lowers the container, it then becomes a generator and puts power back into the grid.

Regular testing and audits are performed to monitor water quality throughout the year. Catch basins are on site to collect water that may be mixed with petroleum products. Oily water separators are used to separate and dispose of these products appropriately.

Taking steps to reduce fuel emissions in all their operations helps minimize pollution that occurs from vehicle and terminal operational activity. Long before government regulations came into effect, TSI has had a history of using low sulphur diesel, and now ultra low sulphur diesel, and fuel additives to create cleaner burning engines.

TSI’s engineers worked with Railpower, a local company, to develop hybrid power engines for their rubber tire gantry cranes (RTGs). These hybrid engines run off of diesel and electric power which uses less fuel and requires less powerful engines. The fuel savings is estimated at 60–80% with an estimated emission reduction of 75–90% depending on configuration and usage.

Warning bell systems on moving equipment are mandatory for the safety of all persons on the terminal. TSI, in cooperation with local residents, has been very successful in changing the audible alarms on equipment to reduce noise and lessen the impact on their neighbours.

Terminal lighting is also an important requirement for aircraft warning and terminal safety. TSI has installed automatic timers on the dock gantry cranes to turn the lights off when the crane booms are in the park position. They have also been working with BC Hydro to direct lights for more effective use.

Recycling of containers and waste, re-using and treating of non-hazardous waste and communicating to staff and suppliers how to dispose of materials in an environmentally safe way is part of TSI’s daily business. Recently, TSI established a paper-recycling program on site, and is working on a litter reduction campaign on and around the container terminal site. They employ local contractors to conduct a clean-up of the terminal shoreline and maintain the terminal site landscaping on a regular basis throughout the year.

“In the near future, I predict full electrification of all cranes and limited use for diesel fuel in crane operation.” says Roy Kristensen, Assistant Engineering Manager. “We’ve been testing some electric concept vehicles with some success; new technologies are exciting and we’re happy to be a part of the advancements.” To learn more about TSI’s many sustainable initiatives, visit tsi.bc.ca.

Less wood in landfills good for BC: Using fungi to clean wood waste



CHEMICAL SCIENCE GRAD LISA MCCUAIG is doing her part to help clean the environment, and she’s doing it with a little help from Mother Nature. Lisa and her team at FPInnovations are conducting research on carbon-based preservatives, which are wood preservatives that do not contain copper or other metals. These types of preservatives are relatively new and are used in above-ground applications such as fences, siding, decks, and building construction. The fact that the preservatives do not contain metal allows for them to take a biological approach to remediating the wood.

Specially selected fungi, that can tolerate carbon-based preservatives, are introduced to the treated wood and allowed to grow. The fungi utilizes the wood as a food source and produces enzymes that will break down the chemicals in the wood preservative, essentially cleaning the wood. The bioremediation process allows the team to recycle an old fence or deck, clean the wood using fungi, and turn it into a product to be used in another application such as compost chips or as a fuel.

During the bioremediation process, the amount of carbon-based preservative in the wood will be analyzed using Liquid Chromatography Mass Spectrometry (LC/MS). This tracks how well the fungi are able to break down and remove the chemicals in the wood.

Currently, most discarded treated lumber ends up in landfills, as it cannot be recycled due to chemicals remaining inside the wood. Treated wood in an unlined landfill can potentially leach fungicides into the soil and cause adverse effects on the environment. A potential resource is also being wasted as wood continues to pile up in landfills. The bioremediation process can potentially reduce the amount of wood waste sent to landfills and enhance other industries by creating a new product.

Lisa is excited about the possibilities of bioremediation and its applications. “The ability to recycle treated wood will enhance the perception of wood as an environmentally-friendly and sustainable building material, especially when compared to non-renewable materials that require high levels of energy input.” Wood is a preferred construction media for many builders as it requires less energy to produce and has much less impact on global warming compared to concrete and steel. For more information on FPInnovations’ research and the BC forest sector, visit fpinnovations.ca.

GOING GREEN FOR THE SAVVY SAVER



They’re on a mission to take green mainstream by making it easy and fun for people to discover the best green stuff in their city. BCIT grad Annalea Krebs and her team at **ethicalDeal.com** have launched the first daily coupon service in

North America that focuses on green services and products.

“My dream is to introduce people to healthier and more eco-friendly alternatives and ensure those options are accessible to the mainstream,” says Annalea. “It’s great to have community support behind us, the interest is there and we’re here to make going green easy and fun.” ethicalDeal evolved from **theChange.com**, Annalea’s first online venture into social entrepreneurship. Both are social commerce-based sites, connecting consumers to businesses through social networks. For example, ethicalDeal’s first promotion was for 50% off raw vegan organic food from Gorilla Food. Over 400 people bought this ethicalDeal in only 24 hours!

A social entrepreneur, Annalea is a passionate individual whose vision and energy to build a brighter, more sustainable future inspires those around her. She believes that business can be a powerful force for change, and loves companies that are built to make the world better. For Annalea, ethicalDeal is an opportunity to introduce more people to sustainable businesses, products and services.

Prior to founding ethicalDeal, Annalea managed the sales, marketing, and community relations for various social enterprises and green businesses including **theChange.com**, Values-Based Business Network, and

the Canadian Social Entrepreneurship Foundation. Annalea holds a degree in Commerce from Royal Roads University, a Diploma of Technology from BCIT and is a graduate of Leadership Vancouver. She was also the recipient of the 2007 BCIT Alumni Association Outstanding Student Leadership Award.

Sign up to ethicalDeal.com for daily deals from local green companies.

GRAD CLEANS UP WITH THE CLEAN BIN PROJECT



Geographic Information Systems grad Jenny Rustemeyer and her partner Grant started a head to head competition to see who could create the least amount of garbage in one year. And they were very competitive in their endeavour – each used

only a small bathroom waste bin for an entire 12 months! They made a documentary chronicling the project called *The Clean Bin Project*, which won the 2010 MOBI Award for excellence in journalism and media from the Recycling Council of BC (RCBC). This past summer, they took leaves from their respective jobs and cycled across Canada in a self-contained and self-organized tour, screening their film and talking about waste reduction in 30 communities along the way. Grant and Jenny are partnering with local municipalities and environmental organizations to promote waste reduction. Their goal is to show that the path to sustainability can be fun and relatively easy if you take it one step at a time. Check out their blog at cleanbinproject.com and watch their documentary at cleanbinmovie.com.

Alumni changing the world around them

IN THE WORKPLACE

VANCITY GREEN GOALS COINCIDE WITH GRAD'S CORE BELIEFS

When **Dan Paris, DipIT '89**, joined Vancity Enterprises as a real estate developer, he gained the opportunity to apply his extensive knowledge in environmental sustainability.

GREENHOUSE GAS CALCULATOR HELPS TO REDUCE CARBON EMISSIONS

In 2005, **Mike Au, DipIT '89**, manager in supply chain services for Mountain Equipment Co-op, co-sponsored a BCIT fourth-term project to research best practice in environmentally responsible logistics and green transportation.

