

IMPRESSIONS

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Advancing Oral Health Through Outstanding Education, Research and Community Service



a place of mind

THE UNIVERSITY OF BRITISH COLUMBIA

Dean's Message



*Dear Colleagues and Friends,
Welcome to the fall 2013 edition of UBC Faculty of Dentistry's Impressions. This has been another exciting year at UBC Dentistry, with considerable progress made in research, education and community service. All these accomplishments will be highlighted in the 50th anniversary events during 2014, and we look forward to your participation.*

Our dental students, alumni and faculty members continue to provide valuable service to underaccessed populations in British Columbia and internationally, demonstrating the social responsibility that is a core value of the Faculty of Dentistry. The Centre for High-Throughput Phenogenomics has become a scientific core resource for researchers from multiple faculties, universities and industry, which reflects the centre's outstanding technical capabilities and scientific expertise. And faculty members have continued to receive recognition for their work. We are always happy to share news of their awards, new grants supporting innovative research and donations that support Faculty strategic objectives.

Of particular note, all the graduate students finishing the specialty programs in Endodontics, Orthodontics, Pediatric Dentistry, Periodontics and Prosthodontics have successfully completed the National Dental Specialty Examination and become Fellows of the Royal College of Dentists of Canada. These dental specialists also completed the research and coursework for the master's degree in Craniofacial Science. Their achievements in dental specialty education and research are an important reflection on the

quality of the programs and the dedication of the graduate students and the faculty members who contribute to this success.

One of the major articles in this *Impressions* focuses on Dr. Don Brunette, who has a well-deserved international reputation for his work on the interactions of surface textures with cells and how these textures can influence dental implant design. Brunette's collaborative research with Drs. Doug Waterfield and Babak Chehroudi is a perfect example of basic research findings that can be translated into clinical applications to improve patient outcomes.

Another article points to our volunteer initiatives, which have now extended beyond local clinics and outreach to the Penelakut First Nation in southwestern BC. In July 2013, dental and dental hygiene students, alumni and faculty members participated in a clinic serving the Tsilhqot'in band in the remote community of Anaham, located in the central interior of BC. Not only did the UBC Dentistry group provide badly needed dental care, but they also took part in an important cultural exchange that will profoundly influence how they practise dentistry in the future.

Yet another article shines a light on Dr. David Sweet OC and the Bureau of Legal Dentistry (BOLD), which have developed a disaster victim identification course that has been accepted as the training for all Canadian Forces and NATO oral health professionals. It is a real tribute that this UBC Dentistry program now represents the international standard.

I hope you share my excitement about our Faculty of Dentistry, our accomplishments in the first 50 years and the potential for continued excellence. This issue contains a four-page synopsis of the events planned for the 50th anniversary in 2014, which we hope will be enjoyed by all our outstanding alumni, students, staff and faculty members. You are the ones who will lead the profession into the future.

All the best,

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

PHOTO BY MARTIN DEE

NEWS

Digital Crown Fabrication Gets a Boost via Micro-CT at Centre for High-Throughput Phenogenomics

Advanced imaging technology at the Faculty of Dentistry can now measure what was previously immeasurable: the internal fit of crowns. Dr. David Alfaro, a graduate prosthodontics student in Dr. Chris Wyatt's lab, has used this imaging technology to evaluate and compare the internal fit of crowns fabricated from both traditional and digital impression and fabrication methods.

The internal fit—that is, how well the surface of the tooth structure (axial wall) and the crown (casting) match and how that match determines cement volume and its performance in the negative space—is significant to the success of crown placement and longevity. With the introduction of digital impressions and computer-assisted crown fabrication, understanding the differences in fit between fabrication methods is a pressing concern for prosthodontists. So how does the newer digital process of crown fabrication stack up against the traditional manual method?

