

## MARK YOUR CALENDARS!

**JANUARY 27 - 30, 2010  
(WEDNESDAY - SATURDAY)**

**Adventure & Learn  
Hawaii 2010**

**The Complete Treatment Concept for  
Restoring Single Missing-Tooth Sites  
Using Implants**

Dr. Tassos Irinakis (Certified Specialist in Periodontics)  
Dr. Chris Wyatt (Certified Specialist in Prosthodontics)

The course will focus on implants to restore the single missing tooth. All aspects of treatment planning, implant surgery and crown placement will be covered.

Location: Mauna Lani Resort, Big Island, Hawaii

Mauna Lani sits oceanfront on the finest stretch of shoreline on the sunny Kohala Coast of the Big Island of Hawaii. It is located 23 miles north of the Kona International Airport, on 30 acres, with three miles of secluded shoreline. The resort includes the luxurious Mauna Lani Bay Hotel & Bungalows, Mauna Lani Spa and two Francis H. I'i Brown golf courses.

**FEBRUARY 5 - 6, 2010  
(FRIDAY - SATURDAY)**

**Annual Vernon Ski Seminar**

**Conservative Cast Gold Techniques for  
Preservation of Tooth Structure and  
Maximum Esthetics**

Dr. Margaret Webb

**Endodontic Treatment Decisions for the  
General Practitioner**

Dr. Jeff Coil

Location: Chilcoot Conference Centre, Silver Star Mountain, BC

Silver Star Mountain offers ultimate downhill skiing for all family members, featuring over 100 superb runs, a number of which are also open for night skiing, and 10 lifts. For the cross-country skier, Silver Star offers 55 km of groomed trails, and 4 km of lit track for night skiing. There are several activities available, including Tube Town, outdoor skating and sleigh rides. The pedestrian-only village offers ski-in, ski-out access to all of the amenities on the mountain! The resort is located 22 km (12 miles) northeast of Vernon, BC, and is a 50-minute drive from Kelowna, BC.

PHOTO BY JOHN SINAL (COVER AND BACK COVER)

# UBC DENTISTRY



THE UNIVERSITY OF  
BRITISH  
COLUMBIA

FALL 09

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## Dean's Message



*Dear Colleagues,  
I am about halfway through my third year at the Faculty of Dentistry and every day I am reminded how lucky I am to be here.*

We have outstanding students, staff and faculty members who are making very important contributions to dental education, research and community service. Other dental deans from North America are very impressed with our accomplishments and sense of community. The potential for the future of our Faculty is truly exciting. It is a pleasure to once again highlight a few of these achievements.

The Strategic Plan for the Faculty of Dentistry has been completed following an extensive series of meetings and consultations. This plan will guide our activities for the next five to seven years. The ten specific Strategic Goals, as well as the purpose and process of developing them, are discussed. The Strategic Plan remains focused on our three thematic priorities: enhancing the student experience, amplifying research productivity and increasing community involvement.

Dr. Edward Putnins led a successful initiative to obtain funding from the Canada Foundation for Innovation to support a high-throughput

bioimaging centre. This facility, which will occupy renovated space on the third floor of the John B. Macdonald Building and will be the only one in Western Canada, represents a resource for research investigators in the entire region. The centre will allow Dentistry faculty to establish new collaborations for their projects and to achieve new insights in their research. And it will provide many exciting opportunities to investigate bone development, disease and regeneration.

Our students have shown great commitment by volunteering in several community clinics to provide oral health care to populations with limited access. In the Downtown Eastside of Vancouver, students have volunteered on many Saturdays to provide dental treatment. The response of the students to these opportunities has been overwhelming and more students volunteer than can be accommodated. In the coming year, many more volunteer clinics will be available to engage the students and provide patients with care.

Planning for the renovation of the previous student clinic in the John B. Macdonald Building continues. These renovations are a critical element in the achievement of our Strategic Goals, and the support of our alumni and industry partners has been critical to creating new learning spaces for our students. The Faculty of Dentistry is in the enviable position of having space that can be configured to benefit our programs. I invite you to come and visit to see these new changes.

I remain excited by the opportunities at UBC and hope you enjoy reading about some of our accomplishment in this edition of *Impressions*.

All the best,

Charles Shuler, DMD, PhD  
Dean and Professor, Faculty of Dentistry

PHOTO BY MARTIN DEE

# NEWS

## Governments of Canada and BC Invest in UBC Dentistry's Bioimaging Facility

Created by the Government of Canada to fund research infrastructure, the Canada Foundation for Innovation (CFI) will fund the expansion of UBC Dentistry's bioimaging facility for bone imaging and analysis. The British Columbia Knowledge Development Fund (BCKDF) has provided matching funds.

Dentistry's current bioimaging facility will be expanded into a state-of-the-art centre for all UBC researchers—to be called the Centre for High-Throughput Phenogenomics. New equipment will replace aging microscopy apparatus over 40 years old. Highlights will include a new suite of 3D imaging equipment, a tandem mass spectrometer, computer hardware and software, and improved animal facilities. A 279 sq. m (3,000 sq. ft.) renovation to the third floor of the John B. Macdonald Building will accommodate equipment and scientific functions.

The funds from the CFI and BCKDF will support the \$9.4 million facility for multiple interdisciplinary, high-impact research projects involving protein analysis and imaging techniques. Researchers will see benefits with higher quality images and data with faster processing times.

Two research clusters with ten investigators are committed to developing the centre. One

research cluster is focused on the biological processes regulating bone destruction associated with arthritis (skeletal bone) and periodontitis (oral bone). The second cluster's research is focused on skeletal and craniofacial bone development biology and stem cell bone regeneration.

"The success in securing this funding is due to the outstanding reputations of the investigators—they were co-applicants of the CFI grant application and the strength of its success," said Dr. Edward Putnins, professor and associate dean, Research, Graduate and Postgraduate Studies. Putnins and the co-applicants presented their innovative cross-discipline, cross-platform approach for studying hard connective tissue and won the support necessary to create not only an advanced facility, but one populated by a dynamic research team. This combination is unique in Canada.

Problems with bone, either developmental anomalies or destructive diseases, have a high incidence in the Canadian population, with associated major morbidity for the patients. For more information, read the article "Moving to the Forefront of Bioimaging—A New High-Throughput Centre at UBC Dentistry" in this issue of *Impressions*.

## CIHR Awards Dr. Joy Richman One-Year Funding to Research a Gene that Causes Human Clefting

The Canadian Institutes of Health Research (CIHR) approved Dr. Joy Richman's proposed research, "The Function of TBX22 in Orofacial Clefting," for one-year funding totalling \$100,000. Dr. Richman's grant is one of 32 highly ranked applications from across Canada recently awarded funding by the CIHR.

Every year 500–600 infants are born in Canada with cleft lip and/or cleft palate. These serious birth defects require a number of significant surgeries beginning in infancy and carrying on until adulthood. In addition, there are major dental challenges such as the need to replace missing teeth and bone and to correct jaw misalignments. Richman explains: "The main reason clefts occur is that growth is insufficient to allow contact between neighbouring facial prominences in the early embryo."

In this grant, she will focus on TBX22, a gene that causes human clefting. Using the chicken embryo model, she will determine the mechanisms by which this gene inhibits outgrowth of the early embryonic face. "The significance is that we will arrive at a better understanding of the genes and molecules that control facial development," Richman says. "The long-term goal is to reduce the severity of, and to prevent, orofacial clefting."



Face-on view of a 4.5-day chicken embryo, with the gene TBX22 shown in dark purple.

## Canadian Cancer Society Awards UBC Dentistry Faculty over \$800k in Research Grants

The Canadian Cancer Society Research Institute (formerly the National Cancer Institute of Canada) has been operating under its new name since February 2009, but that does not make it any easier to win their awards. The success rate of getting one of their Canada-wide grants is just 17 percent. UBC Dentistry researchers Drs. Catherine Poh and Chris Overall have received two out of the four grants awarded to UBC this year.

### Dr. Catherine Poh Awarded Research Grant to Study Management of High-Risk Oral Precancers

Just over \$300,000 has been allocated over three-years for Dr. Catherine Poh for her research titled “Characterization of Clonal Alterations Within Novel Fluorescence Visualization (FV) Fields of High-Risk Oral Premalignant Lesions.” Poh points out that more than 300,000 new cases of oral cancer are reported each year worldwide, with half of the individuals dying of the disease. The solution is early detection and effective treatment of high-risk oral precancers.

Poh’s research will entail working with a new hand-held optical tool that helps clinicians identify oral lesions that are not obvious in clinical observation, but which have a high chance of becoming cancer. Poh explains the optimism of her research: “We will, for the first time [in a study], take this tool to the

operating room to help surgeons check and mark the extent of high-risk change around oral lesions that are not apparent to the surgeons’ eyes. And, hopefully, all the high-risk change can be removed in one surgery.”

She will also use pathology and molecular markers to examine the surgical field. Improved molecular technology provides an opportunity for insight into the biology associated with these high-risk lesions and may provide critical information for targeted drug therapy in cancer prevention. Says Poh, “The results from this research can help us develop more effective strategies to better manage high-risk oral precancers. Through better control of these lesions, improved survival rates and reduction of suffering from oral cancer can be achieved.”



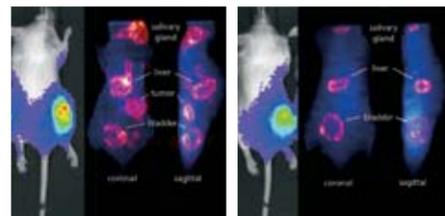
A. An ill-defined white lesion on the right anterior floor of the mouth (oval).  
B. The same lesion, viewed with a fluorescence visualization device, showing well-demarcated, dark non-fluorescent areas (oval).

### Dr. Chris Overall Receives Five-Year Research Grant Totalling \$552k to Study Cancer Proteomics

Dr. Chris Overall’s proposal, titled “Cancer Protease Proteomics: Metadegradomics,” suggests taking the degradomic techniques devised in his lab for evaluating cell systems and using them to study, in cancer, how proteases (enzymes that digest proteins into smaller pieces) work and which proteins are acted upon by the proteases. Degradomics is a highly specialized field of biochemistry that uses global approaches to study the makeup of all proteins in a tissue. “Metadegradomics” is what Overall calls the study of all proteases that are working on all proteins present in whole cancers in tissues.

“We want to study two medically important cancers—skin and pancreatic—using mice as models,” he explains. “We plan to look at members of two families of enzymes that are important in cancer, matrix metalloproteinases (MMPs) and cathepsins.” Finding the proteins that are broken down at various stages of cancer in the body can help work out which pathways help the cancer and which are important for normal cells.

Looking ahead, Overall is hopeful that once he has a cohort of proteins to target and knows which proteins must be protected from drugs (anti-targets), he and his team can use this information to help design drugs to provide new cancer treatments. “The findings from this study will give rise to more effective therapies,” he says, “and we might also be able to follow some of the newly identified proteins as markers to see how the cancer is progressing.”



PET image of a mouse



### Dr. Michael MacEntee Wins the IADR Award in Geriatric Research

Dr. Michael I. MacEntee, professor of Prosthodontics and Dental Geriatrics, ELDERS Research Group, has won the International Association of Dental Research Distinguished Scientist Award for Geriatric Oral Research for his outstanding multidisciplinary research. His work over the years includes contributions to epidemiology, biomaterials, clinical science, and, most recently, the oral health needs of elderly populations.

Notably, MacEntee realized that the usual research methods in epidemiology did not explain or predict the oral health-related behaviours of older people or their health care providers. Consequently, he pioneered the development of more robust explanatory models of oral health that employed qualitative “real world” methods. His studies led to the construction of a new biopsychosocial model of oral health that conforms to the framework and language of the World Health Organization’s International Classification of Function.

His research has demonstrated the dominant influence of psychosocial factors on the status of oral health and on the success or failure of dental treatments. The research methods that his team developed offer a novel and productive approach to explaining, controlling and managing factors that influence the health and quality of life of people as they grow old and frail.

George Zarb, in an editorial for the *International Journal of Prosthodontics*, writes that MacEntee is “one of the best minds in the discipline... a scholar whose urbane and civilized humanitarianism has already had a profound influence...”