NEW PAINT SYSTEM REDUCES COMPANY'S ENERGY CONSUMPTION

Mike Giannelli's (DipIT '05) family's auto body repair business has changed its paint product to a waterborne basecoat that lowers the amount of volatile organic compounds released into the environment.

REDUCING CARBON FOOTPRINTS A PRIORITY AT ON SIDE RESTORATION SERVICES LTD.

On Side takes its sustainability just as seriously as their commitment to the restoration of a home or business according to quality control manager **Walter Wisniewski, DipIT '72**.

PRODUCTS

MARTIN'S MARVELOUS NATURALS SOURCES LOCAL ORGANIC PRODUCTS

More than 95 per cent of **Kalpna Solanki's (DipIT '89)** ingredients are sourced locally.

NEWSPAPERS GALORE IN DIGITAL FORMAT

Jason Meyer, DipIT '03, is working for the largest company in the world that makes local and international newspapers available on computers, tablets, smart phones, and e-readers.

ECOWARE BIODEGRADABLES OFFER ALTERNATIVE TO PLASTIC

Brides have raved about the stylish, economic and eco-friendly value of Ecoware's compostable birch wood cutlery using FSC certified wood. The products, conceptualized by venturepreneur (**'01**) **Darrell Scora** and his sister Amber, have taken off in the food industry as a unique alternative to plastic.

Read the full stories at bcit.ca/alumni.

BCIT GRADS DESIGN AUTOMATED ROOF FOR NEW BC PLACE

SMART AUTOMATION TECHNOLOGY is going mainstream, and one local company is making its mark on the scene. New Space Technologies, a small firm based in Vancouver, specializes in smart automation systems of all sizes and applications, from residential lighting and security to commercial energy management. They design, install, program, and service cutting-edge automation systems and recently won a Custom Electronic Design and Installation Association (CEDIA) award for “Best Integrated Home”.

The true benefit of automation is not simply convenience and the cool-factor. Automation allows for maximum energy efficiency. According to Mark Scott at New Space, “historically, each building subsystem (HVAC, lighting, etc.) was managed directly by its own independent control

processor. Next-generation automation involves the implementation of a single, intuitive master control system to oversee the operation and efficiency of each subsystem, allowing the system as a whole to achieve efficiencies and ease of use that would have not been otherwise possible.”

Chad Myers, one of New Space’s project managers and system designers, graduated from BCIT’s Telecommunications program in 1992 and received a Financial Management diploma in 2000. Chad and crew are very excited about their latest project – New Space was selected to design and commission the automation system for the new open-sky roof on BC Place stadium this year.

To learn more about New Space and their products, visit newspace.ca.



ABC Recycling is the perfect fundraising partner for The Kidney Foundation



David Yochlowitz, CEO of ABC Recycling and Pia Schindler, Director of Development for The Kidney Foundation of Canada, BC Branch meet at the recycling yard to make more plans for the Kidney Metals Program.

RECYCLE FOR LIFE IS A unique fundraising and awareness program that enables everyone to support the work of The Kidney Foundation in the way that works best for them.

Recycling has long been the cornerstone of The Kidney Foundation of Canada. First there was organ donation, the ultimate recycling program that saves lives and reduces the kidney transplant waiting

list. Then came The Kidney Car Program, the recycling campaign where anyone can have their old and unwanted vehicles picked up for free. They receive a tax receipt and the Foundation receives revenue from the recycled cars. But it wasn’t until BCIT grad David Yochlowitz, president of ABC Recycling, brought his team on board that Recycle for Life really sprung into action.

David first recycled for life 10 years ago. He donated one of his kidneys to his wife Verna, thus unhooking her from thrice weekly dependence on dialysis treatments, and enabling them to dream about starting a family – a dream that came true twice for them.

In 2009, David again recycled for life. He and ABC Recycling were excited to come on board as the Kidney Foundation’s new Kidney Car partner. Thanks to ABC Recycling, the Foundation has been able to expand the Kidney Car Program across British Columbia through ABC’s six locations and business affiliates.

David was happy to support the Foundation through Kidney Car. But it didn’t take him long to realize that The Kidney Foundation could do much more than just recycle cars. He suggested a new program whereby people could donate all their scrap metal to the Foundation too: household scrap like old barbecues, broken lawn mowers, even the kitchen sink! And businesses could donate any kind of ferrous and non-ferrous scrap metals they accumulate during the course of their day. Kidney Metals was born.

Since March 2010, ABC Recycling has been promoting the Kidney Metals program to their corporate clients. Businesses such as construction companies and auto repair shops are now donating a bin or a container to The Kidney Foundation for a tax receipt.

The Kidney Foundation also recycles through a program called Kidney Garage Sales, turning someone’s unwanted “junk” into someone else’s treasure, with proceeds being donated to The Kidney Foundation.

These recycling programs give new life not just to cars, metal, and stuff. They also give new life to people living with kidney disease. The Kidney Foundation is deeply grateful to ABC Recycling for their support. **All Ambassador readers are invited to consider becoming an organ donor by registering their wishes today at www.transplant.bc.ca.**

Students changing the world around them



BCIT’S CHAPTER OF STUDENTS IN FREE ENTERPRISE (SIFE-BCIT) have undertaken several green initiatives during their busy time as students at BCIT. This includes the Spring Living Fair event, held every April, which supports small sustainable businesses and artists and connects them with

eco-conscious consumers. The Spring Living Fair is a community event dedicated to celebrating and increasing awareness of local, ethical, and sustainable business. Last year the event was held at the Roundhouse community Center in Yaletown, and gained recognition province-wide. The Spring Living Fair is SIFE-BCIT’s longest running project, currently entering its fourth year. Visit sifebcit.com for details on this year’s upcoming event, taking place April 2, 2011 once again at the Roundhouse Community Centre.

They also are establishing a BCIT chapter of goBEYOND, a youth-led organization that is located in BC. The purpose of goBEYOND is to educate and engage students about climate change. goBEYOND has contacts in different schools in BC and Ontario, and are expanding internationally in places such as Africa. Started by the BC Campus Climate Network, it has connections with over 20 colleges and universities and is involved with over 100,000 students and faculty. It is supported by organizations such as BC Hydro, the Vancouver Foundation, the BC Government Employees Union, and the UBC Sustainability Office.

With all of these excellent initiatives to build awareness and influence student behavioural change, SIFE is planning to enter into the Advancing Canadian Entrepreneurship Canada Go Green Challenge. **If you or your organization are interested in supporting SIFE-BCIT or one of our on-campus student groups’ green initiatives, contact alumni@bcit.ca.**

Sustainability focus for mining industry in BC



OVER THE LAST COUPLE OF DECADES, the mining industry in BC has undergone dramatic changes in the way it approaches sustainability, environmental obligations and relationships with their communities-of-interest. Today, the sector is the safest heavy industry in the province, a leading employer and contractor of First Nations and through BC’s internationally recognized Health, Safety and Reclamation Code for Mining, is continuously improving environmental management and reclamation practices.