To answer this question, Alfaro used a novel method, employing micro-CT and the technical expertise at the Faculty of Dentistry's Centre for High-Throughput Phenogenomics, to measure the gap. He captured 3D images of

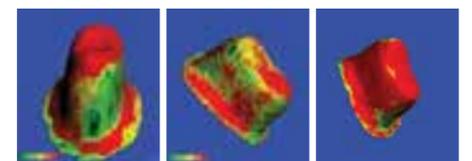
lithium disilicate crowns fabricated in three ways: (1) an entirely digital workflow, (2) manually from digital impressions, and (3) a traditional manual or pressed process. The images generated reams of data that provided exacting measurements for the total volume, maximum thickness, average thickness and optimal thickness of negative space—the crown fit (see photos).

Alfaro's results indicate there is a difference in fit between the three types of crowns: digital impressions allow for better-fitting crowns; computer-assisted design/computer-assisted manufacture (CAD/CAM) of crowns had the smallest average total volume of internal space; and traditional techniques resulted in poorer fit.

Before micro-CT, historical studies measuring crown fit relied on collecting data from points along a vertical cut through the crown and tooth structure to expose the negative space. Although total volume could not be determined, this method did afford the best possible solution.

Alfaro writes that "micro-CT for the evaluation of the internal fit of single crowns is a relatively novel approach and has resulted

in three-dimensional representations of the internal gap that are relatively new to dental research. The results of this study are in strong support of the transition to digital dental technologies and should give practitioners the confidence to incorporate digital imaging and digital manufacturing into their daily clinical practice."



Three-dimensional images generated by micro-CT showing the space between the crown and the prepared tooth. Colours represent varying depths, with red indicating the areas of poorest fit and green indicating the best fit.

To learn more about how the Centre for High-Throughput Phenogenomics can support your scientific objectives, visit www.phenogenomics.dentistry.ubc.ca

Athletics: Two Dental Students Achieve Peak Recognition



50 Years of Varsity Athletes at UBC Dentistry

In the pool, on open water, field or road, at the rink, down the slopes, in the gym, on the court, and on the course—Dentistry alumni have had a significant presence on UBC varsity teams over the past 50 years. To date, 83 individuals have competed, some on more than one team. The breakdown of participation by sport is as follows: badminton (3), basketball (8), curling (1), cycling (1), fencing (1), field hockey (3), figure skating (1), football (8), golf (6), gymnastics (2), ice hockey (6), judo (2), rowing (8), rugby (7), sailing (1), skiing (3), soccer (6), squash (6), swimming (9), tennis (2), track and field (7), volleyball (1) and wrestling (1).

Zack Zeiler is a third-year dental student and a UBC Thunderbird varsity swimmer—and he is exceptional at both pursuits.

This past October, he attended the Breakfast of Champions event hosted by UBC president Prof. Stephen Toope. This award breakfast honours varsity athletes who achieve Academic All-Canadian status: that is, who have competed at Canadian Interuniversity Sport (varsity) level and have achieved an academic average of 80 percent or higher.

Zeiler swam out his last year of Canadian Interuniversity Sport eligibility with the Varsity Swim Team while in his second year of dental school.

“During that time, I trained with the team six times a week, and qualified for, and scored points at, the National University Championships,” Zeiler says.

PHOTOS From left to right: Zack Zeiler in mid-air after a backstroke start off the block; Zeiler and Prof. Stephen J. Toope, at the Breakfast of Champions; Chris Dare (back row, centre) at a TEDx Terry Talk; Dare raised the UBC Dentistry banner on the summit of the Carstensz Pyramid in Papua province, Indonesia.

On July 26, 2013, third-year dental student Chris Dare reached the summit of the Carstensz Pyramid in Papua province, Indonesia. At 4,884 metres, this is the highest point in Oceania (Australia and the islands of the South Pacific). With this climb, he has completed five ascents in the Seven Summits mountaineering challenge, with only Mt. Vinson (Antarctica) and Mt. Everest to go.