### Dr. Alan Lowe Recognized by the German Society of Dental Sleep Medicine

Dr. Alan Lowe, professor and chair, Division of Orthodontics, received the 4th Meier-Ewert Award from the Deutsche Gesellschaft Zahnärztliche Schlafmedizin (DGZS)—the German Society of Dental Sleep Medicine. The DGZS inaugurated the Meier-Ewert Award in 2005 to recognize German neurologist, psychiatrist and sleep physician Prof. Karlheinz Meier-Ewert, who published on mandibular advancement devices in sleep apnea patients as early as 1984.

On October 18, 2008, the DGZS hosted its eighth symposium, held for the third time during the annual meeting of the Deutsche Gesellschaft für Schlafforschung und Schlafmedizin (DGSM)—the German Sleep Society. This latter meeting fosters interdisciplinary awareness among German sleep physicians about oral appliance therapy in sleep-disordered breathing. Dr. Lowe was the keynote DGSM speaker and he presented an overview titled “Oral Appliances and Obstructive Sleep Apnea—Twenty Years of Research.”

Dr. Lowe was honoured as a pioneer in the field of dental sleep medicine for his outstanding scientific work over several decades: he has published more than 100 papers, 120 abstracts and eleven book chapters. He has also lectured extensively on oral appliances, both nationally and internationally, and in 1991 he co-founded the American Academy of Dental Sleep Medicine.



Dr. Alan Lowe with DGZS board members. From left to right: Ulrich Huebers, DDS (vice-president), Markus Heise, DDS (secretary), Alan Lowe, DMD, PhD, FRCD (C), Susanne Schwarting, DDS (president), Joerg Schlieper, MD, DDS (treasurer).



## UBC Dentistry Blogging Project Encourages International Collaboration among Dental Students

The University of Birmingham's School of Dentistry has signed up for International Peer Review, a new media project in blog format that encourages professional development and global citizenship. The project is led by UBC Dentistry clinical assistant professor Dr. Karen Gardner. The format allows students from the different dental schools to congregate online and evaluate each others' work by peer review.

Today's graduates need to negotiate the complex cultural and social challenges that this global world brings with it. The blog advances dialogue and collaboration among dental students from the universities of British Columbia, Saskatchewan, Birmingham, Southern California San Francisco, Tecnológico de Monterrey Mexico, Hong Kong and Melbourne.

Professor Damien Walmsley, coordinator of the project at the University of Birmingham, believes this is a unique way for students to learn from the experiences of others around the world. "Blogging is a great way to include reflective learning by sharing experiences, but it also allows our students to experience other cultures and views on the world," says Prof. Walmsley.

The project, which operates at the undergraduate level, is being funded by Universitas 21, a network of research-led universities around the world. Many providers of medical and dental education have embraced the use of new technologies, such as blogs and podcasts, for delivering learning materials.

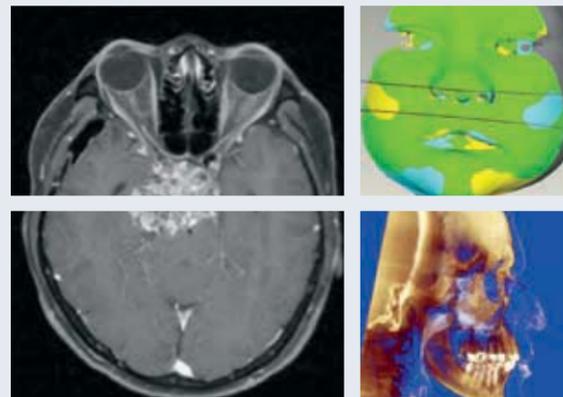
Adapted from the June 1, 2009, University of Birmingham online news posting at [www.newscentre.bham.ac.uk/press/2009/05/International\\_Blogging\\_Project\\_.shtml](http://www.newscentre.bham.ac.uk/press/2009/05/International_Blogging_Project_.shtml).

## UBC Dentistry Research Day 2010 ADVANCES IN CRANIOFACIAL IMAGING

Tuesday, January 26, 2010  
UBC Student Union Building Ballroom

### Distinguished Alumnus Presenter:

Dr. Ernest W. N. Lam, Associate Professor, Oral and Maxillofacial Radiology, Faculty of Dentistry, University of Toronto



## WorkSafeBC Awards Dr. Mel Sawyer an Operating Grant to Study Safety-Engineered Needles in Dentistry

WorkSafeBC, under its Focus on Tomorrow—Innovation at Work funding program, has awarded clinical assistant professor Dr. Mel Sawyer an operating grant to conduct research comparing the use of safety-engineered, self-recapping syringes and traditional local anaesthetic syringes in dentistry.

Sawyer points out that because of potential needle stick injuries to the clinician and the risk of an acquired infection, WorkSafeBC mandates that "a needleless device or safety-engineered hollow bore needle must be used for administration of medications or fluids." However, this does not apply if the "use of required device, needle or sharp is not clinically appropriate in the particular circumstances..." To date, dental practitioners have continued to use the traditional kind of syringe, manually replacing the protective cap that covers the needle.

The purpose of Sawyer's research, then, is to determine if it is clinically appropriate to use currently available safety-engineered syringes in the dental setting. Questions to be answered include: Would safety-engineered syringes contribute to clinician safety without increased risk to the patient, over and above the use of the traditional-type syringes and safety controls currently employed? If so, which safety-engineered syringes provide the highest level of protection available?

Sawyer's research will include: a review of needle stick injuries in dentistry, with an emphasis on when such injuries occur (e.g., capping and recapping vs. accidental injury due to abrupt patient movement); a review of reported

transmission rates of infectious diseases to dental health care personnel following needle stick injuries (assessing the risk of disease transmission); a review of available information from manufacturers and independent testing agencies relating to safety-engineered needles; and a review of the regulations for, and experiences with, the use of safety-engineered syringes in other dental jurisdictions.

Furthermore, Sawyer's research will clinically assess and compare conventional syringes and recapping techniques to currently available safety-engineered syringes. The intent is to determine which system is best perceived by clinicians to help prevent needle stick injuries.

Assessments will be performed by beginning dental students who have no experience with either system, novice dental students who have less than two years experience with conventional syringes, and experienced dental practitioners who have more than two years of clinical experience with conventional syringes.



A traditional local anaesthetic syringe (L) and a safety-engineered, self-recapping syringe.

## Dental Distributer Donates to UBC Dentistry's International Programs



Dr. Christopher Zed (C) receives a cheque from Red Barnes and Susan Trask, both from Henry Schein Inc.

The British Columbia office of Henry Schein Inc., a worldwide distributor of health care products, has presented UBC Dentistry with a \$20,000 donation. The money will establish the Henry Schein (BC) International Dental Outreach Fund, which will support ongoing international dentistry program initiatives. These include sending UBC dental teams to Southeast Asia.

The UBC team focuses on the long-term impact of its collaboration with local health care or educational institutions in the host country. Through developing oral health programs for patients and sharing its expertise with local peers (doctors, dentists, nurses), the UBC team advances the knowledge of the community, with the primary goal of improving the quality of daily life.

Red Barnes, general manager of Henry Schein's BC zone, was looking for a different kind of giving. "Typically, distributors would donate supplies to outreach programs," he says, "but that's short-lived. We were looking to give something more. By supporting students in their international outreach, we are helping them to become better dentists here at home and also to leave something very good, very lasting actually, in the host country."

Dr. Christopher Zed, associate dean, Strategic and External Affairs, and head, Postgraduate and Hospital Programs, explains, "True aid is the sustainable piece—the transfer of knowledge into a local resources plan—and we are very pleased that Henry Schein supports our successful model."

Barnes believes that Zed and his dental team make a lasting difference. "We hope to continue this support in the future," he says.

## Updates from BOLD—The Bureau of Legal Dentistry

Over the past year, our communities have been faced with an unprecedented number of murders involving firearms. With its campaign to acquire miniSTR DNA analysis equipment, the Bureau of Legal Dentistry (BOLD) is looking forward to focusing on much smaller fragments of DNA. This will allow more effective analysis of degraded samples, such as minute quantities of DNA from fingerprints on firearm shell casings found at murder scenes.

In other BOLD news, the lab has recently been involved with two cases that have garnered high-profile attention worldwide: the Pickton murder trial and the "Mad Trapper" case.

BOLD provided key evidence analysis in Canada's largest serial murder case, the Robert Pickton murder trial. Dr. David Sweet

OC testified at the trials, which involved 26 counts of first-degree murder. Many new and sophisticated forensic identification and analysis methods were employed by BOLD staff during the investigation. Victim identification through dental records, and cryogenic preparation of teeth, bones and bone fragments for DNA analysis, were pivotal.

The story of the Mad Trapper of Rat River started in the North West Territories in the harsh winter of 1932. A 49-day RCMP manhunt involving 40 men with dog teams was launched to find a fugitive. It ended in a violent shootout on the frozen Eagle River. The identity of the man, who killed three police officers, has remained a mystery, but exhumation of the criminal's body and analysis of samples at the BOLD lab will now help reveal the identity of the mysterious fugitive.

The Discovery Channel produced and aired a documentary, *Hunt for the Mad Trapper*, about

the notorious outlaw. For more details about this film, including information about the BOLD forensic team as well as airing times, visit [www.discoverychannel.ca/showpage.aspx?sid=16335](http://www.discoverychannel.ca/showpage.aspx?sid=16335).



Dr. David Sweet OC (L) and other team members exhume the body of the Mad Trapper of Rat River.

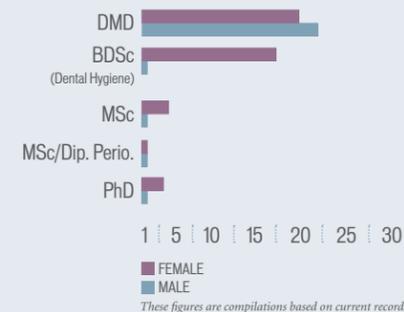
## Faculty of Dentistry Awards and Recognition in 2008 - 2009

RECIPIENT	AWARD/RECOGNITION
Luciane Costa, Visiting Professor, and co-authors: Jolanta Aleksejuniene, Assistant Professor; Reza Nouri, part-time clinical faculty; Anita Gartner, part-time clinical faculty	Foundation Research Award, Healthy Smiles, Healthy Children Foundation of the American Academy of Pediatric Dentistry (AAPD)
Dr. Alan A. Lowe, Professor and Chair, Division of Orthodontics	4th Meier-Ewert Award, German Society of Dental Sleep Medicine (DGZS)
Dr. Michael I. MacEntee, Professor of Prosthodontics and Dental Geriatrics, ELDERS Research Group	Distinguished Scientist Award for Geriatric Oral Research, International Association of Dental Research
Dr. Edwin H. K. Yen, Professor of Orthodontics and Dean Emeritus	Honorary Alumnus Award, University of British Columbia, Alumni Affairs
Ajit Auluck, PhD candidate	Best poster award for epidemiology and population health in 2008 for "Incidence trends of oral cancer among South Asians and general population in BC" (Auluck A, Poh C, Zhang L, Bottorff J, Hislop G, Rosin M), British Columbia Cancer Agency
Leeann Donnelly, PhD candidate	Awarded to attend the 19th World Congress of Gerontology and Geriatrics, Paris, France, July 2009, BC Network for Aging Research  2008 Data Collection Award, BC Network for Aging Research
Bruce Wallace, PhD candidate	Pacific Century Graduate Scholarship (selected through the annual University Graduate Fellowship (UGF) competition), University of British Columbia
Yanshuang (Cheery) Xie, PhD candidate	Skin Research Training Award, Canadian Institutes of Health Research
Darlene Tam, MSc (Dental Science) candidate	CDHA Health Promotion Prize 2008 in participation with Crest Oral-B (Clinic Team Category), Canadian Dental Hygienists' Association  CDHA Oral Cancer Awareness Prize 2008 in participation with LED Dental Inc., Canadian Dental Hygienists' Association  2009 Frederick Banting and Charles Best Canada Graduate Scholarships—Master's Awards, administered by Canadian Institutes of Health Research
Janice Duong, DMD 2010 candidate	Selected to represent UBC Dentistry at the Annual Meeting of the American Dental Association's 45th Annual Dental Students' Conference on Research, May 2009, Gaithersburg, Maryland
Yen Chen Kevin Ko, DMD 2011 candidate	Second Prize—Predoctoral Dental Student Merit Award for Outstanding Achievement in Community Dentistry, American Association for Public Health Dentistry
Kevin Chien-Hsun Lee, DMD 2011 candidate	First Prize—Table Clinic Competition, Canadian Dental Association/Dentsply. Kevin will now represent Canada, and UBC Dentistry, at the Table Clinic Competition of the 2009 Annual Meeting of the American Dental Association in Hawaii at the end of September.