But the sector cannot stand still. This is why the Mining Association of BC (MABC) is expanding its efforts to encourage responsible mining by adopting and implementing the Towards Sustainable Mining (TSM) initiative. Developed by the Mining Association of Canada (MAC), this initiative will encourage BC mines to implement best practices and demonstrate continuous improvement in a number of critical fields of sustainable development including tailings management, community relations, safety and health, energy and greenhouse gas management, and biodiversity. According to Ben Chalmers, vice president, Environment of MABC, “Our sector is in the midst of a significant renaissance that will see tremendous benefits for our members and for British Columbia; however, we need to do a better job engaging with communities affected by our activities and TSM will help us do that in a meaningful way.”

TSM is based on a set of guiding principles that are in turn supported by performance elements and indicators. Reporting on the performance elements and indicators is done at the facility-level, allowing interested parties

to track the performance of individual mines and smelters. Reporting and performance are also verified by independent third party verifiers, which provides a high level of confidence in the reported results. The initiative is stewarded by the TSM Governance Team, a MAC-board led committee, and by a group of initiative leaders, the points of contact for TSM within each member company. In addition, one of the most important and innovative aspects of TSM comes from the input and guidance provided by an external Communities-of-Interest Advisory Panel. The TSM Communities-of-Interest Advisory Panel includes representatives from labour, Aboriginal organizations and communities, NGOs, mining communities and the investment sector. The panel, which held its founding meeting in March 2004, meets twice a year. Its mandate is to help MAC members and communities-of-interest improve the industry’s performance, to foster dialogue between the industry and its communities-of-interest, and to help shape TSM goals.

The BC mining industry is at a critical juncture at this time, poised for a growth phase not seen in several decades with the opening of as many as six new mines in the next three to four years, with several more mines on the horizon after that. New levels of growth not seen in a generation brings higher levels of scrutiny and expectations. TSM is an important tool that can help to meet and exceed those expectations, on the way to greater levels of responsibility and transparency.

For more information, visit mining.bc.ca.

The BCIT Alumni Card



The BCIT Alumni Card provides alumni with access to many on- and off-campus services and discounts. The cards are \$40 and have a five-year expiry. New benefits to the Alumni Card are currently in the works.

A premier benefit of the BCIT Alumni Card is a 20 percent discount off of one BCIT part-time course, up to a maximum of \$100. Please note, registration must be in person to qualify.

Apply for a card in person at one of the three BCIT Campus libraries:

BCIT Burnaby Campus library
Building SE14
3700 Willingdon Avenue, Burnaby
604.432.8370

BCIT Aerospace Campus library
3800 Cessna Drive, Richmond
604.419.3708

BCIT Marine Campus library
265 Esplanade West, North Vancouver
604.453.4107

Alternatively you can visit bcit.ca/alumni/benefits to get your card.

CHECK OUT
THE NEW WIND
DEFLECTOR
DEVELOPED BY THE
SCHOOL OF ENERGY

Visit youtube.com/bcit,
search ‘wind deflector’.

Changing how and what we teach

THERE'S NO DOUBT ABOUT IT: the world in which we live and operate is changing fast. At BCIT, we're striving to get ahead of the curve when it comes to preparing students for the jobs of the future. This means critically assessing the "how" and "what" we teach our students, and having the expertise and confidence to lead the way for sustainability in post-secondary education. BCIT faculty on the Sustainability Committee Working Group on Education and Research have been integral in updating individual programs and incorporating eco-conscious instructional practices into their everyday classroom lessons, all of which contribute towards reducing BCIT's ecological footprint. Dr. Barry Hogan, director, Program Development and Review, says, "The Working Group has already identified numerous success stories from among their peers, and we will be collaborating with other Sustainability Working Groups to communicate and support these important breakthroughs."

Dr. Hogan credits the dedicated group of faculty behind this initiative for its initial success. "These individuals volunteered to participate given their passion for incorporating sustainability into their courses and programs, adopting instructional practices that contribute towards reducing BCIT's ecological footprint, and engaging in applied research to develop and test technologies and approaches that advance BC's green economy."



PACIFIC SPIRIT PROJECT TEACHING FACULTY TO "TEACH GREEN"

The Pacific Spirit Project enables faculty who are interested in incorporating sustainability concepts and practices into their curriculum. The project commences with a two day experiential workshop in June, followed by a commitment over the following six weeks to reflect and adapt the curriculum. Participants then have a one day opportunity in August to share their plan for next steps, and reflect on their experiences with other faculty who have volunteered in this initiative.

The project was started in 2007 by Jennie Moore, BCIT's director of Sustainability. Jennie identified John McDonald, an early adopter who is the BCIT industry services manager for the School of Construction and the Environment and leader of the Pacific Spirit Project in Sustainability. Using the Ponderosa project (www.greenguide.nau.edu/ponderosa.html) guidelines, John and Jennie developed this two-day experiential workshop. As John explains, "Led by resource experts, the workshop provides guidance

and inspiration for instructors to change how they perceive the world around them and translate that into key learning tools for their students."

Twenty faculty participate each year, each must commit to executing a project after completing the workshop. The project has been so successful, BCIT is planning on introducing multiple workshops throughout the year.

NEW PROGRAMS INTEGRATE SUSTAINABILITY TO PREPARE GRADS FOR GREEN JOBS

The institute has incorporated sustainability knowledge and skills into these new programs:

- > **Architectural and Building Engineering Technology** – Diploma of Technology bcit.ca/5910diplt
- > **Ecological Restoration** – Bachelor of Technology bcit.ca/8040btech
- > **Environmental Engineering** – Bachelor of Technology bcit.ca/8060btech
- > **Renewable Resources (Fish, Wildlife, and Recreation)** – Diploma of Technology bcit.ca/7200diplt
- > **Joinery (Cabinetmaker)** – Certificate of Trades Training (bcit.ca/2050ttcert) and Apprenticeship (bcit.ca/4850appr)
- > **NEW Sustainable Energy Management** – Associate Certificate bcit.ca/5070acert
- > **NEW Sustainable Business Leadership** – Diploma of Technology

SUSTAINABLE BUSINESS LEADERSHIP PROGRAM COMING SOON

On the frontlines of educating future generations, the institute continues to evolve existing and develop new specialized programs, such as the Sustainable Business Leadership (SBL) program. The SBL

program is offered as a joint credential from the School of Business and the School of Construction and the Environment. The aim of the program is to develop sustainable business leaders who can promote sustainable business approaches and initiatives within organizations (intrapreneurs) and in new business start-ups (entrepreneurs).

Graduates from the SBL program will have a wide range of employment opportunities given their technical and scientific skills, and their sustainable business management training acquired in the program. This particular blend of knowledge bases is, and will continue to be, in high demand as companies and organizations shift toward the triple bottom-line and adopt clean technology initiatives. No other Canadian program at this level integrates the knowledge domains of BCIT's School of Construction and the Environment and School of Business. This integration is what makes our program unique and prepared to meet the needs of the shifting market, consumer demands, and business climates of the coming decades. The program is expected to accept its first intake of students in the Fall 2011 term.