“After a gruelling eight-day trek through dense and muddy jungle to reach base camp, we made a 15-hour summit attack that ended in success for all seven climbers,”

says Dare. “With the trek out, it was 15 days of pure mental grit, living in a muddy tent without showers, warmth or much of anything. But it was really something!”

In a TEDx Terry Talk at UBC on November 2, Dare spoke about life lessons learned while climbing some of the tallest mountains in the world, and during his deployment with the Canadian Forces in Afghanistan. View his talk, “No Excuses, No Regrets: The Desert and Mountains That Changed My Life,” to be archived online at <http://terry.ubc.ca>.

UBC on the Map for Dental Public Health

Abbas Jessani, a graduate student in Craniofacial Science, presented his work at this year’s Canadian Association of Dental Public Health (CADPH) conference, which took place September 27 to 29 in Toronto, Ontario. Jessani, who is finalizing his master’s research in dental public health and vulnerable pregnant women in the BC Lower Mainland, contributed well to the theme of this year’s conference: The Paradox of Oral Health Care in Canada: Bridging the Gap Between Abundance and Scarcity.

Jessani’s research, done under the supervision of Dentistry assistant professor Dr. Mario Brondani, examines the self-perceptions, misconceptions and false beliefs among subjects about their oral health during pregnancy. His work is casting light on what prevents pregnant women from accessing needed oral care. Among his findings, one stands out: subjects, especially from ethnocultural backgrounds, hold fast to beliefs that certain oral conditions, including tooth loss and bleeding gums, might be “normal” during pregnancy. Jessani will continue his dental public health research with Dr. Brondani at the doctoral level next year.

Although he was the only current graduate student from UBC to present at this year’s CADPH conference, in future years Jessani may be accompanied by more student colleagues. In 2014 UBC plans to launch a new

two-and-a-half-year program leading to a Master of Public Health (MPH) with a Diploma in Dental Public Health. It will be offered jointly by the Faculty of Dentistry and the Faculty of Medicine’s School of Population and Public Health.

Brondani, who will be director of the proposed combined graduate program, notes that a Master of Public Health is the most widely recognized professional credential for leadership in population and public health. The Diploma in Dental Public Health will be a non-clinical dental credential that provides graduates with the skills necessary to work in government, academic, professional and other health-oriented organizations. The combined program will, ultimately, prepare students at UBC to become leaders in dental public health.



Abbas Jessani, graduate student in Craniofacial Science at UBC Dentistry, researches dental public health. He presented at the 2013 Canadian Association of Dental Public Health Scientific Conference and Annual General Meeting held September 27 to 29, 2013, in Toronto, Ontario.

Read an article about Abbas Jessani’s graduate work and what drew him to UBC from Pakistan in “Reaching Vulnerable Populations in Oral Health Care—Canada’s Pluralistic Society Offers Keys” online at <http://bit.ly/19b5g91>