Visit [dentistry.ubc.ca](http://dentistry.ubc.ca) for news updates.

## Graduation Class 2009

May 26, 2009, marked the 41st class of graduates from UBC Dentistry. This year, 69 people graduated across all programs. Here is a look at the numbers:



# Planning for Success: UBC DENTISTRY'S STRATEGIC PLAN

BY JOHN VIGNA

Over the course of nearly half a century, there have been remarkable changes in the Faculty of Dentistry at UBC. These changes have advanced oral health in British Columbia, Canada and around the world. The Faculty has also served the disadvantaged in BC and abroad, advanced research internationally and prepared to continue making significant contributions to the dental profession's ever expanding body of knowledge.

The Faculty's strong track record to date might lead to questions regarding the need for a strategic plan. Why would the faculty, students, staff, alumni and stakeholders spend nearly two years working on a new strategic plan? Simply put, a strategic plan, which is a guide for the future that includes all stakeholders, will ensure the continuation of the Faculty's role as a world leader in oral health.

The new Strategic Plan establishes priorities for the next five to seven years that will allow a productive focus of the Faculty's specific activities and achievement of identified goals. The Plan builds on the fact that the Faculty is already well prepared to continue making significant contributions to the dental profession's body of knowledge through active faculty research, outstanding curriculum and a commitment to community service.

In order to better appreciate the Strategic Plan and the potential outcomes, it is vital to dig deeper and understand how and why the Plan came into existence.

## STRATEGIC GOALS

- 01 Faculty and staff model the Core Values of the Faculty of Dentistry as per our Guiding Principles.
- 02 Accept and graduate students who share Faculty of Dentistry Core Values as per our Guiding Principles.
- 03 All undergraduate, graduate and post-graduate programs meet the highest standards of excellence and reflect community demands.
- 04 Encourage greater connection between UBC and the external community, including the university, organized dentistry and dental hygiene, practising dentists and dental hygienists, and the greater communities of Vancouver and the province.
- 05 Develop multi-site clinical learning environments to optimize learning opportunities, better serve disadvantaged population groups and recruit the best students from all sectors of BC.
- 06 Expand the international presence at UBC and UBC's presence globally.
- 07 Develop and maintain outstanding facilities to support students through their programs in dentistry.
- 08 Increase research capacity.
- 09 Develop graduate programs.
- 10 Develop research support.

# A NEW DIRECTION

Planning for the future is an important academic process. UBC president Stephen Toope is leading this process campus-wide so that everyone develops an understanding about the direction in which UBC is heading. It is important that the entire university moves forward in a coordinated way and that the Faculty of Dentistry is aligned with the UBC objectives. Dean Shuler initiated the process in the Faculty of Dentistry soon after becoming dean in April 2007.

“Historically, we’ve always had a strategic plan,” says Dr. Christopher Zed, associate dean for Strategy and External Development. “Every faculty is required to have one to help explain to the public what UBC is doing. But the dean came with a different strategic vision than we had before. He wanted the strategic plan to be more operational.”

One of the challenges Dean Shuler inherited was that the existing strategic plan was composed primarily of a series of different goals that were loosely coordinated, which is not uncommon in most strategic plans. But more importantly, the dean recognized that

sits unused in a drawer because achievement of the goals was not established by developing an operational plan.”

“I went through the strategic plan that had been created before I arrived at UBC and found that the numerous short goals coalesced around three main themes: *enhancing the student experience, amplifying research productivity and increasing community involvement*,” he says. “There’s tremendous overlap between the three themes, but all of them relate to the fundamental goals of the Faculty and university. After identifying these three themes, the four associate deans went through the previous strategic plan, linking the original goals with one or more of the themes. To address the three main themes, overlaps between goals were found and new goals were identified to fill gaps that existed. The result was that some of the previous goals were more clearly emphasized and new ones began to emerge.”

Understandably, the associate deans had many high-level, broad goals after reviewing the former strategic plan. In narrowing their list, they

Eventually, the wide list of goals was narrowed down to ten strategic goals. Each goal consisted of a set of elements, including the specific goal statement, the rationale for the importance of this goal to the Faculty of Dentistry, the enabling activities that would be required to achieve the goal, the resource/budget requirements for the goal, a plan for assessing outcomes, and both interim and ultimate benchmarks. The draft of the ten strategic goals was then presented to the Appointments, Budget and Planning Committee for input and revision. The revised goals were opened up to faculty consultation in the autumn of 2008.

In over a dozen meetings, the Faculty spent time discussing and revising the draft strategic goals to focus the objectives and ensure that the necessary enabling activities were recognized, that appropriate benchmarks were identified and assessment metrics established. In January 2009, the new strategic plan was presented in numerous meetings to the important Faculty stakeholder groups—including students, staff, part-time faculty, alumni and members of the profession—for consultation and critique. The plan has been

towards the goals has simply been a coincidence. The result is that resources have not been efficiently allocated and opportunities are missed.”

Shuler adds, “There were two main challenges for all of us involved in completing the strategic plan: the identification of the benchmarks and the establishment of assessment metrics to measure progress towards the benchmarks. These are critical to ensure that we know where we want to be in five to seven years and plan accordingly. Most of us had experienced strategic planning processes that were more

visionary than aiming for specific targets. So we had to come up with clear definitions about what we were going to do and what we were not going to do. In the end, we had to go through an enormous cultural shift to get there.”

The Strategic Plan, which began in autumn 2007, is operational today and will help guide the Faculty in determining how they allocate their resources and set budgets for five to seven years. It will be incorporated as part of the overall UBC Strategic Plan and, in fact, the process followed by the Faculty of Dentistry has been adopted by UBC as

the university’s Strategic Plan is being completed.

“One clear thing emerged from the process: a well-defined strategic plan would be transparent and allow everyone to see how they contribute to the achievement of the goals. The plan would allow us all to be on the same page and would provide us with a touchstone to guide us in all that we do, so we know where we are going,” says Shuler. “That way, everyone can take pride in the Faculty goals and feel as if they are important to their achievement.”

## Enhancing THE STUDENT EXPERIENCE



“The most important thing we do is teach students,” says Zed. “We want to give them the best possible education. The students have to have an experience above and beyond, relative to other choices. But to provide this, we need to have a strong triad: great educators, leading-edge researchers and highly skilled clinicians. This is what supports ‘enhancing the student experience.’ This is what produces a great learning environment for students. How do we deliver that experience? Through translational research that comes out of the labs, the classroom experience, community work and clinical experiences to name just a few.

For example, if a student works in Vancouver’s Downtown Eastside in the morning and then comes to work in the main clinic at our Point Grey campus in the afternoon, they have the rich experience of working with a wide range of community members. That will only enhance their learning experience.”

A major consideration in determining the metrics and benchmarks for the strategic plan revolves around the student experience. Exceptional programs are self-perpetuating—they attract top applicants and faculty, and then offer students an unparalleled experience

during their time in the program. Graduates of top programs are often recognized throughout the professional community, further enhancing the reputation of the Faculty. A strategic plan supports and reinforces the curriculum, patient care, research programs and patterns of behaviour of all students, staff and faculty, creating an environment of collegiality. This enhances the student experience in a myriad of ways, including creating tomorrow’s leaders.

“One of the most challenging aspects of excellent dental education is providing authentic assessment, ensuring that students meet the



*“We sought content that was truly reflective of the Faculty from the three main themes,” says Zed. “We focused on the core content and stripped out the verbiage and condensed it into what and why, how do we measure it, and does it mean anything today?”*

the achievement of these goals needed to be defined by specific benchmarks to clarify explicitly what must be achieved to reach each goal. Benchmarks also require the development of assessment metrics that can be evaluated to measure progress towards the goal.

“The development of a strategic plan often requires an enormous effort on the part of numerous individuals in the faculty,” says Shuler. “Yet, after the plan is completed, it often

considered what could apply today and what could be applied in the future, and in determining the value of the goals, they asked how each goal related to others and whether there were any crossovers.

“We sought content that was truly reflective of the Faculty from the three main themes,” says Zed. “We focused on the core content and stripped out the verbiage and condensed it into what and why, how do we measure it, and does it mean anything today?”

refined through nearly 30 face-to-face meetings and through discussion in an online forum.

“Our goal with the strategic plan was to develop a direction for the future that was understood by the people in our Faculty and resulted in intentional progress towards the goals. This will allow us to focus our energy and resources on these goals,” says Shuler. “Unfortunately, with many strategic plans, the review of achievement only occurs after several years, and progress

PHOTO BY BRUCE MCCAUGHEY



*“One of the most challenging aspects of excellent dental education is providing authentic assessment, ensuring that students meet the stated standards of the program, but also providing them with constructive feedback about how they are doing,” says Dr. Joanne Walton.*

PHOTO BY BRUCE MCCAUGHEY · PHOTOS BY TERRY WINTONIK

stated standards of the program, but also providing them with constructive feedback about how they are doing,” says Dr. Joanne Walton, associate dean, Academic and Student Affairs.

“We are interested in learning more about assessment best practices and tools. Beginning with a series of faculty ‘teaching suppers’ with eminent educators to guide us, we will reflect on how we are assessing students in the knowledge, clinical skills and professionalism domains, where we might consider development, and how we can match the quality of our student assessment with the quality of our innovative programs.”

Mentorship is a key part of enhancing the student experience. Mentorship seeks to establish long-term, one-on-one relationships between future graduates and practising dental professionals. For the young graduate, entering the dental profession can be a daunting

experience, and mentors can be a valuable resource. Career guidance, learning about being an associate versus an owner, and coaching in practice management are common themes in mentorship programs. Collaborations with the British Columbia Dental Association and the Study Club Alliance are opening many new opportunities for members of the profession to help mentor dental students and aid them in their transition from dental school to dental practice.

“One of my goals as a clinical instructor is to motivate students,” says Dr. Maria Garcia Fulle de Owen, clinical assistant professor. “As mentors, we can encourage students to meet the highest standards of excellence in their clinical practice while helping them provide patients with the best dental treatment. This connection between instructors and students is the most important factor in our job as

mentors.” Faculty mentoring behaviour also leads students to become peer mentors, further emphasizing this role.

“What motivates me to be a leader is the satisfaction of moving ideas forward and getting things accomplished,” says second-year dental hygiene student Priscilla Ojeda, founding president of the Dental Hygiene Class of 2011. Priscilla also represents her class in the Dental Undergraduate Society, a collaborative society that links dental and dental hygiene students together. “I intend to continue assisting the incoming students in my program by paving the way as the pioneer; by unifying my program with the other programs in the Faculty, as well as connecting them with the broader UBC community,” she says. “I want to contribute to others what hadn’t yet been developed for me.”

## Amplifying RESEARCH PRODUCTIVITY



*“The Strategic Plan gives the Faculty specific directions that we, and the greater community, see as important,” says Putnins.*

The Strategic Plan takes into account that UBC is a major research-intensive university. Therefore, there is an expectation that all faculties will have an emphasis on original research in their portfolio of activities. This expectation, “the generation of new knowledge,” is a critical area of accomplishment for all faculty members who are reviewed for tenure and promotion. Thus it is critical for the Strategic Plan to ensure that a firm foundation for continued excellence in research is recognized and supported by a diversity of research (basic science, population health and clinical trials) being done within the Faculty of Dentistry.

“Research and graduate studies are targeted in the Strategic Plan and are very specific,” says Dr. Edward Putnins, associate dean of Research, Graduate and Postgraduate Studies. “Our challenge in putting the Plan together was to determine what is required to most effectively

support a diverse Faculty. How do we measure it? Increasing research capacity will be assessed by multiple measures that could include more research-active faculty, more research space, more grants, more high-impact publications and greater research eminence.”

The high level of research activity will also help address the recognized shortage of dental and dental hygiene academics. It is critical to prepare the next generation of dental faculty members with training at the PhD, clinical specialty or combined levels. The development of these programs will achieve the long-term goals of dental academic institutions and help students who are interested in developing a balanced academic career of research, service and teaching.

Expansion of specialty programs to encompass all recognized disciplines will also enable more complex delivery of treatment and will support

the clinical educational continuum such that undergraduate students will be able to observe a full range of treatment provided to patients with complex craniofacial disorders. The dental specialty programs represent a critical intersection for new research knowledge and translation of that knowledge to improvements in patient outcomes.