NEW SUSTAINABLE ENERGY MANAGEMENT PROGRAM

The Sustainable Energy Management Associate Certificate (SEMAC) program is a partnership between BC Hydro and BCIT, with funding support from the Natural Resources Canada – Office of Energy Efficiency. The program is designed to support employment opportunities in an emerging field of sustainable energy management, with focus on energy demands of commercial and institutional buildings.

The target audience for this associate certificate are those that are interested in expanding their knowledge and initiatives into sustainable energy management at their company / building or are interested in changing careers. Visit bcit.ca/5070acert for more information.

Changing the world around us

AFRESH HOME A MODEL FOR SUBURBAN SUSTAINABILITY



THE HOME WAS DEVELOPED USING OFF-THE-SHELF TECHNOLOGY, A FLEXIBLE DESIGN, AND HEALTH CONSCIOUS, HIGH QUALITY BUILDING PRACTICES. IT REMAINS AN AFFORDABLE, DURABLE, HEALTHY, AND ENVIRONMENTALLY CONSCIOUS DEMONSTRATION HOUSE.

AFRESH (ACCESSIBLE & AFFORDABLE, FLEXIBLE, RESILIENT, ENERGY EFFICIENT, SUSTAINABLE, HEALTHY) HOME is a project that showcases innovations in sustainable housing construction. It began as a housing demonstration project designed to show how a home can be created that will provide life-long comfort for its occupants, using the most innovative yet practical ideas in housing to date. The home was developed using off-the-shelf technology, a flexible design, and health conscious, high quality building practices. It remains an affordable, durable, healthy, and environmentally conscious demonstration house.

The building is located in the northeast sector of the Burnaby Campus, and is part of BCIT's Sustainability Precinct. The Precinct aims to advance the state of practice in the adaptive restructuring of the built environment to achieve significant reductions in energy and materials consumption without compromising service levels. The Home fits with BCIT's Greenhouse Gas (GHG) and Energy Management Vision "to demonstrate the wisest energy and GHG management in BC...BCIT will be viewed as the place where industry comes for training...to achieve energy saving and reduce carbon emissions."

The Home is a wood-frame structure with two stories (2,000 square feet) plus convertible attic (785 square feet, but not designed to hold significant weight)

and crawlspace below. It is designed to fit a typical urban lot of 33 ft by 122 ft, with rear lane access. Currently configured as a code-compliant vertical duplex, it can be easily converted into a four-bedroom single-family home.

In the AFRESH Home, BCIT and BC Hydro have researched photovoltaic (solar roof panel) and fuel cell distributed electricity generation since 2006. The AFRESH Home serves as an applied research facility supporting research projects through BCIT's Building Science Centre, the Centre for Energy Systems Applications, the Centre for Infrastructure Management, and the Group for Advanced Information Technology. Demonstrations, courses, and future programs build knowledge on how homes can contribute renewable energy to the power grid. The home also has a heat-recovering air exchange system, and a geoexchange heating and cooling system that increases efficiency 40%-70% by harvesting heat from the earth.

Tours of the AFRESH House are available to alumni, staff and industry partners. Find out more at bcit.ca/sustainability.

Watch the video! Visit youtube.com/bcit, search 'AFRESH'.

WATER FOR LIFE SHOW SET FOR SPRING 2011



Mark Angelo is nationally renowned for his lifelong work in gaining public awareness for Canada's waterways and the impact that humans have on our natural environment. Having successfully launched BC Rivers Day

in 1980, and taking it global with the launch of World Rivers Day in 2004 (more than 60 countries involved with millions of participants), Mark is now focused on increasing engagement within the local community.

Water for Life, which Mark refers to as a celebration of water, rivers, and the natural world, will be a live event at the Michael J. Fox theatre with inspirational stories, images, and music (April 7, 2011), as well as a televised event on Global later in June. "I've always had an affinity for water and have been involved in rivers since I was very young. I went to Ethiopia this summer, in this really remote little village, and I

walked 15 kilometres with some of the women to get water. It took us all day – three hours there and four hours back – and it just made me realize how precious water really is to sustain life.

"No matter where you live, we can all do more to be better stewards of our water resources and handle this powerful resource with amazing respect," says Mark. "When you come right down to it, water and life are synonymous."

Mark and his colleagues will be talking about various issues related to climate change and the importance of water to the ecosystem. The show will also celebrate the many values associated with our local and international rivers and streams and our water resources in general.

Live show proceeds will be contributed equally to WaterCan (which works to increase access to clean water in parts of Africa) and the Nature Trust of BC (in support of their efforts to protect key habitats along the Fraser). Tickets go on sale February 1 at ticketmaster.ca or by calling 1-855-985-5000.

BCIT RECOGNIZED FOR ENERGY SAVING MEASURES

BCIT has been nominated for a BC Hydro Power Smart Excellence Award.

BCIT is one of three nominees in the conservation partner category. The nomination recognizes BCIT's collaboration with BC Hydro on energy conservation research and promotion of energy efficiency on our campuses.

CEER puts The School of Energy at the centre of energy education and research in BC



A NEW HUB FOR THE STUDY OF ENERGY, academic cooperation and innovation is coming to BCIT's Burnaby campus. Slated for completion in early 2011, the School of Energy's (SoE) world-class boiler/co-generation and industrial instrumentation facility is a significant part of infrastructure construction happening at BCIT. The facility forms the basis of the Centre for Energy Education and Research (CEER). Highlights of the new multi-million dollar energy studies centre include:

- > The cleanest operational boiler in Western Canada with controls to minimize emissions and maximize energy efficiency in alignment with the BC Government's clean energy mandate.
- > A 300kW generator to harness the output from the boiler and to teach electricity production in concert with BCIT's "intelligent microgrid".
- > The multi-fuel boiler will produce enough steam to power multiple remote labs around campus including the Unit Ops Lab, the Mechanical Engineering thermal lab, and the Chemical and Environmental pulp and paper lab.

100 DELEGATES FROM THE INTERNATIONAL SYMPOSIUM ON MICROGRIDS VISIT BCIT

Nearly 100 smart microgrid experts visited the BCIT Burnaby Campus as part of the International Symposium on Microgrids held in Vancouver by the Lawrence Berkeley National Lab. The site-visit was part of the two-day conference in Vancouver and included a tour and explanation of the AFRESH home, a smart metering network, the BCIT co-generation facility which utilizes bio-fuels, and a host of other cutting-edge power technology.

The AFRESH home is a net-zero residence and was a huge draw for the delegates who had questions about its geo-exchange heating, solar power, smart appliances, hybrid vehicles and fuel-cell technology.

The group also toured the photovoltaic tower, the new Gateway building site which will utilize geothermal power, as well as leading edge power management systems, and the Internet Engineering Lab.