Faculty of Dentistry External Awards and Recognition in 2012 - 2013

RECIPIENT	AWARD/RECOGNITION
Dr. Fernanda Almeida, Assistant Professor	Clinical Research Award, American Academy of Dental Sleep Medicine
Dr. Mario Brondani, Assistant Professor	Olav Alvares Award, American Dental Education Association Award for Excellence in Interprofessional Education Teaching, College of Health Disciplines, University of British Columbia
Nadine Bunting, Clinical Instructor	Award of Merit, College of Dental Surgeons of British Columbia Special Group Award, College of Dental Surgeons of British Columbia
Dr. Ken Chow, Clinical Part-Time Faculty	Award of Merit, College of Dental Surgeons of British Columbia
Dr. Leeann Donnelly, Assistant Professor	Special Group Award, College of Dental Surgeons of British Columbia Award for Excellence in Interprofessional Education Teaching, College of Health Disciplines, University of British Columbia
Dr. Doug Johnston, retired faculty member; former Director, Graduate Pediatric Dentistry	Merit Award, British Columbia Dental Association
Zul Kanji, Clinical Assistant Professor	Outstanding Alumni Award, Vancouver Community College SFU Faculty of Education Graduate Fellowship, Simon Fraser University
Dr. Ken Lee, Clinical Part-Time Faculty	Merit Award, British Columbia Dental Association
Dr. Christopher M. Overall, Professor; Canada Research Chair in Metalloproteinase Proteomics and Systems Biology	Distinguished Scientist Award for Research in Oral Biology, International Association of Dental Research
Dr. Catherine Poh, Associate Professor	William J. Gies Award, International and American Associations for Dental Research
Dr. Robert Priddy, Professor Emeritus	Distinguished Service Award, British Columbia Dental Association
Dr. Edward Putnins, Professor; Associate Dean, Research, Graduate & Postgraduate Studies	Special Group Award, College of Dental Surgeons of British Columbia
Dr. Ravindra Shah, Director, International Relations	Hind Rattan Award, Non-Resident Indian Welfare Society, New Delhi, India Mahatma Gandhi Samman, Global Achievers Conclave, House of Lords, Parliament, London, United Kingdom
Dr. Charles Shuler, Professor; Dean, Faculty of Dentistry	President's Award, British Columbia Dental Association
Dr. Ken Stones, Clinical Part-Time Faculty	Distinguished Service Award, British Columbia Dental Association
Dr. Christopher Zed, Associate Dean, Strategic and External Affairs; Head, Postgraduate and Hospital Programs	Merit Award, British Columbia Dental Association
Dr. Lewei Zhang, Professor	William J. Gies Award, International and American Associations for Dental Research
Rana Tarzeman, PhD/Dip Perio candidate	Awarded to attend the International Association of Dental Research General Session, March 2013, Seattle, Washington, Canadian Institutes of Health Research – Institute Community Support
Esther Chen, MSc and DMD 2014 candidate	William J. Gies Award, International and American Associations for Dental Research
Keith Hau, MSc candidate	Awarded to attend the International Association of Dental Research General Session, March 2013, Seattle, Washington, Canadian Institutes of Health Research – Institute Community Support
Stacey Kirshenblatt, MSc/Dip Ortho 2014 candidate	Graduate Student Research Award, American Academy of Dental Sleep Medicine
Heather Biggar, BDS (Dental Hygiene) 2006, MSc 2009 Rae McFarlane, Part-Time Faculty Susanne Sunell, Part-Time Faculty	Winners, CJDH Research Award, Canadian Dental Hygienists Association, in participation with Crest Oral-B
Ambreen Khan, BDS 2013	CDHA Oral Health Promotion Award, Canadian Dental Hygienists Association, in participation with Crest Oral-B
Ambreen Khan, BDS 2013 Kevin Shen, DMD 2015 candidate Erin Chung, DMD 2016 candidate Kelvin Leung, DMD 2016 candidate Karen Nguyen, DMD 2016 candidate	Winners, Outstanding Booth Contest, Vancouver Diversity Fair, March 2013
Jeremy Huynh, BDS 2015 candidate	CDHA Leadership Award, Canadian Dental Hygienists Association, in participation with Dentsply



Ambreen Khan (C) receiving the CDHA Oral Health Promotion Award in Toronto, Ontario, in October 2013.

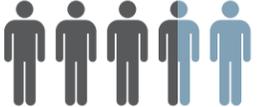


Dr. Ravindra Shah receiving the Mahatma Gandhi Samman in the House of Lords, London, UK, on October 4, 2013.

Keep up-to-date on all awards and achievements—including the annual Dean's Night, graduation and teaching awards—at www.dentistry.ubc.ca/awards

Summer Student Practitioner Program 2013

The Summer Student Practitioner Program pairs incoming fourth-year dental students with practising dentists (practitioners) for two to six weeks during the summer. Here are the numbers for 2013:

Student participation: 68% of class 

Practitioners: 43 (25 alumni, 18 non-alumni) 

Locations: 30 

BC: Agassiz, Campbell River, Chase, Creston, Elkford, Fort St. James, Hay River, Hazelton, Kamloops, Kelowna, Logan Lake, Merritt, Mission, Nanaimo, Parksville, Pitt Meadows, Powell River, Prince George, Prince Rupert, Quesnel, Richmond, Sooke, Squamish, Surrey, Vancouver, Vernon, Victoria, White Rock, Williams Lake.