“The Strategic Plan gives the Faculty specific directions that we, and the greater community, see as important,” says Putnins. “The Plan is interrelated and interactive. It helps the community understand how all the pieces fit together so that everyone is more inclined to support it. The biggest challenge in the process was to make sure the final document included the diversity of the research being done in the Faculty. For the Plan to be of lasting, real value, every faculty member should be able to read it and see parts they relate to, parts where they see themselves fitting in.”

## Increasing COMMUNITY INVOLVEMENT

Putting together the Strategic Plan involved a significant collegial process, one in which each faculty member, student, staff, alumni and stakeholder found goals that they could relate to and contribute additional comments to. The more feedback there was, the richer the ideas. The richer the ideas, the more inclusive and visionary the strategic plan became.

“From a community perspective, it was wonderful to realize how many economies there are within the Faculty,” says Zed. “We ended up merging some of our goals through this realization. Even though we all work together every day, we don’t always understand what our colleagues do and what significant experiences and skills they all bring to the Faculty. The strategic plan process helped us understand and better appreciate one another. Without a doubt, ‘community’ was the most collaborative part of the plan.”

The Faculty continually expands its offerings, such as a symposium on digital learning that facilitates collaborations among dental personnel throughout Canada and California, and a pediatric dentistry program. Programs such as these provide resources to the community and enhance the Faculty’s reputation as a centre of not only educational and research excellence, but also of clinical excellence throughout BC, Canada and internationally.

“One of the things I’m most excited about in the Plan is that I’ve been able to strike a community advisory committee with members from across the community,” says Zed. “We are looking at community programs and how we may serve as a resource the community goes to for oral health care. By working as a committee, we are able to have a better around-the-table discussion and work more effectively, more broadly. We owe this to the strategic plan process.”

Service learning and cultural competency are rapidly emerging and developing concepts in dental and dental hygiene education. Important outcomes from these experiences include student recognition of their responsibility to provide care to people in need, social awareness and professional responsibility. More off-campus sites for current and future students will increase the diversity of patients treated by the students and enhance students’ understanding of the range of oral health needs presented by individuals with limited access to care.

“One goal is to be of service to families and individuals who work or attend school on weekdays,” says professor Bonnie Craig, director of the Dental Hygiene Degree Program at UBC Dentistry.

“We want students to develop increased social responsibility and a commitment to community service, and to do so they need to experience a diverse patient population. One way to achieve this is by reaching out to address some of the unmet needs of the community—those whose life circumstances may prevent them from coming during regular business hours.”

Trevor Lake, a member of the Class of 2009, had an opportunity to complete an externship in Haida Gwaii (Queen Charlotte Islands) last summer. “This experience felt like we were finally putting the things we had learned at UBC into action,” he says.

Lake felt his externship was a natural continuation of his education; one that he says has ultimately shaped the way he intends to practise in the future. “One of the main reasons I got into dentistry is that I wanted to be able to provide health care to people in need. My experience confirmed that it is always important to stay true to your values and remember that the core goal of our profession is to improve the oral health of all members of our society. My time in Haida Gwaii also reinforced my plans to practise dentistry in a rural community.”

## Looking TO THE FUTURE



*“Through the intensive collaborative process, the Faculty has undergone a cultural shift to the point where the Strategic Plan is now linked to our activities in recruitment, renovation, budget allocation and new program development,” says Shuler.*

“The Strategic Plan is now in effect,” says Dean Shuler. “We can point back to the Plan and rely on it as support for our goals and objectives, and in doing so, we can see where and how we fit into the whole.”

During the last two years, the process of strategic planning has further strengthened the ties between the Faculty and their alumni, external partners, current and future students.

“Through the intensive collaborative process, the Faculty has undergone a cultural shift to the point where the Strategic Plan is now linked to our activities in recruitment, renovation, budget allocation and new program development,” says Shuler.

“We all have ownership and responsibility in it, and we should be held accountable for those responsibilities.”

By presenting shared beliefs about where they are headed, the Faculty has created a collaborative road map that is conceptual, directional and, most importantly, operational, to lead them into the next decade.

The complete Faculty of Dentistry Strategic Plan and its Guiding Principles are available online at [www.dentistry.ubc.ca/strategicplan](http://www.dentistry.ubc.ca/strategicplan).

## Guiding PRINCIPLES

### MISSION

To advance oral health through outstanding education, research and community service.

### OPERATIONAL GOAL

To develop an exceptional Faculty of Dentistry at UBC worthy of enthusiastic support by our customers and partners.

### ESSENTIAL CUSTOMERS AND PARTNERS

- Students
- Faculty and Staff
- UBC Community
- Alumni
- Patients, Public, Community
- Funders, Donors
- Related Health Organizations
- Teaching Agencies
- Research Agencies
- Related Professional Organizations
- Related Industry

### ULTIMATE RESULTS SOUGHT

- Well-educated graduates who are ably prepared to meet the oral health and science needs of their communities.
- Innovative research that has a positive impact on oral health science, education and patient care.
- Enthusiastic customers and partners who want to join and support our efforts.

### CORE IDEAS

*for the successful achievement of Ultimate Results Sought*

- Provide exceptional undergraduate education.
- Offer high-quality graduate and post-graduate programs.
- Develop research capacity through collaboration, concentration and career development.
- Offer relevant continuing dental education.
- Conduct timely and effective communication with all of our customer groups.
- Cultivate a diversified funding base to support the Faculty.
- Define and monitor results.
- Support individual enterprise while fostering collaboration.

### CORE VALUES

*that support our Core Ideas*

- Exemplary professionalism (teaching, clinical care, research, administration).
- Mindful service to our customers and partners.
- Shared responsibility for the faculty's welfare and financial health.
- Thoughtful, timely communication.
- High degree of collaboration, partnership and dialogue.
- Results-oriented efforts (appropriate planning, methodology and evaluation).



# GRAD STUDENT HONoured

## FOR WORK IN DOWNTOWN EASTSIDE

BY TERRY WINTONYK

Darlene Tam grew up in the Downtown Eastside (DTES)—in Chinatown. As a returning resident, she feels a deep responsibility to strive for improvement in the lives of the people in this community. She knows that the disparities in health and standard of living between many of the area's residents and those of the rest of Vancouver are appalling.

Darlene recently returned from Toronto, where she was a registered dental hygienist and an undergraduate student completing UBC's online Bachelor of Dental Science in Dental Hygiene program. She has now started a Master of Science in Dental Science program at her alma mater. This next step in her education will give her the career flexibility and tools she wants to effect change in her community. But Darlene is already making change happen.

Darlene's understanding of Vancouver's oldest and most impoverished neighbourhood and its hard-to-reach and medically underserved community informs her graduate work. She is focusing on the Downtown Eastside's high-risk population for oral cancer. In addition to her regular involvement with the Portland Community Dental Clinic as part of her master's work, Darlene volunteers for oral cancer prevention initiatives at DTES events.

At the Alley Health Fair, organized by the Carnegie branch of the Vancouver Public Library, Darlene participated with a mobile outreach team to promote oral cancer awareness. The mobile team set up an

information table under a tent in the normally squalid alley behind the Carnegie Community Centre at Main and Hastings streets. Many referrals were made for follow-up screenings at the Portland Community Dental Clinic. For this creative promotion of dental hygiene, education and community impact, Darlene and the team won the Canadian Dental Hygienists' Association CDHA Oral Health Promotion Prize 2008 in the clinic team category.

At the SUCCESS Senior Health Fair, the outreach team provided free oral cancer screening to the Chinese residents of the DTES. Darlene presented education on smoking, drug and alcohol cessation, as well as on oral cancer awareness and screening services—in both English and Cantonese. Her significant community contribution to increasing awareness of oral cancer and the benefits of early discovery was honoured with the CDHA Innovation in Oral Cancer Awareness Prize 2008.

Darlene, a soft-spoken young woman, insists that her role was minor and that the team effort deserves the accolades. However, it is clear that her compassionate soul guides her. Darlene finds her inspiration through helping people. As a dental hygienist, her satisfaction has been in seeing her patients' smiles and having a hand in their overall health. What better intention could there be for community work than effecting positive changes in people's health?

Coming back to her childhood community was a shock, because she realized that poverty

and vulnerability to drugs and gangs had been around her when she was a child. Darlene now knows she is fortunate to have escaped the inner city traps. She acknowledges that "everyone is vulnerable and can fall into cracks." To explain the motivation behind her graduate work, she says: "The added stress of an oral cancer diagnosis would compound an already unfortunate situation, so efforts must be made for its prevention."

Darlene's efforts continue to be noticed. She recently won a 2009 Frederick Banting and Charles Best Canada Graduate Scholarships—Master's Award, which is administered by the Canadian Institutes of Health Research. Recipients are expected to have an exceptionally high potential for future research achievement and productivity. Darlene will no doubt exceed this expectation as she continues to serve the community she loves.

### Mobile Outreach Team Volunteer Members

- Kevin Ko DMD 2011 candidate
- Amy Kung DMD 2010 candidate
- Lorna Lee
- Dr. Samson Ng
- Dr. Catherine F. Poh
- Darlene Tam MSc (DSc) candidate
- April Wang DMD 2011 candidate

PHOTO BY TERRY WINTONYK

# MOVING TO THE FOREFRONT OF BIOIMAGING A NEW HIGH-THROUGHPUT CENTRE AT UBC DENTISTRY

BY TERRY WINTONYK

*UBC Dentistry has just been awarded a multi-million dollar government grant—one of the largest it's ever received—to expand its bioimaging infrastructure.*

The UBC Faculty of Dentistry, renowned for its hard tissue imaging and analysis expertise, has just been awarded a multi-million dollar government grant—one of the largest it's ever received—to expand its bioimaging infrastructure. With this capital boost, Dentistry's Microscopy Imaging Centre is poised to provide UBC researchers, across dentistry, medicine, science and engineering as well as other universities and private companies, with rapid data results in a soon-to-be-expanded state-of-the-art core facility. This facility will integrate imaging and molecular information across the spectrum, from the molecular level (DNA, RNA and protein) through the microscopic (electron-, laser- and light-microscopic) to the macroscopic level (computed tomography and morphological scanning), and will allow quantitative analysis of form.

Dr. Edward Putnins, professor and associate dean of Research, Graduate and Postgraduate Studies, was anxious to upgrade the aging equipment in the imaging centre. Putnins, however, saw potential beyond securing new equipment: "We believe the greatest

scientific advances will occur through collaborations between scientists that cross traditional research boundaries but exhibit complementary expertise."

Putnins knew the winning strength of the grant application would be his co-applicants, the principal investigators: a unique assembly of top researchers, drawn from multiple disciplines (see page 21). The research personnel represent the UBC faculties of Dentistry, Medicine and Pharmacy, as well as the Centre for Biomedical Research. It is this vision that won—in a Canada-wide competition—federal and matching provincial funding to support the \$9.4 million project.