Hosted by the Group for Advanced Information Technology at BCIT and a number of industry partners, the tour gave symposium delegates an inside look at BCIT's unique smart microgrid technology. Many delegates returned the next day for a workshop discussing the future of energy management.

Watch the video! Visit youtube.com/bcit, search 'microgrids'.

While physical conduits distribute energy from the facility across the BCIT campus, CEER will also be a nexus for academic connection, drawing together academics and researchers from across the institute. Students, faculty and operations personnel will work together in a cross-disciplinary learning and research environment focused on energy production, distribution, sustainability and management.

CEER creates the capacity to:

- > Educate students from Power Engineering, Industrial Instrumentation, Chemical and Environmental Technology and, Mechanical Engineering and Technology on state of the art equipment.
- > Attract research funding and deliver industry services training.
- > Emerge strategically aligned with the energy self-sufficiency goal envisioned by the province in the BC Energy Plan.

Visit bcit.ca/energy to learn more.

BCIT SCHOOL OF ENERGY

Did you know that 48% of Canada's energy consumption is by industry? Skilled engineers, technologists, technicians and trades people are needed right now to address our energy challenges.

"The graduates from The School of Energy will be well positioned to help improve energy returns by increasing efficiencies in industrial processes as well as developing cost-effective alternative energy sources. The School of Energy is committed to applied education and collaborative research in these areas and works with other BCIT departments to make BCIT and BC a leader in efficient energy technologies."

— Trevor Williams, Dean, School of Energy

MAKE IT BUSINESS BOOKCLUB BCIT ALUMNI OFFER



The BCIT School of Business has partnered with Make it Business magazine as the lead educational sponsor of a new initiative aimed to connect budding small business owners, operators, executives, and managers with experienced business mentors. "We are excited to partner with Make it Business to bring you a powerful new way of learning and connect to the business community," says Robin Hemmingsen, dean of the School of Business.

The Make it Business Book Club meets twice each month in different Blenz Coffee locations around the Lower Mainland, and a different book is selected for discussion at each meeting. Led by a trained moderator, the meetings aim to provide knowledge, networking and mentorship for all levels of entrepreneurs and business operators, and cover topics such as market positioning, strategic development, and social economics.

BCIT alumni are encouraged to participate in the Make it Business Book Club by trying out their first meeting for free. Visit the Make it Business Book Club site to learn more and sign up for an annual membership at the preferred rate of \$99 for a one-year membership (a \$20 savings). The promo code is "onefreemeeting" and should be entered on the second page of the registration form to attend one meeting free.

MARINE GRADS PROTECT SEALIFE

Kevin O'Brien graduated from BCIT's Nautical Sciences program in 2004 with the goal of starting a career in the marine industry and learning about environmental sustainability. Little did he know that his BCIT training would lead him to tropical lands full of exotic animals and sea creatures.

There is trouble in paradise though. Modern society poses many threats to marine life, as demonstrated by the devastation caused by the oil spill in the Gulf

Coast during much of 2010. Kevin works on the Nautilus Explorer, a luxury safari boat specializing in pampering small groups of scuba divers on unique diving adventures up and down the west coast of North America. Destinations include the great white sharks of Guadalupe Island, the giant mantas and dolphins of Socorro Island (Revillagigedo's) and adventures into Alaska and British Columbia. The Revillagigedo's and Gaudelupe Islands are a protected Biosphere Reserve and sanctuary for a population of sharks, dolphins, turtles, more than 200 giant manta rays and a winter population of 1200 humpback whales. Nautilus Explorer's crew is passionately involved in conservation efforts and encourage their guests to get involved and spread the word about illegal fishing and its impact on the environment.

To learn more about the Nautilus Explorer's conservation efforts, visit <http://nautilusexplorer.com/conservation.htm>.

TOYOTA PRIUS PLUG-IN HYBRID COMES TO BCIT



BCIT has a share in one of only five Toyota Prius Plug-in Hybrid Vehicles in Canada. Along with BC Hydro, the City of Vancouver, the Ministry of Energy, Mines and Petroleum Resources, and the University of Victoria's Institute for Integrated

Energy Systems (IESVic), BCIT has been selected as a provincial testing partner for the cutting edge Prius Plug-in Hybrid (PHV).

Toyota's BC partners will share the Prius PHV, which is fitted with telematics equipment to record vehicle and hybrid system performance.

"We are proud to be a part of research using leading edge technology like the Toyota Prius Plug-in Hybrid Vehicle," said Don Wright. "This is a great opportunity for BCIT to contribute to the increased energy efficiency and reduction in greenhouse gases that are essential to creating the green economy in British Columbia."

Technology Professionals Shaping BC's Future

Alumni. Ask for our **Application for Registration** to become a qualified technology professional with ASTTBC.

Employers. Looking for the **best** to join your team? Call for **ASTTBC registration** and use our employment service CTEN... www.cten.ca

As a Technology Professional, you are...

Qualified. Technology professionals qualified by ASTTBC earn **recognition** for the time and effort they have put into their career. Our professional titles and designations will speak volumes about **WHO** you are and **WHAT** you do as a technology professional.

Registered. ASTTBC is responsible under the ASTT Act for regulating the professional standards and practice of technologists and technicians in applied science and engineering technologies. We currently register practitioners in... *biological sciences, biomedical engineering, building, chemical, civil, electrical, electronics, environmental, forest engineering, gas and petroleum, geomatics, industrial, information technology, mechanical, metallurgical and mining.*

Accountable. Technology professionals registered with ASTTBC are highly qualified people who are job-ready with education and experience, and are professionally accountable for their services.

Explore the potential... discover the fit!

For more info... www.asttbc.org

Applied Science Technologists & Technicians of British Columbia

ASTTBC technology professionals™

About ASTTBC...

We are a self-governing association of technology professionals with 9,500+ registrants including technologists, technicians and technical specialists.

Our mandate... to serve the public by regulating and supporting technology professionals' commitment to a safe, healthy and sustainable society and environment.

THE ASSOCIATION FOR TECHNOLOGY PROFESSIONALS IN BRITISH COLUMBIA

Alumni Sharing Success Campaign

EVERY DAY, MORE THAN 130,000 BCIT alumni are improving the quality of life in our communities because of the training they received at BCIT. Our reputation for training and educating job-ready graduates is based on the achievements and successes of BCIT graduates like you, who for almost 50 years have shaped life in British Columbia and beyond.

The annual Alumni Sharing Success Campaign aims to help future graduates continue having the same impact by providing support to students through bursaries and awards and by improving student resources.



WHY EVERY ALUMNI GIFT MAKES A DIFFERENCE

Every gift, no matter the size, makes a difference at BCIT because when many gifts are combined together alumni donations have a major impact. The growing support of alumni for BCIT also help us raise funds from business and industry by demonstrating graduates' continued commitment to BCIT's success,

Throughout November and December, current full- and part-time students called graduates to ask for their support in raising \$50,000 to build the Alumni Association Scholarship and Bursary Endowment to \$1.1 million and enhance vital student resources at the library by improving areas such as group project spaces.