Northwest Territories: Yellowknife.

For more information, visit www.dentistry.ubc.ca/sspp

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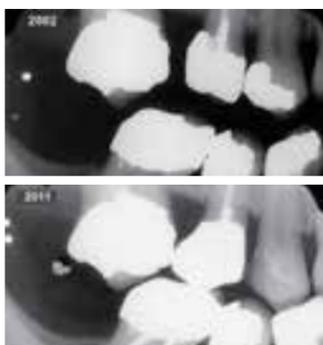


A BOLD Effort to Bring Closure to Disaster

BY BRIAN LIN

Members of NATO, ABCA, BOLD and BC-FORT at the end of the five-day course.

UBC Dentistry's David Sweet and the Bureau of Legal Dentistry are teaching military dentists from around the world how to identify victims of disasters.



Top: An ante-mortem radiograph.
Bottom: Post-mortem radiograph of the same patient.

Dr. David Sweet OC knows first-hand the technical and emotional implications of disaster victim identification. He spent 239 consecutive days helping identify victims of the 2004 Indian Ocean tsunami, including three weeks on the ground in Thailand. This experience showed him the darkest and brightest sides of humanity.

"The tsunami claimed approximately 250,000 lives and literally wiped some areas off the map," recalls Sweet, a forensic dentist and one of 5,600 disaster responders from 36 countries who assisted in post-mortem identification of victims. "The human body is so fragile against the enormous forces of nature—many of the victims were tossed around under water, smashed into trees, cars and parts of houses. The destruction was unimaginable."

While the sights, sounds and smells of the aftermath shook him to the core, it was the humanitarian efforts over the 16-month process of identifying 4,876 victims that re-ignited hope for Sweet and his colleagues from the British Columbia Forensic Odontology Response Team (BC-FORT).

"Witnessing how caring and resourceful people were in this dire situation, being able to give someone back their loved one and provide answers so they can begin to heal was both the height of my career and one of the most significant moments in my personal life."

In part due to his contributions during this and other disasters, Sweet was invested to the Order of Canada in 2008 and appointed chief scientist in disaster victim identification at Interpol in 2006. Now he and the Bureau of Legal Dentistry (BOLD) at UBC are equipping international military dentists with the skills and fortitude to respond to tragedy.

Earlier this summer, 12 trainees from the North Atlantic Treaty Organization (NATO) and the American, British, Canadian, Australian and New Zealand Armies' Program (ABCA) spent five days at the UBC Faculty of Dentistry learning the latest techniques in forensic identification. Some of these techniques were developed at the BOLD lab

and used during the Robert Pickton trial in BC. They have also been used by the US to identify the remains of Al-Qaeda members.

Trainees began their course in the morgue, where they took photos and X-rays and performed thorough dental exams—much like one a dentist might perform at a regular dental checkup—on cadavers. As the week progressed, they simulated scenarios such as missing persons, natural disasters and transportation accidents with multiple casualties. Military dentists can easily adapt these scenarios to situations that arise in armed conflict.

"The first thing we do is take away apprehension around the morgue," says Sweet. "Military dentists are accustomed to working in war zones, but dealing with the deceased presents a different challenge."

In order to verify the identity of a victim, forensic dentists collect a large amount of information, which is then checked against an Interpol database for possible matches. The process requires exquisite attention to detail, critical thinking and the ability to apply dentistry skills differently, under extreme circumstances, says Sweet.

"For example, one of the core skills of a dentist is to read what are essentially two-dimensional 'shadows' on an X-ray image



Military dentists from The Netherlands, Canada and New Zealand undertaking advanced training in disaster victim identification during a course through BOLD at UBC.

and be able to reconstruct it three-dimensionally," says Sweet. "Such skills can be put to the challenge when you're comparing a partial jaw or fragments of teeth to dental records."