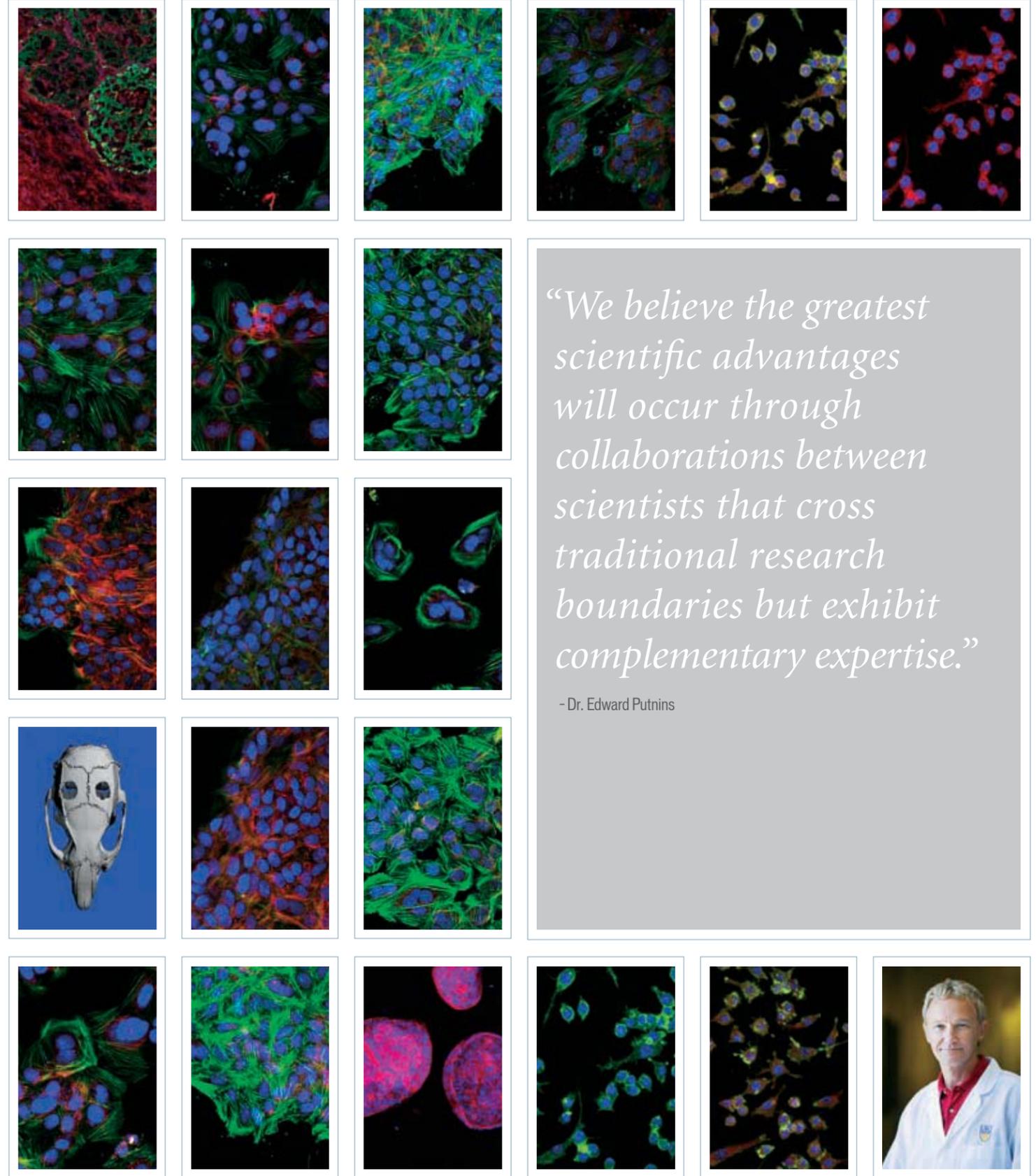
According to Putnins, bringing together some of the university's best and brightest researchers to study the development, diseases and regeneration of bone is, at present, not happening anywhere else in Canada. Having all the scientists and a cutting-edge facility (expected to open early in 2011) at the same location will not only enhance research collaborations, but will accelerate the development of new treatment strategies.

This will help millions of Canadians manage degenerative bone diseases and developmental bone deformities of both the skeletal and craniofacial bones—problems that have extremely high incidences in the Canadian population.

Ten principal investigators organized in two complementary research clusters have been integrated into the centre. One cluster is focused on bone-destructive diseases, while the other is focused on bone developmental biology. With the new equipment, the researchers will be able to achieve a much higher-quality analysis of structural changes in bone tissue on molecular, cellular and anatomic scales.

The impact on bone of new therapies will be evaluated in a "high-throughput" manner—that is, high-volume data analysis will provide faster results for more researchers. The centre—soon to be known as the Centre for High-Throughput Phenogenomics—will operate 24 hours per day, seven days per week, accelerating the rate at which regulators of disease can be identified and the efficacy of potential drug therapies evaluated.

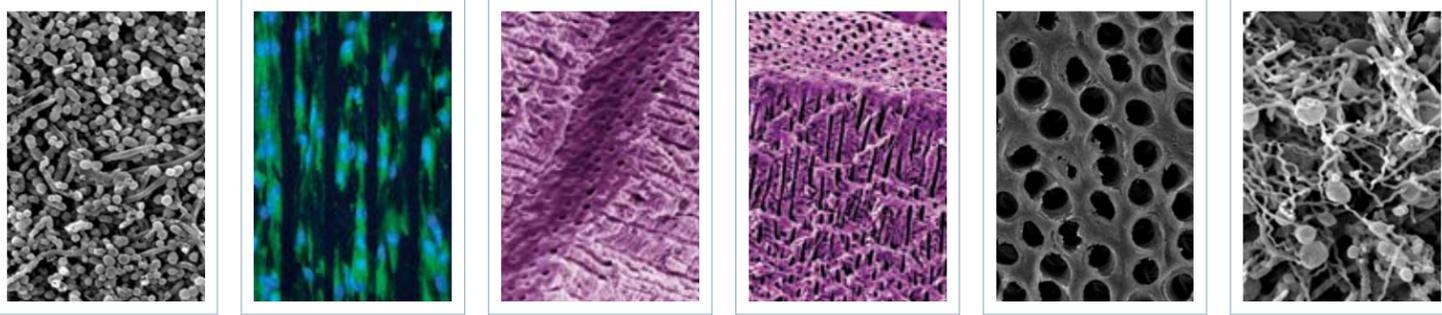
PHOTO BY MARTIN DEE · PHOTOS COURTESY OF ANDRE WONG



*"We believe the greatest scientific advantages will occur through collaborations between scientists that cross traditional research boundaries but exhibit complementary expertise."*

- Dr. Edward Putnins





### Bone-Destructive Diseases

Periodontal disease and other bone-destructive diseases such as arthritis degrade quality of life and consume precious and significant public and private health care dollars. Arthritis causes loss of mobility and severe chronic joint pain. Periodontal disease can also cause chronic pain as well as significant loss of teeth, resulting in difficulty with chewing. Furthermore, recent evidence suggests that chronic periodontal diseases may predispose or worsen coronary heart disease.

The first step in developing new therapies for preventing and regenerating lost bone is to determine the biological basis of tissue destruction. The identification of protein expression profiles within tissues of interest, using the new centre's state-of-the-art imaging techniques, will provide a valuable set of targets for developing and evaluating inhibitors. (See page 21 for expansion features.)

### Bone Developmental Biology

This research cluster will investigate the defining, critical events in two distinctly different bone developmental mechanisms: skeletal bone (axial) and bones of the face (craniofacial). This will provide insights necessary for developing approaches to repair and regenerate axial and craniofacial bone. A parallel focus of this cluster is reactivating developmental signalling pathways so that stem cells seeded onto novel synthetic scaffolds can be more effectively used to regenerate hard tissues lost due to disease or developmental abnormalities.

One example of a developmental malformation that alters the program of development of craniofacial bones is cleft lip and/or cleft palate. Cleft lip/palate is a common birth defect, with an occurrence of one in 700 live births in Canada, and a higher incidence of up to one in 250 live births in First Nations people. The failure of proper development of the craniofacial structures creates numerous functional, social and behavioural challenges for the affected individuals. Economically, treatment for cleft lip/palate includes direct medical costs for several surgeries, oral rehabilitation and speech therapies, as well as indirect costs such as lost income to families and patients.

Soft tissue closure of a cleft palate is achieved surgically, but bone defects may persist, resulting in long-term facial developmental complications. Managing cleft lip/palate by regenerating bone formation is a potential outcome from the research cluster focused on bone developmental biology. Success in this therapy would have a dramatic impact on quality of life for many Canadians.

### Faster Data Analysis Leads to Faster Development of Innovative Treatments

Knowledge translation is best described as a process that closes the gap between what is known and what is currently done in health and dental care practice settings. The new centre's high-throughput processes accelerate the evaluation of potential new therapies—in this case, therapies that could limit bone destruction and/or augment bone formation.

Many of the principal investigators work with key organizations involved in knowledge translation: the University-Industry Liaison Office, which facilitates the exchange of knowledge between UBC researchers, industry and the community; and the Centre for Drug Research and Development, which guides early-stage discoveries through pre-clinical drug trials. The investigators' experience with these organizations improves not only the potential for successful knowledge translation, providing health professionals with new treatment options, but will also accelerate the rate at which new solutions will be achieved to help Canadians with bone health challenges.

This assembly of top researchers, their culture of multidisciplinary collaboration, and the federal and provincial governments' commitment to fund Dentistry's endeavours will generate new insights about bone development and disease pathogenesis and develop new strategies to regenerate lost hard tissues. Establishing this high-throughput phenogenomics centre to support this cutting-edge research will help attract the brightest, most highly qualified domestic and international faculty, graduate students and scientific researchers. The next generation of clinical approaches to benefit patients is ensured. Canada and UBC will be in the vanguard of training the next generation of scientists able to successfully compete for national and international research funding.

PHOTOS COURTESY OF ANDRE WONG

### Expansion of the Bioimaging Facility

Dentistry's Microscopy Imaging Centre is equipped with tissue preparation equipment; light, fluorescence, laser confocal, transmission and scanning electron microscopes; and a Zeiss PALM laser capture microdissection system. Funding will replace outdated ultramicrotomy, transmission and scanning electron microscopy systems.

New equipment will be optimized for quantitative, high-throughput hard tissue analysis and applied to the analysis of in vivo bone destruction, development and regeneration. Expansion features of the future high-throughput phenogenomics centre include:

- 3D imaging equipment including: a) optical projection tomography (OPT) scanner, b) high resolution, high-throughput specimen micro CT scanner, c) in vivo micro CT for rats, mice and rabbits, and d) large-scale specimen in vivo scanner.
- A MALDI LTQ Orbitrap tandem mass spectrometer, which will allow 3D characterizations of specific protein production patterns with respect to disease, development or tissue regeneration.
- Computer and software infrastructure to manage and analyze the large volumes of primary and secondary data.
- New facilities for short-term stay (<24 hr) of experimental animals.
- A 3,000 sq. ft. renovation to the third floor of the John B. Macdonald Building to accommodate equipment and scientific functions.

### The Principal Investigators

Dieter Brömme, Professor, Department of Oral Biological and Medical Sciences, Faculty of Dentistry; Associate Member, Department of Biochemistry and Molecular Biology and Centre for Blood Research, Faculty of Medicine; Canada Research Chair in Proteases and Diseases

Helen Burt, Professor and Associate Dean of Research and Graduate Studies, Faculty of Pharmaceutical Sciences; Head, Division of Drug Delivery, Centre for Drug Research and Development

Pieter Cullis, Professor, Department of Biochemistry and Molecular Biology, Faculty of Medicine; Director, Centre for Drug Research and Development

Hannu Larjava, Professor, Department of Oral Biological and Medical Sciences, Faculty of Dentistry

Christopher Overall, Professor, Department of Oral Biological and Medical Sciences, Faculty of Dentistry; Member, Centre for Blood Research and Centre for Drug Research and Development; Associate Member, Department of Biochemistry and Molecular Biology, Faculty of Medicine; Canada Research Chair in Metalloproteinase Proteomics and Systems Biology

Edward Putnins, Professor, Department of Oral Biological and Medical Sciences; Associate Dean of Research, Graduate and Postgraduate Studies, Faculty of Dentistry

Joy Richman, Professor, Department of Oral Health Sciences, Faculty of Dentistry; Associate Member, Department of Cellular and Physiological Sciences, Faculty of Medicine

Fabio Rossi, Associate Professor, Biomedical Research Centre, Department of Medical Genetics, Faculty of Medicine

Charles Shuler, Professor, Department of Oral Biological and Medical Sciences; Dean, Faculty of Dentistry

T. Michael Underhill, Associate Professor, Biomedical Research Centre, Department of Cellular and Physiological Sciences, Faculty of Medicine; Division Head, Target Validation, Centre for Drug Research and Development

### Funders

- Canada Foundation for Innovation (CFI), an independent corporation created by the Government of Canada to fund research infrastructure
- British Columbia Knowledge Development Fund (BCKDF), which helps public post-secondary institutions, teaching hospitals and affiliated non-profit research agencies to invest in research infrastructure

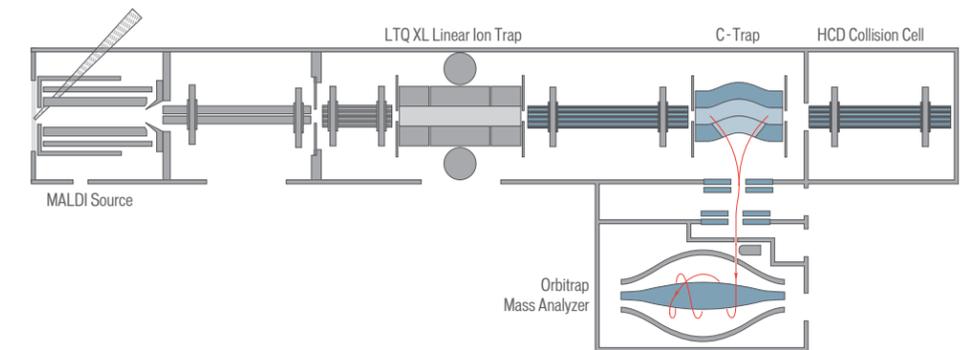
### Phenogenomics Primer

Bioimaging – scientific methods that examine the structure and biological function of hard and soft tissues at the macroscopic and microscopic levels using a myriad of imaging technologies

Phenotype – the outcome of gene expression

Genomics – study of the genomes, or DNA sequences, of organisms

Phenogenomics – analysis of the change to biological form and function that is associated with altered gene expression



# VOLUNTEER DENTISTRY IN THE DOWNTOWN EASTSIDE

## DMD STUDENTS RISE TO THE CHALLENGES

BY TERRY WINTONYK

*“Many people coming to this clinic in the Downtown Eastside do not have faith in health care providers. I remember one patient whose interaction with students helped him gain trust. There’s no judgment around; students left their worries at the door—I think this empowered him.”*

PHOTO BY MARTINA DODIS

There is an empty shopping cart parked outside a storefront dental clinic on Hastings Street a few blocks east of Main Street. This is the Downtown Eastside (DTES), where open drug use and a gritty sex trade butt against fledgling urban renewal and historic Chinatown. At worst, it is a vortex of Vancouver’s most marginalized people subsisting in hotels and rooming houses or on the streets. Many residents are the working poor, barely able to raise their heads to notice the pressures of gentrification. Most have difficulty accessing medical services, including dentistry.