Today's students face higher costs (tuition and living expenses) than any previous generation, so more than ever we need your help to ensure their continued success.

For the latest information on how much the campaign raised or if you didn't receive a call and would like to make a donation please visit bcit.ca/alumni/supporting.

SHARING SUCCESS CAMPAIGN – THANK YOU!



Over 350 alumni donated to our \$1 million campaign, raising more than \$40,000 for the Alumni Association Endowment and helping us reach our \$1 million goal earlier than planned. Thank you to everyone for their contributions over the years.

This is BCIT's first million dollar endowment funding scholarships and bursaries and it has provided support to 635 students with awards totalling \$621,312.

Special thanks also to John Hiebert, President and Partner of TASK Construction Management Inc. who provided the final \$1,000 required to meet the goal. John is a graduate from the Building Engineering Technology program and received the Distinguished Alumni Award in 2009 for Significant Contributions to an Industry (Construction).

Photo caption: From left to right: Sherri Magson, Director, Alumni Relations and Community Giving, John Hiebert, President and Partner of TASK Construction Management Inc., Adam Pion, former President, BCIT Alumni Association, Tyler Davis, President, BCIT Alumni Association.

ALUMNI CALLING CAMPAIGN

A GREENER WAY TO STAY CONNECTED

Each year the Alumni Association calls graduates to update their contact details, tell them about the latest alumni benefits and invite them to make a gift to the Sharing Success Campaign.

The Calling Campaign is also contributing to the Association's green initiatives by collecting email addresses to help reduce print mailings. If you do not currently receive emails from the Association we encourage you to update us with your email address by either calling 604.432.8847 or by going online at bcit.ca/alumni/directory.



3rd annual golf tournament raises funds for student awards



DON'T MISS THE 2011 TOURNAMENT!

Date: Tuesday, July 12, 2011

Place: Northview Golf & Country Club
6857 168th Street, Surrey, BC

northviewgolf.com

Visit bcit.ca/alumni/open to register your foursome today!

BCIT ALUMNI, STAFF, STUDENTS, AND FRIENDS were on hand to tee off at the 3rd annual Canadian Direct Insurance BCIT Alumni Open golf tournament at Northview Golf & Country Club in Surrey on July 13, 2010. The event raised \$75,000 to support the BCIT Alumni Association Endowment, which reached its goal of \$1 million in May of 2010.



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Dreyer Group is thrilled to announce an exclusive Mortgage Savings Program to BCIT Alumni.

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BCIT celebrates at 8th Annual Distinguished Alumni Awards

EXCEPTIONAL ALUMNI AND FACULTY RECOGNIZED AT BCIT'S DISTINGUISHED ALUMNI AWARDS EVENT



The 2010 Distinguished Alumni Award recipients. Clockwise from center top right: Stuart Ballantyne, Dr. David Holloway, Leila El-Khatib, Tim Shields, and Brent Charleton.

BCIT'S EIGHTH ANNUAL DISTINGUISHED ALUMNI AWARDS were held September 30, 2010 at the Four Seasons Hotel Vancouver. Five people were honoured for their outstanding achievements, including four BCIT graduates and one dedicated faculty member and researcher. Sold out for yet another outstanding year, the event was co-hosted by BCIT and the BCIT Alumni Association.

"BCIT's Distinguished Alumni Awards are an opportunity for the institute to celebrate the graduates of our programs as well as their impact on the social, environmental, and economic development of this province," says Don Wright, president of BCIT. "Our grads become leaders in their field, making strong contributions to business and industry that clearly reflect the value of technology and trades studies at BCIT."

The crowd was delighted with funny stories of their times at BCIT in the acceptance speeches of the recipients. All five of the recipients thanked their families and colleagues for their generous support and confidence, and offered words of wisdom to guests. Tim Shields, who received an award for public service, told the crowd that he finds inspiration in his family and coworkers to persevere through difficult situations, and Leila El-Khatib, director and Middle East trainer, 6 Degree Seminars Inc., attributed her success in establishing her own business to her BCIT training and the support she received from her former instructors.

CTV news anchor Mike Killeen, master of ceremonies and a BCIT Broadcast grad, kept the crowd entertained with his own stories of his times at BCIT. The evening was closed by Sherri Magson, acting executive director of the Alumni Association, thanking all those that were involved in putting on yet another extraordinary evening of celebration. Lucky attendee Kim Dotto won a cruise for two from San Francisco. Congratulations Kim!

Nominations are invited for the 2011 BCIT Distinguished Alumni Awards. If you know of a deserving BCIT graduate, faculty member or current student, please contact the BCIT Alumni Relations Office at alumni@bcit.ca, or phone 604.432.8847.

Video profiles of this year's award winners may be viewed online at bcit.ca/alumni/awards.



DR. DAVID HOLLOWAY
INSTRUCTOR, BCIT MATHEMATICS
Excellence in Research Award



STUART BALLANTYNE
MARKETING MANAGEMENT DIPLT '84.
CHIEF OPERATING OFFICER, VANCOUVER GIANTS HOCKEY CLUB
Distinguished Alumni Award for Professional Leadership



LEILA EL-KHATIB
BACHELOR OF BUSINESS ADMINISTRATION '09,
MARKETING MANAGEMENT – ENTREPRENEURSHIP DIPLT '00.
DIRECTOR AND MIDDLE EAST AND ISLAMIC TRAINER, 6 DEGREE SEMINARS INC.
Distinguished Alumni Award for Service to the Community



INSPECTOR TIM SHIELDS
CIVIL AND STRUCTURAL ENGINEERING DIPLT '90.
OFFICER IN CHARGE, RCMP STRATEGIC COMMUNICATIONS SECTION, VANCOUVER, BC
Distinguished Alumni Award for Public Service



BRENT CHARLETON
MARKETING MANAGEMENT – ENTREPRENEURSHIP '10.
MARKETING COORDINATOR, ENWAVE CORPORATION
Outstanding Student Leadership Award

NOMINATE SOMEONE TODAY!

Nominate an outstanding BCIT grad for a BCIT Distinguished Alumni Award.

Deadline to nominate is April 29, 2011, visit bcit.ca/alumni/awards.

WE GRATEFULLY ACKNOWLEDGE THE 2010 BCIT DISTINGUISHED ALUMNI AWARDS SPONSORS

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KUDOS!

Pommashea Noel-Bentley appointed Vice President, Alumni and Development and CEO of the BCIT Foundation



BCIT is very pleased to introduce Pommashea Noel-Bentley. Pommashea has more than 17 years of alumni relations, marketing and fund development experience. She has held leadership roles in post-secondary institutions in Alberta

at the University of Calgary and SAIT Polytechnic and most recently in the social services sector as vice president of Resource Development with United Way of the Lower Mainland.

Known for delivering results through a blend of redefining practice and theory, Pommashea was previously recognized as one of Calgary's Top 40 Under 40 business leaders. She is the only Canadian to be awarded the U.S. Council for Advancement in Education's (CASE) prestigious Warwick Award for Outstanding Master's Thesis for her study focused on the creation of a model to measure stakeholder accountability. Also, she is responsible for one of the largest gifts in Canadian history given to a post-secondary college.