The storefront dental clinic, operated by the Vancouver Native Health Society (VNHS), provides DTES residents with emergency and preventive dental treatments—free of charge. During the spring 2009 academic year, UBC Dentistry launched its Community Volunteer Clinical Program and operated clinics here on three Saturday mornings. Many students rose to the challenge and volunteered.

### It’s the Weekend—Rise and Shine!

So why would students who are in the thick of studying—and particularly those in upper-level years who are also performing demanding clinic work on campus—volunteer their skills on a Saturday morning?

Then third-year dental student Emery Bland explains that volunteering provides a needed service to the community and is a chance for students to give back with the skills they have learned. He also found it rewarding because of the practical skills he was able to use. “It’s an invaluable perspective while the books and studying are on hold,” he says. He also found this unconventional setting to be less intimidating: “I can’t explain why, but I was less constrained than in the educational setting, like the clinic on campus.”

Janice Duong, then a third-year student, offers her reason: “I volunteered because I wanted to

*see a more unconventional setting. I wanted to experience the unexpected. It was a glimpse of the real world, and I dived in with no fear.”*

Dr. Bruce Ward, a volunteer community dentist, has overseen the dental clinic at the VNHS since 2005. He sees third- and fourth-year dentistry students grow through the experience of being treated as colleagues, operating more freely and calling their own shots. First- and second-year students are enriched by being paired with the senior students in a clinical setting, making dentistry ‘real.’ Ward finds watching the process of the dental student–patient relationship particularly rewarding. As students loosen up, they rise to the challenge of providing treatment and looking past the patients’ personal circumstances.

Cheryle Colombe, then a second-year student, managed patients in the waiting room. She explains that it is a very cooperative environment, with a lot of respect given to patients. “Many people coming to this clinic in the Downtown Eastside do not have faith in health care providers. I remember one patient whose interaction with students helped him gain trust. There’s no judgment around; students left their worries at the door—I think this empowered him.” Then first-year student Scott Martyna remembers a patient who was hesitant to get into the chair: “He needed a tooth extracted and knew there would be blood—and it was neat to see his transition from apprehension to calmness because of the way he was spoken to.”

People who come to the dental clinic in the Downtown Eastside are usually in intense pain. Bland recalls one patient who was “cracked-out” and embarrassed by her condition. “For me, it was a revelation that some people may have no control in their lives, and the experience helped me see every patient in terms of the care he or she needs.”

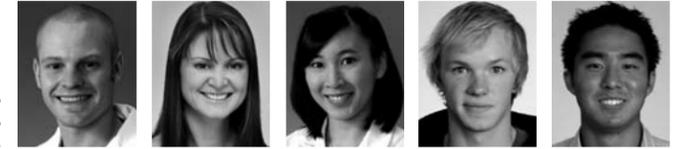
Bland also recalls hearing a community dentist who volunteers at the clinic say that people want to contribute, to pay something even if

it is only a dollar—then the patient feels like he or she deserved treatment. Despite their differences from the patients normally seen at the UBC clinic, DTES residents do understand the student experience. As Martyna notes: “People—the clients—were patient, receptive and trying to participate in the learning. In fact, I heard one say it was ‘really fun.’”

Peter Park, a second-year student last spring who organized many of the clinics, believes that pairing first- and second-year students who have little-to-no clinical experience with third- and fourth-year students who have is a fantastic mentorship model. “This is active involvement, not simply shadowing, and is particularly transformative for first-year students who may experience what it feels like to be a ‘doctor’ for the first time,” he says. Martyna confirms this active involvement: “To see the third- and fourth-year students working on patients was a flash forward to what I’ll be doing; it was fast-paced, learning by doing.” The clinic experience was also good practice for developing his interpersonal skills, which, he says, are important and have a huge outcome on treatment.

Park, who has been to all the volunteer clinics this year, knows that first- and second-year students contributed more than they thought. He explains: “They used their learning quickly, to perform medical interviews with patients and to support the upper-year students who were working on patients by handling and experiencing instruments. There is an enhanced self-perception, even through preparation work like performing a medical interview, because they can understand the implications of each question when working directly with a patient.”

For Duong, the experience brought the patient rather than the procedures into the foreground. “My confidence improved because I did things I’ve never done before [in third-year] like performing a diversity of treatments, but not in a totally structured way like in the school clinic. Seeing results in a patient right away confirmed the learning—the technicalities.”



From left to right: Emery Bland, Cheryle Colombe, Janice Duong, Scott Martyna and Peter Park.

## 8:00 a.m. Saturday Morning

The clinic at the VNHS has three operatories, a radiology room and a disinfecting station; it is equipped like any regular dental office. A typical volunteer clinic day begins at 8:00 a.m. with a brief organizational meeting with Dr. Ward. Appointments are not taken because they are seldom kept; instead, patients walk in and are interviewed. Radiographs are taken; then students and volunteer dentists discuss treatment plans. Supplies and instruments are gathered, and the dental work is performed. Operatories are assiduously sanitized and instruments returned for sterilization. The cycle repeats as a steady flow of patients ensures that everyone is kept on their feet the whole clinic long.

Barnes, who was taking radiographs and performing examinations, says: "It was like having an urgent care rotation for every patient, the whole day." Martyna had jumped right in, knowing he could start "FIFEing"—that is, asking patients about their feelings, ideas, functions and expectations. He notes that the DENT 410 course provided the knowledge and specifics to alleviate any fear of possible health pathogens.

At the end of the morning, the volunteer team comes together and debriefs about the experience. "It was like being on a rowing team; it denied the ego," says Park. "We never felt in the dark, because the community dentists who volunteered understand students and provide a super supportive environment. They really care about the patients too." Reflecting on the day, Colombe said the best feeling came from teamwork, which made everything run smoothly.

## A Desire to Serve

There has been an overwhelming response of students to volunteer. Sadly, student demand exceeds placements. Park is hopeful that volunteer clinics can occur more regularly, even once a month: "I think the enthusiasm and all the ingredients are there." He is optimistic

about the program's long-term goal of seeing students run the Community Volunteer Clinic Program—the whole process, including administration. "Once the process and planning matures, the various student roles will be clearer and far easier for newer students to assume. Student ownership will ensure the experience won't be taken for granted." Park points out that there is a bigger picture: student-run volunteer dental clinics give students valuable experience in running a business.

The program provides an in-the-trenches touchstone experience—and it helps awaken students' awareness of the kind of impacts they can have through serving in their community. For Martyna, the volunteering experience will help him get through dental school; it reminds him he is in the right profession and that there is light at the end of the tunnel. Volunteering also confirmed, for Duong, the reasons she chose a dental career: "I'm motivated by helping others—it feels good to help them out of pain." Bland shares a similar sentiment: his most rewarding moment was helping patients believe they can take care of their mouths. Both Duong and Bland see volunteering in their futures. In fact, Bland is doing volunteer dentistry in Brazil this summer. And Duong sees fitting volunteer work into private practice with the same passionate motivation she has for making time to teach piano while in dental school. Colombe, too, thinks the positive experience gained as a student can create a persisting interest in volunteering after graduation. She also sees the program generating awareness about volunteering among dentists in the community—especially alumni.

Meanwhile, a patient with one eye on her shopping cart parked outside the window is relieved of severe pain and recovering in the clinic waiting area after a tooth extraction. She sums up her experience with students in the program with this avowal: "If I ever win the lottery, I'll give this place a million dollars. People here are so kind and professional."



## Community Volunteer Clinical Program—A Pilot Project

The goal of the Community Volunteer Clinical Program is to engage volunteer dentists, including alumni, and all years of students (both DMD and dental hygiene degree students) in up to six weekend (Saturday) clinics at multiple locations annually.

The program's mission is to improve and sustain the oral health of people in need within the community; to promote health education and social betterment, and provide assistance through treatment, training and education; and to enhance students' awareness and role as global citizens with sustainable opportunities to serve.

The program is led by UBC Dentistry clinical assistant professor Dr. Larry Rossoff and takes its mandate from Dentistry's strategic plan to provide students with diverse experience and to engage community. The clinics are patient focused, which means that students will gain valuable insight on how to treat people and how experience in the community is unique and different from work in the clinic on campus. Though extracurricular, the volunteer opportunities are designed to complement the Professionalism and Community Service (PACS) curriculum.

The program currently operates its community volunteer dental clinics at two locations in the Metro Vancouver area. Since January 2009, the following community volunteer clinics have been held:

### Downtown Eastside Clinics (Vancouver Native Health Society)

January 31, 2009  
March 28, 2009  
June 20, 2009

### Douglas College Clinics (in partnership with the British Columbia Dental Association and Douglas College)

April 25, 2009  
Next scheduled: fall 2009



The Tam family practises together in Vancouver. From left to right: Isaac T. Tam, DMD, FRCD (C), Samuel P. Tam, DMD, Esther C. Tam, DMD, MSD, FRCD (C), Remedios Fu-Tam, MD, MDiv, and Timothy Tam, MS, DMD. Dr. Samuel Tam is currently completing a pediatric dental residency program at the Children's Hospital of Pennsylvania.

PHOTO BY BRUCE MACAUBREY

## The Tam Family and the Tam Foundation

The Tam Foundation is a charitable organization set up by the Tam Family to do medical-dental missions for the underserved in Canada. UBC Dentistry is excited to work with the Tam Foundation.

*"It is our goal to see that UBC will become one of the very best universities in providing first-rate dental education to today's students. As a family, we have both a creation and a redemption mandate. We believe that by God's mercy we can fulfill these mandates as partners or co-creators of this wonderful world, to enable others—specifically the UBC Faculty of Dentistry and the students—to improve oral health care and to explore, discover and dream the impossible for generations to come. We believe that we are blessed in order to bless others."*

## MAKE IT COUNT

Through the generosity of alumnus Asef Karim DMD 1999, the Professionalism and Community Service program (PACS) will receive its first student award. The Rashida Ali Award in Dentistry was created in memory of Dr. Karim's aunt and will be awarded to a PACS student who demonstrates outstanding leadership and excellence in the world of community dentistry and global citizenship.

By supporting an existing student award or bursary, you will help enhance a student's experience by lessening financial burden. You will also exemplify professionalism and community contribution for all future oral health professionals.

To support existing student awards and bursaries, or to create a new one of your own, please contact Jane Merling at 604-822-5886 or [merling@interchange.ubc.ca](mailto:merling@interchange.ubc.ca)



UBC  
DENTISTRY  
ALUMNI

## CLASS NOTES AND EVENTS

Share your news with classmates, faculty and friends. Look for reunion announcements and events for all alumni. Submit alumni stories and keep in touch at [www.dentistry.ubc.ca/alumni](http://www.dentistry.ubc.ca/alumni)

### 1970s



Henk Van Hove  
DMD 1971

Henk Van Hove joined the Chancellor's procession of the 2009 graduation ceremonies at the Chan Centre on May 26, 2009. Dr. Van Hove handed each graduate a gift to welcome them into the alumni association.



Garry Sutton  
DMD 1972

After operating a private practice in Steveston for 35 years, Garry Sutton has joined the College of Dental Surgeons of BC as a part-time complaints investigator. He serves on the board of the Vancouver and District Dental Society and is involved with the Study Club Alliance of BC. Garry also contributes his time to the Patterson Dental Mission Project, which supplies portable dental clinics for any dental professional who wants to provide services to communities in developing countries without oral health care. He practises as an associate dentist on a part-time basis.

**KEEP IN TOUCH**  
at [www.dentistry.ubc.ca/alumni](http://www.dentistry.ubc.ca/alumni)



Anthony Wong  
DMD 1976

Anthony Wong successfully challenged the Fellow level examination of the American Academy of Implant Dentistry and was awarded the title of Fellow of the AAID in November 2008. He also successfully passed the American Board of Oral Implantology/Implant Dentistry exam in March 2009. Anthony has been granted the status of a Diplomate of the ABOI/ID. He has relocated his office from Delta to South Surrey after 33 years of practise.



REUNION  
Dip DH 1979  
Cathy Jackson  
Dip DH 1979

**Hygienists' Hiatus** (with apologies to the creator of the Gilligan's Island theme song)



Just sit right back and you'll hear a tale, a tale of a reunion trip

That started from Vancouver port aboard the Princess ship.

The ship was bound for Ketchikan when the 16 girls set sail;

They hoped they'd spot a whale or two on their four-day cruise,

Their four-day cruise.

The weather was perfect all the way and no one got seasick,

So they ate and drank to their hearts' content

And no one got seasick!  
So this is the tale of our 16 girls:  
Gaye, Marita, Sue and Shelley  
Rosemary, Cathy, Abby and Sheila  
Cynthia, Tina, Britta and Laura  
Two Dianas and a pair of Barbs  
And the things that good friends do!



REUNION  
DMD 1979

### Still Smiling After All These Years

Graduates of the DMD class of 1979 toasted the past 30 years over fine wine at the Spirit Ridge Vineyard Resort & Spa, from June 5 to 7, 2009. Organizer Paul Andersson DMD 1979 did a fine job bringing 23 of his classmates together for a weekend away.

### 1980s



Cathy McGregor  
DMD 1980

Cathy McGregor has joined the College of Dental Surgeons of BC as a part-time complaints investigator. Cathy worked in private practice in Steveston for 25 years, was an examiner and developed questions for the National Dental Examining Board of Canada,

and taught part-time at UBC's Faculty of Dentistry for more than two decades. She has developed and implemented remedial education programs for the College and served on the College's Review Committee, an earlier version of today's Inquiry Committee. Cathy is a fellow of the American College of Dentists.



Jim Richardson  
DMD 1984

On June 20, 2009, Jim Richardson completed the gruelling Ride to Survive, cycling 400 kilometres solo to raise funds for the Canadian Cancer Society. He left Kelowna at 4 a.m. and arrived in Delta some 19 hours later. The peloton (the main group of riders in a cycling road race) battled 20 to 30 kilometre per hour headwinds, which forced the group to pedal (rather than coast) down the long hill from the Coquihalla summit into the town of Hope! This year the ride raised over \$350,000, though Jim was unable to meet his personal fundraising goal of \$2,000. If you would like to know more about this event or make a donation, visit [www.ride2survive.ca](http://www.ride2survive.ca) or e-mail Jim at [jameseri@interchange.ubc.ca](mailto:jameseri@interchange.ubc.ca)



Colonel J.C. Taylor CD  
DMD 1984

James Carey (J.C.) Taylor was appointed Deputy Commander of the Canadian Forces (CF) Health Services Group, effective July 2009. The group includes all the CF's medical and dental clinics, field units, schools and associated intermediate headquarters.

**DMD 1984 REUNION**

25th Year Reunion  
Friday - Sunday, September 11 - 13, 2009

Pan Pacific Hotel, Whistler, BC  
Dinners at Bearfoot Bistro and at Quattro.

For more information, contact Bhasker Thakore DMD 1984 at [bhasker@shaw.ca](mailto:bhasker@shaw.ca) or Jenn Parsons at [dentalum@interchange.ubc.ca](mailto:dentalum@interchange.ubc.ca)



REUNION  
DMD 1989

Ray Fong and Ernest Lam, both DMD 1989, organized a 20-year reunion at the Five Sails Restaurant during the Pacific Dental Conference in March. Pictured here from left to right are: James Lee, Ernest Lam, Zenon Trylowsky and Bernie Lim.

**1990s**



Ray Dyck  
DMD 1992

Abbotsford has a new community dental clinic as of October 2008 thanks to Ray Dyck and his committee: Chris Barlow DMD 1989, David Larsen DMD 1987 and Jennifer Larsen Dip DH 1985. It is a free clinic for the patients, but they have to be screened and registered with the Abbotsford Food Bank. The clinic is open four half-days a month, depending on available volunteers. Anyone interested in volunteering their time please check out the website and sign up at [www.abbotsfordfoodbank.com/dental](http://www.abbotsfordfoodbank.com/dental). (The username is "Volunteer" (case sensitive) and the password is "tooth.") The committee is also in the process of hiring a paid one-day-per-week person to help with clinic operations.



REUNION  
DMD 1999

Renate Simmons DMD 1999 did a great job organizing the 10-year reunion for the class of 1999 at Transcontinental this spring during the Pacific Dental Conference. Twenty-nine grads attended the dinner along with their partners.

**2000s**



Lila Nabi  
DMD 2002

Lila Nabi and Jason Stuart are delighted to announce the birth of their son Mateus on August 22, 2008. He is absolutely the light of their lives.



Rene Buttar  
DMD 2005

Rene and his wife Anita are pleased to announce the arrival of their daughter Anya Kaur on December 28, 2009.

**SHARE**

Send an alumni story or update for "Class Notes" to [dentalum@interchange.ubc.ca](mailto:dentalum@interchange.ubc.ca)



Ed Cheng  
DMD 2008

Andrei Ionescu  
DMD 2008

They don't call New York City "the city that never sleeps" for no reason. With five unique boroughs and over eight million people, there is constant hustle and bustle. The action doesn't stop whether it's day or night. Working in New York as a health care professional, you see it all.

As a new UBC grad, you are excited and energetic about your career path ahead. Although you may not feel comfortable with certain scenarios, at least you are confident that PBL (problem-based learning) has taught you how to quickly look it up while the patient is in the chair. Having been trained as a dentist in Vancouver, one of Canada's largest metropolises, one certainly feels like they've been exposed to a broad variety of cases and faced with many challenges. But for all those adventurous types who seek constant thrills, are thirsty for knowledge and willing to sweat, New York is the place for you.

For Dr. Cheng and myself, moving to New York was an eye-opening and overwhelming experience in itself, but nothing compared to the shock we received when we walked through the doors of St. Barnabas Hospital, a Level 1 trauma centre in the Bronx. Here, we were warmly welcomed and quickly given the task of managing the vast array of needs of an under-served population. In a hospital setting such as this, the scope of dentistry is broadened and the pace is accelerated. Within the first week of our hospital rotation, we were involved with the management of a skull fracture, a raging odontogenic infection and two mandible fractures. In the dental clinic, we worked under the guidance of attendants specializing in every field of dentistry to undertake complex cases. We have had the opportunity to place and restore implants and to undertake full mouth rehabilitations involving fixed and removable prostheses.

For two years of their education, students at UBC question the medical curriculum

that forces them to learn intricate details of seemingly irrelevant topics. However, this background suddenly becomes useful when you get paged at 2 a.m. to suture a large facial laceration on a patient with a clotting dysfunction, or when the emergency physician asks you what the findings of a cranial nerve exam you've just performed on a patient with an orbital fracture are. At a hospital residency such as this, you not only have the opportunity to witness cases you may otherwise have only seen in textbooks, but you also have the privilege of working with specialists to treat them.

General practice residency is not for everyone, but for those new grads who are intrigued, a GPR can offer you an experience tailored to your field of interest, or an opportunity to discover what you actually are interested in. Whether you decide to specialize or to go out into general practice, a GPR will provide you with the knowledge and an appreciation of how to manage cases you would not otherwise undertake. Furthermore, it fosters professional relationships and many lasting friendships.



Margit Strobl  
BDSc (DH) 2008

Margit Strobl has been acclaimed as chair of the BC Dental Hygienists' Association board for a second term.



Danielle Woo  
DMD 2008

Danielle Woo and Philip Chow were married on May 17, 2009, in Richmond at St. Joseph the Worker Catholic Church. They toured London and Paris on their honeymoon.



Anthony Reichert  
DMD 2009

Monika Schneiderova  
DMD 2009

Dent Ball this year was themed "Hollywood," and Monika and Tony made a splashy entrance to the Pan Pacific Hotel ballroom on the red carpet.

**Almost Alumni**



Emery Bland,  
Alvin Lo, Mike O'Brien,  
Mike Webster  
DMD 2010 candidates

This past July, four DMD 2010 (candidate) students (Emery Bland, Alvin Lo, Mike O'Brien and Mike Webster) and recent graduate Anthony Reichert DMD 2009 travelled to Brazil and volunteered as dentists for a week. Working with the organization Fundamed, the UBC Dentistry team used a small local community centre, in the little town of Praia do Presidio in the state of Ceara, to provide emergency care and hygiene to nearly 200 locals. The teamwork displayed by all five volunteers—and the invaluable mentorship provided by Dr. Anthony Reichert—made this experience not only rewarding, but very successful and, most certainly, unforgettable. Big thank yous to Ivoclar Vivadent, Patterson Dental, UBC Dentistry and alumni for their support.





Evan Wiens  
DMD 2012 candidate

In the 2009 Heartfelt Images Photo Contest, Evan Wiens won Photographer's Choice – 2nd Place for his photo image “Heart Healthy Habits.”

## Recent Events



### Annual UBC Dentistry Soccer Game

Faculty and alumni won the annual UBC Dentistry soccer game at University Hill Elementary School, beating the students in a 2-1 victory this spring. Dean Shuler made his coaching debut and is rumoured to be strategizing already for 2010.



### First Annual Family Day on UBC Alumni Weekend

Two hundred alumni, students, staff, faculty and their families attended the first annual Family Day held May 23, 2009, during UBC Alumni Weekend. Dr. Larry Rossoff and a team of student volunteers ran children's activities in the old clinic, while the Tooth Fairy made a guest appearance in the clinic lobby.

## For Students and Alumni

### WELCOME BACK BZZR GARDEN & YEARBOOK PICK-UP

Friday, September 18, 2009 · 5 pm

Student Lounge, John B. Macdonald Building, UBC Point Grey Campus

E-mail dentalum@interchange.ubc.ca or Cindy Cho DMD 2009 at cindycho@gmail.com for information.



### 7TH ANNUAL ALUMNI & FRIENDS GOLF TOURNAMENT

Sunday, September 20, 2009 · 1 pm (shotgun start)

Morgan Creek Golf & Country Club, Surrey, BC

E-mail dentalum@interchange.ubc.ca for information.

### COMMUNITY VOLUNTEER CLINIC AT DOUGLAS COLLEGE WITH THE BCDA

Saturday, October 17, 2009 · Noon - 5 pm

Interested in volunteering?  
E-mail dentalum@interchange.ubc.ca



### 3RD ANNUAL DENTAL HYGIENE WINE RECEPTION & FASHION SHOW

Wednesday, October 21, 2009

Uber Lounge at Steamworks, Vancouver, BC

Come see alumni, faculty and students on the runway and then shop till you drop. Fashion show presented by Cindy's Side Door consignment clothing. Proceeds from the evening go to support dental hygiene students in community outreach programs.

Contact dentalum@interchange.ubc.ca for ticket information.

### UBC AND BCDA DENTAL MENTORSHIP PROGRAM KICK-OFF EVENT

Monday, November 23, 2009

Mentors come and meet your students.

Location to be determined.

For more information, contact Alex Hemming at alexaug@interchange.ubc.ca



### 2ND ANNUAL BATTLE OF THE BANDS: FACULTY/ALUMNI VS. STUDENTS

Friday, November 6, 2009 · Doors open at 6 pm (first band at 7 pm)

Ballroom, Thea Koerner Graduate Student Centre, UBC Point Grey Campus

Tickets on sale soon!