Focused on improving the lives of others, her teams have set national records and received wide-spread acknowledgement for establishing leading practices. In each organization, there has been an emphasis on building and sustaining strategic relationships with key stakeholders, which help move the organization forward through their dedication, advocacy and financial investment. Pommashea holds an MBA from Athabasca University.

BCIT's Dean, School of Transportation will be Jay Notay

BCIT is welcoming a new dean of the School of Transportation in June 2011. Jay Notay is originally from BC but has spent the past number of years in Ontario. Jay comes to us with 14 years experience as a dean, associate dean, and manager in the Ontario post-secondary environment where he provided educational and administrative leadership. He has contributed to the Ontario educational community through various roles including; dean, Georgian College, Marine and Aviation Programs; associate dean, Faculty of Engineering Technology, Mohawk College; manager, Corporate Training, Canadian Automotive Institute; Alternative/Renewable Energy Applied Research Advisory Council; and Skilled Trades Apprenticeship Consortium.

Jay is currently enrolled in a PhD program at the University of Toronto within the Ontario Institute for Studies in Education and holds a Masters of Education degree from Nipissing University. He is keen to return to Vancouver which he still considers home.

BCIT alumna named Minister of Community, Sport, and Cultural Development

BC's new Minister of Community, Sport, and Cultural Development is a BCIT grad. Stephanie Cadieux graduated from Financial Management (Financial Planning option) in 1997. Now MLA for Surrey-Panorama, the politician was recently appointed Minister of Community, Sport and Cultural Development.

Before her life in public office, Stephanie served as the Director of Marketing and Development for the BC Paraplegic Association and Manager of Accessibility for 2010 Legacies Now. She was voted one of Business in Vancouver's Top 40 Under 40 in 2007.

Kim Dotto named Dean, Applied Research and Technology Centre



New dean – familiar face. Veteran BCIT employee Kim Dotto has been named dean of Applied Research and Technology Centre.

Kim has worked at BCIT for 15 years: nine as an instructor and program head, four as associate dean, and, most recently, two years as acting dean in the School of Computing and Academic Studies where he provided administrative and educational leadership.

BCIT grad wins the Outstanding Woman in Construction award

Leah-Ann Maybee has been awarded the VRCA's Outstanding Woman in Construction 2010 Award. Leah-Ann is responsible for overseeing Omicron's Health and Safety Program. She has over seven years experience in Occupational Health and Safety within various industries including construction, mining, and healthcare.

Danny Catt receives Service to Humanity award



BCIT's Daniel Catt, an instructor in the Fish, Wildlife and Recreation program, has been awarded a Global Alumni Service to Humanity Award by the Rotary Foundation.

The Global Alumni Service to Humanity Awards are intended to "celebrate Rotary Foundation alumni whose extraordinary service activities and professional achievements exemplify the Rotary ideal of Service Above Self." Every year, each of Rotary's 34 zones are eligible to nominate an outstanding Foundation alumnus or alumna for the award. Daniel was the winner for Zone 24, which covers most of Canada, Alaska and eastern Russia.

Danny, as he is known to his friends and colleagues, has a Diploma in Fish, Wildlife and Recreational Land Management from BCIT, a BSc in Biology from SFU and a MSc in Wildlife Ecology from SFU.

Annalea Krebs nominated for Young Women of Distinction Award

A graduate from Marketing Management in 2007, Annalea Krebs was nominated for a YWCA 2010 Young Woman of Distinction Award for her work as a social entrepreneur. Founding **thechange.com** and **ethicaldeal.com**, Annalea connects eco-conscious buyers and sellers in an online forum, all of which supports her platform of sustainable and responsible consumption.

BCIT's Marvin Rosenau recognized for conservation advocacy

BCIT Fish, Wildlife, and Recreation instructor Dr. Marvin Rosenau has been awarded the Canadian Wildlife Federation's Roland Michener Conservation Award for his conservation work. The award recognizes an individual who "has demonstrated a commitment to conservation through responsible activities that promote, enhance and further the conservation of Canada's natural resources."

Ron LeClair starts Commercial Chemistry Consulting, pens two books

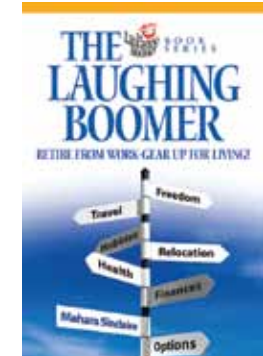
Ron graduated from Chemical Sciences – Industrial Chemical in 1976. His business started in late November 2010. The first phase includes setting up his blog and website, then his first two e-books were ready for sale in early December. The first is called Introduction to Commercial Chemistry and the second is titled Career Development for Commercial Chemists.

BCIT wins GOLD for Best E-Innovation in Post-Secondary Advancement

The BCIT Marketing Communications and Web Services departments proudly accepted a 2010 Prix d'Excellence Award from the Canadian Council for Advancement in Education (CCAIE) at their annual conference in Victoria in June this past year. The award was given for the institute's 3 Blog Nights events, two 72 hour non-stop social media events that promoted BIG info, BCIT's in-person recruiting event and program showcase.

Grad pens how-to retirement book

Mahara Sinclair, a former faculty instructor in the Trades Discovery for Women program and alumna from the School of Business, has just published her first book in The Laughing Boomer Series: *Retire from Work – Gear up for Living!* Other books to be released later this year include *How to Plan a Round-The-World Trip*, and *Stories of South America*. Mahara and her husband have been travelling the world for two years completing a 45 country odyssey. Dozens of people have followed Mahara's journey through her trip reports at **thelaughingboomer.com**.



Schmoozapalooza brings together creative talents



THIS YEAR'S FIFTH ANNUAL Schmoozapalooza networking and fundraising event was creatively broken up into two components and successfully featured the first Zip It and Bid It Silent Auction, held last December in the BCIT Great Hall.

Each year, Schmoozapalooza is organized by students from the BCIT Marketing Association and the Association of Integrated Marketers to connect Marketing Communications students with industry professionals, and also to raise funds for the BCIT Marketing Communications Scholarship and Bursary Endowment.

The silent auction brought the BCIT community together to BID on items in support of the Endowment, and ZIP IT by donating warm clothes for the Progressive Housing Society in Burnaby.

The networking event took place at the Rocky Mountaineer Train Station in January, where students made contact with alumni and industry professionals and secured internship opportunities. All proceeds also went towards supporting student success through the BCIT Marketing Communications Endowment in Honour of Carroll Nelson.

NETWORKING BEGINS AT ANNUAL FUSE GALA



SIFE-BCIT hosted its first ever FUSE gala on April 14, 2010 at the Coast Coal Harbour Hotel. The gala featured speaker Peter Legge, CEO of Canada Wide Media Ltd., who provided insights to the group of soon-to-be BCIT graduates on business ethics and leadership.