## For Alumni

### 2009 ALUMNI ACHIEVEMENT AWARDS

Tuesday, November 10, 2009

Life Sciences Building, UBC Point Grey Campus

Dr. Edwin H. K. Yen, professor of Orthodontics and dean emeritus, has been awarded the Honorary Alumnus Award from the UBC Alumni Association for raising the profile of the Faculty of Dentistry internationally while reimagining its instructional methods.

For tickets, e-mail dentalum@interchange.ubc.ca



### ALOHA! EARN CDE CREDITS IN HAWAII!

Wednesday - Saturday, January 27 - 30, 2010

Big Island, Mauna Lani Resort, Hawaii

Hawaii 2010

The Complete Treatment Concept for Restoring Single Missing-Tooth Sites Using Implants

Special milestone reunion planning at this event!

Contact dentalum@interchange.ubc.ca



### ANNUAL ALUMNI RECEPTION PACIFIC DENTAL CONFERENCE 2010

Friday, April 16, 2010 · 5:30 - 7:30 pm

Vancouver Convention and Exhibition Centre

Commemorative anniversary class photos to be taken of: 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005 and 2009.

### 1968 - 2009 GRAD PERIO ALUMNI REUNION

Friday, May 28, 2010 · 7 pm

Pan Pacific Hotel, Vancouver, BC

Dinner following the Canadian Academy of Periodontology conference reception.

For event information, e-mail dentalum@interchange.ubc.ca

### UBC AND BCDA DENTAL MENTORSHIP PROGRAM SPONSORED BY CDPSI

The UBC and BCDA Dental Mentorship Program, sponsored by Canadian Dental Service Plans Inc., is recruiting dentists to be mentors. If you are interested in being paired up with a student, please contact Alex Hemming at alexaug@interchange.ubc.ca



### DENTAL HYGIENE MENTORSHIP PROGRAM

If you are a dental hygiene professional and have a few hours to donate to mentor a Dental Hygiene student, please contact Alex Hemming at alexaug@interchange.ubc.ca

### PLANNING A REUNION?

For ideas, call Alumni Relations at 604-822-6751

## Stay in Touch

The alumni relations department at UBC Dentistry can help you stay connected with your fellow graduates, plan and promote reunions, and keep you informed of upcoming educational opportunities. To learn more, please contact Jenn Parsons, manager of Alumni & Community Affairs, at dentalum@interchange.ubc.ca or 604-822-6751.

Stay connected to more than 1,800 alumni. Share your news, thoughts or comments. [www.dentistry.ubc.ca/alumni](http://www.dentistry.ubc.ca/alumni)

### ALUMNI PARTNERS



*Thank you to all our volunteers and industry supporters.* **COMMUNITY VOLUNTEER CLINICS** · Bev Arduini (BCDA) · Emery Bland DMD 2010 candidate · Mario Brondani PhD (Dental Science) 2008 · Amanda Casciani DMD 2011 candidate · Laura Caylor DMD 2010 candidate · Angie Chan DMD 2009 · Jackie Chen BDS Sc 2011 candidate · Stephanie Cheng DMD 2011 candidate · Wendy Ching DMD 2009 · Kenneth Choi DMD 2010 candidate · Vivian Chow DMD 2011 candidate · Chris Chung DMD 1995 · Cheryle Colombe DMD 2011 candidate · Madelene DeCastro BDS Sc 2011 candidate · Derek Decloux DMD 2011 candidate · Leeann Donnelly BDS Sc 2002 MSc 2005 · Janice Duong DMD 2010 candidate · Amro Foda DMD 2012 candidate · Rosalyn Fong DMD 2012 candidate · Sarah Garbelya DMD 2012 candidate · Graham Grabowski DMD 2008 · Michelle Huh BDS Sc 2011 candidate · Jonathan Hung DMD 2012 candidate · Kathryn Hunter DMD 2012 candidate · Colin Inkster DMD 1979 · Anne Kelly DMD 2010 candidate · Hedy Lam DMD 2009 · Kevin Lauwers DMD 2005 · Michelle Lauwers DMD 2009 · Ryan Lauwers DMD 2004 · Victor Law DMD 2009 · Scott Martyna DMD 2012 candidate · Deb McCloy Dip DH 1984 BDS Sc 1995 MSc 2004 · Paul Mikhail DMD 2012 candidate · Brent Moore DMD 2010 candidate · Priscilla Ojeda BDS Sc 2011 candidate · Leanne Olson BDS Sc 2011 candidate · Mehdi Oonchi DMD 2010 candidate · Kristina Pahuta DMD 2011 candidate · Peter Park DMD 2011 candidate · Nick Piemontesi DMD 2012 candidate · Mehr Poulad DMD 2010 candidate · Wendy Rondeau DMD 1979 · Allison Smith DMD 2011 candidate · Albert Tam DMD 2009 · Dr. Bruce Ward · Evan Wiens DMD 2012 candidate · Angela Wong DMD 2009 · Dr. Maurice Wong · Michael Woodbeck DMD 2009 · Candace Woodman DMD 2007 · Vivian Yip DMD 2012 candidate · Wendy Yip DMD 2010 candidate · Mike Zhou DMD 2010 candidate

**FAMILY DAY ON UBC ALUMNI WEEKEND** · Travis Gibson DMD 2012 candidate · Samantha Heron BDS Sc 2012 candidate · Jonathan Hung DMD 2012 candidate · Kathryn Hunter DMD 2012 candidate · Nishad Janmohamed BDS Sc candidate · Scott Martyna DMD 2012 candidate ·

# THANK YOU

Mellissa Millagan DMD 2012 candidate · Leila Shahbazi DMD 2012 candidate · Diana Yeung BDS Sc 2012 candidate **GRADUATION 2009** · Kim Laing BDS Sc 2004 · Henk Van Hove DMD 1971 **ALUMNI REUNION LEADERS** · Paul Andersson DMD 1979 · Ray Fong DMD 1989 · Cathy Jackson Dip DH 1979 · Ernest Lam DMD 1989 · Reza Nouri DMD 1994 · Renate Simmons DMD 1999 · Bruce Smith DMD 1979

**ADMISSIONS COMMITTEE** · Jim Chen DMD 2003 · Chris Chung DMD 1995 · Brett Coyle DMD 1986 · Cyrus Far DMD 2006 MSc 2002 · Daniel Kah DMD 2003 · Ryan Lauwers DMD 2004 · Samson Ng DMD 2002 MSc 2004 · Ante Semren DMD 2006 MSc 2002 · Kenji Shimizu DMD 1979 · Ravinder Siddoo DMD 1995 · Stephanie Song DMD 2003 · Gurminder Tatra DMD 2003 · Calvin Tham DMD 2002 **GENERAL PRACTICE RESIDENCY COMMUNITY PROGRAMS** · All General Practice Residency instructors **6TH DR. RICHARD V. TUCKER THIRD-YEAR CAST GOLD COURSE** · Dr. Randy Allan · Dr. Greg Card · Garden Court Dental Lab staff · Dr. Chris Hacker · Dr. Erik Hutton · Dr. Andy Kay · Dr. Peter Kearney · Mr. Akos Mankovits (Garden Court Dental Lab) · Dr. Terry McKay · Dr. Rick Nash · Dr. Mark Norris · Dr. Suzanne Phillip · Dr. Mike Thomas · Dr. David Thorburn · Dr. Laurie Vanzella · Dr. Lino Vanzella · Dr. Margaret Webb · Dr. Maurice Wong · Dr. Ross Wright · Brasseler Canada · E.C. Moore Company · Garden Court Dental Lab · Jensen Premium Dental Products · Kerr Corporation · Patterson Dental Canada Inc. · Suter Dental Mfg. Co. Inc. · *UBC Dentistry is thankful to all who volunteered their time. We apologize if your name or organization was missed.*

## CONTINUING DENTAL EDUCATION 2009 - 2010

### SEPTEMBER 2009

- 12 (SATURDAY)  
Root Canal Therapy Redefined  
Dr. Ravi Kapur
- 23 (WEDNESDAY EVENING)  
UBC Advanced General Dentistry Seminar Series\*  
**Limited Enrolment**
- 26 (SATURDAY)  
Infection Control: That Thing You Do—Why Do You Do It? & Vaccine Recommendations for Health Care Professionals: Science, Success and Misperceptions  
Dr. John Molinari

### OCTOBER 2009

- 3 (SATURDAY)  
Digital Radiography: Want to Go Digital? Don't Know Where to Start?  
9 am - 12 pm or 1 pm - 4 pm  
Ms. Neala Welburn, Ms. Cindy Luk, Ms. Susan Schmitz  
**Limited Enrolment**
- 17 (SATURDAY)  
High Tech-High Touch: Simplified Adhesive/Cosmetic Solutions: Using All the Tools in the Box  
Dr. Bruce LeBlanc
- 21 (WEDNESDAY EVENING)  
UBC Advanced General Dentistry Seminar Series\*  
**Limited Enrolment**
- 31 (SATURDAY)  
Bone Grafting  
Dr. Jim Grisdale

### NOVEMBER 2009

- 7 (SATURDAY)  
Ortho Update  
Moderators: Dr. Paul Witt, Dr. Ernest Lam
- 14 (SATURDAY)  
What's New and What's to Review—Dental Hygienists and Local Anaesthesia  
What Is It? How Do I Use It? Today's Dental Products and Treatment Options  
Ms. Tricia Osuna
- 18 (WEDNESDAY EVENING)  
UBC Advanced General Dentistry Seminar Series\*  
**Limited Enrolment**
- 21 (SATURDAY)  
The Art of Dental Therapeutics: Drugs, Herbs and Interactions  
Dr. Mark Donaldson
- 28 (SATURDAY)  
Oral Surgery for the General Practitioner  
Dr. Ian Matthew, Dr. Kenneth Chow  
**Limited Enrolment**

### DECEMBER 2009

- 2 (WEDNESDAY EVENING)  
UBC Advanced General Dentistry Seminar Series\*
- 5 (SATURDAY)  
The Ultimate Perio Program: Putting It All Together for Maximum Productivity  
Dr. Timothy Donley

### JANUARY 2010

- 23 (SATURDAY)  
Occlusal Considerations for Everyday Dentistry  
Dr. Mike Racich
- 27-30 (WEDNESDAY - SATURDAY)  
Hawaii 2010  
The Complete Treatment Concept for Restoring Single Missing-Tooth Sites Using Implants  
Dr. Tassos Irinakos, Dr. Chris Wyatt  
Location: Mauna Lani Resort, Big Island, Hawaii

### 2009 FALL THURSDAY EVENING LECTURE SERIES FOR REGISTERED DENTAL HYGIENISTS

#### SEPTEMBER 2009

- 24 (THURSDAY)  
Effective Patient Management  
Ms. Sandy Chernoff  
**Limited Enrolment**

#### OCTOBER 2009

- 8 (THURSDAY)  
What's New? An Update on How Current Scientific Research Is Reshaping Clinical Practices Today  
Dr. Phoebe Tsang  
**Limited Enrolment**

#### NOVEMBER 2009

- 5 (THURSDAY)  
Another Way of Looking at Lumps and Bumps in the Mouth  
Dr. Samson Ng  
**Limited Enrolment**
- 26 (THURSDAY)  
Cool Aid Clinic  
Ms. Cheri Wu  
**Limited Enrolment**

This calendar is subject to change.

### FEBRUARY 2010

- 5-6 (FRIDAY - SATURDAY)  
Annual Vernon Ski Seminar  
Conservative Cast Gold Techniques for Preservation of Tooth Structure and Maximum Esthetics  
Dr. Margaret Webb  
Endodontic Treatment Decisions for the General Practitioner  
Dr. Jeff Coil  
Location: Chilcoot Conference Centre, Silver Star Mountain, BC

### MARCH & APRIL 2010

No CDE courses

### MAY 2010

- 7-9 (FRIDAY - SUNDAY)  
Inhalation and Oral Sedation in Dentistry  
Dr. David Donaldson, Dr. Mark Donaldson, Dr. Fred Quarnstrom
- \* **UBC ADVANCED GENERAL DENTISTRY SEMINAR SERIES**  
Dr. Jeff Coil, Dr. Chris Wyatt, Dr. Eli Whitney, Dr. Rosamund Harrison, Dr. Glenn van As, Mr. Bruce McCaughy, Dr. Alan Lowe, Dr. Sujay Mehta

FOR FULL DETAILS OF CDE COURSES AND TO REGISTER VISIT [DENTISTRY.UBC.CA/CDE](http://DENTISTRY.UBC.CA/CDE) **ADA CERP** Continuing Education Recognition Program