The 2011 event will take place on Wednesday, April 20 from 5:30–9:00 pm once again at the Coast Coal Harbour. Alumni are encouraged to attend! Check **fusegala.com** for registration information.

CONNECTING WITH CLASSMATES

Have you considered organizing a reunion? If yes, your BCIT alumni association can assist you in many ways. Contact us for more information at alumni@bcit.ca.

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Grapevine



**2001
Art Price**

Power Engineering
I am currently teaching high school sciences in Burnaby and living in East Vancouver. My intention in taking Power Engineering was to obtain training and credentials relevant to working in some aspect of renewable energy, my intended career change, but it hasn't happened yet! And I've been a dad now for five years (for which I received no specific training).

**1999
Ryan Dyrbye**

Computer Systems Technology
I now work for Propharm, and do pharmacy-based computer software in BC. I work from home, and love my job.

**1993
Ronda Payne**

Marketing – Advertising and Sales Promotion
Ronda Payne (nee Eyben), is loving the adventure of being the 'Mistress of her own Domain'. Having started her own copywriting and freelancing business in 2007, it has been an exciting journey from the years of being a 'Marketing Maven' to here. The diploma earned at BCIT has, and continues, to serve her well. She's enjoying life in Maple Ridge with husband Frank, and is thrilled to live just minutes away from best friend, and fellow BCIT alumni, Colleen Birnie (nee Witthoef).

**1990
Nathan Lauer**

Transportation Logistics Management
Nathan successfully completed his MBA from the University of Northern BC in 2010. After years working at TSI Terminal Systems Inc in Vancouver, Nathan moved to Prince Rupert, BC to work at the new container terminal for Maher Terminals. His wife, Yvette (a 1995 BCIT grad in Electricity and Industrial Electronics), and their two children are enjoying the northern experience along with him.

In Memoriam

Jillian Vassallo

Jill Vassallo passed away on September 7, 2010 after her fourth battle with cancer – Acute Lymphoblastic Leukemia. She was a recent graduate (2010) from BCIT's Marketing Communications program.

Jill was heavily involved in BCIT's Students in Free Enterprise (SIFE-BCIT), where she spearheaded projects to empower women entrepreneurs from the downtown eastside. Jill's immense courage and her positive disposition shine through her blog gojillgo.com.

"Jill was one of our special marketing graduates and a valued contributor in SIFE. Her immense courage and her positive disposition shines through in her blog. She was a bit of sunshine." says School of Business dean, Robin Hemmingsen.

Jan Virding

Sadly, we inform you of the sudden death of Jan Virding on November 12, 2009, in Portland, Oregon. Jan was very proud of having graduated from BCIT and always spoke fondly of his classmates, instructors, and of his time there. Jan was especially proud of becoming a registered architect years after he left BCIT, and for the foundation his educational experiences there gave him. He leaves behind his wife, Melody, and his three children, Kari, Kyle, and Kristofer. Prior to his death, Jan worked as an architect/ CADD coordinator for Jacobs Engineering in Lake Oswego, Oregon, and as a long time instructor of AutoCAD at Portland Community College. Jan was also an active

community volunteer in many groups, always being very involved in whatever his children were in. An educational fund has been established for his children at On Point Community Credit Union, 14733 S.W. Teal Blvd., Beaverton, OR, 97007.

Marjorie Gordon

Marjorie Gordon (Nursing 1974) died on April 29, 2010 at the age of 56 after an eight month bout with cancer. A life well-lived included only a short time in the nursing profession and then on to family life with a husband, three daughters, a son and two granddaughters with one more on the way. Other pursuits and interests included being very active in the Evangelical Free Church, keeping fit with very early morning runs, working for several years as a school attendant for students with disabilities, volunteering with numerous charities (including the Canadian Cancer Foundation and the Terry Fox run) and laughing with her many good friends. She thrived on her relationships and was extraordinarily effective at nourishing them.

Peter So

Peter King-Sun So passed away peacefully on August 30, 2010, at the age of 51 (Chinese traditional years) after battling cancer. He was born October 2, 1962, in Hong Kong. He moved to Guyana with his family in 1966 and then to Vancouver in 1969. He said he had a carefree and joyous childhood.

Peter studied finance at BCIT ("my best educational decision") and obtained his professional designation as a Certified Management Accountant in 1988. He worked as a Staff Accountant with MDS Metro Labs and BC Gas in the 80's and 90's and was especially proud of his highly rewarding eleven years (1999–2010) with the Association of Professional Engineers and Geoscientists of BC where he was associate director, Finance and Information Technology until the time of his death.

He was honoured to be appointed a member of the Board of Governors of BCIT (1997–2001) where he served in many capacities including Chair. He later joined the Board of Science World and served as Treasurer (2002–2004) until he left to complete his Masters of Business Administration in Information Technology Management (2007). He leaves behind his dear wife of twenty years Dianne King; two wonderful children Derek, 18, and Katharine, 15; parents Sing Kwan So and Young Gook So; brothers David (Ella) and Albert; sisters Jennifer (Ali) and Rosanne (Kirk); mother-in-law Ethelwynne; in-laws Derrick, Graham (Denise) and Lynda (Don); nephews (Eric, Gary, Jeffery, Nicholas, Ian, Samuel, and Thomas); nieces (Megan, Stephanie, Leanna, Shamine, Naomi, and Jett-Lynn); and many beloved cousins and friends.

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"As Capital Projects Manager, I'm directly involved in planning and development of the Bio-Energy Program for the University of Northern BC. UNBC started operating a bio-energy heating plant for its Enhanced Forestry Building in June 2009, the first such system owned and operated by a university in Canada. I'm also managing construction of a major bio-energy plant that will heat core campus buildings. This project will reduce UNBC's natural gas consumption by 85% and decrease greenhouse gas emissions by 3500 tonnes."

Doug Carter, CTech
Capital Projects Manager, UNBC
and President, ASTTBC

Qualified Techs in BC...
Doug Carter, CTech, is a technology professional registered with ASTTBC. Our highly qualified technologists, technicians and technical specialists ensure BC has 'top of class' human capital to help build a sustainable future.

About ASTTBC...
We are a self-governing association of technology professionals with 9,500+ registrants including technologists, technicians and technical specialists.
Our mandate... to serve the public by regulating and supporting technology professionals' commitment to a safe, healthy and sustainable society and environment.

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Freedom of Information /Protection of Privacy Consent
BCIT Alumni Relations, the BCIT Foundation Office and the BCIT Alumni Association routinely contact alumni to offer BCIT programs and services, inform BCIT graduates about alumni events, administer elections of the Alumni Association, facilitate alumni surveys and research, and conduct fundraising appeals. BCIT Alumni Relations and the BCIT Alumni Association will also send to BCIT alumni marketing information about commercial products and services upon the consent of BCIT graduates. If BCIT Alumni Relations does not receive this returned notification, BCIT Alumni Relations and the BCIT Alumni Association will use your name, address or phone number for the purpose of marketing commercial products and services.

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