"Yet the stakes are much, much higher because you want there to be no doubt that you're returning to the family what may be the only remains of their loved ones."

On the final day, trainees must take on a case, extract clues and defend their conclusions in front of an identification tribunal. If successful, they are handed a coveted certificate.

For his part, Sweet is looking forward to training more international responders now that NATO and ABCA have made the BOLD course their standard for forensic dentistry training (see sidebar).

"These remarkable military dentists have what it takes," says Sweet. "All we do is give them the confidence to do it."

Adapted with permission from UBC Public Affairs; published in *UBC Reports*, Nov. 21, 2013.



Military dentists undertaking training in doing a dental exam on cadavers in the morgue.

Watch an interview with Dr. David Sweet discussing the forensic identification course for trainees from NATO and ABCA at <http://news.ubc.ca/2013/11/19/bold>

Read more about the Canadian military training with BOLD in the article "Canadian Forces Partners With BOLD" in the spring 2011 issue of *Impressions* at <http://bit.ly/HBju99>

BOLD Training a 'Touchstone' for NATO and ABCA

The Royal Canadian Dental Corps, a dental services branch of the Canadian Forces (CF), ensures that the dental care provided to CF personnel, whenever and wherever it is needed, is of the same standard as that provided to the Canadian civilian population. To ensure this standard is met, the Dental Corps identifies community "touchstones"—organizations that hold the broadly recognized standard or expertise for a particular dental discipline. These touchstone organizations are commissioned to provide training for CF dental personnel.

UBC's Bureau of Legal Dentistry (BOLD) is the Canadian Forces' community touchstone for forensic odontology standards in Canada, particularly with respect to disaster victim identification, or DVI. CF personnel are sent to BOLD at UBC Dentistry for training. Participants who successfully complete BOLD's forensic odontology and DVI training receive a certificate to indicate he or she has met the standard.

The Canadian Forces put forward a proposal by Colonel James Taylor, UBC Dentistry graduate (DMD 1984) and the CF's senior ranking dental officer, that the CF standard through BOLD could be established as a standard for NATO. NATO's customary touchstone, the Armed Forces Institute of Pathology in Washington, DC, was no longer running DVI training courses due to cutbacks in the US military budget. NATO accepted BOLD as its touchstone and sent the first team, from The Netherlands, for training in the summer of 2013.

Taylor also proposed that BOLD be recommended as the ABCA touchstone. New Zealand military dentists, sent to review the BOLD program, took the training alongside the Dutch participants. The New Zealanders reported the course was so good that it would be best to continue sending personnel to UBC Dentistry's BOLD rather than trying to duplicate the training in New Zealand.

BUILDING BETTER IMPLANTS

Cell by Cell, Nanometre by Nanometre

BY MARI-LOU ROWLEY

With new tools to treat patients, today's dentists are able to perform procedures that were formerly done by specialists. UBC dentistry professor Don Brunette is working at the micro- and nanoscale to design implant surfaces that increase tissue growth and accelerate healing.

Dental implants have come a long way since the Mayans first used shells to replace missing teeth. Today, titanium implants—bionic high-tech roots that anchor artificial teeth into the jawbone—provide an attractive alternative to bridges or dentures. Titanium is corrosion resistant and has the highest strength-to-weight ratio of any metal, making it the material of choice for not only dental implants, but other medical implants and prostheses as well.

Dr. Donald Brunette, professor of oral biology, pioneer in the field of cell-biomaterial interactions and co-editor of *Titanium in Medicine*, has spent much of his distinguished career working with the metal. "Titanium reacts with oxygen to form a corrosive-resistant surface that is also very biocompatible," he says. "It attaches well to cells, so the implant can be well integrated into the body."

Brunette was also the first person in the world to study the role of microfabricated surfaces on cell behaviour. His breakthrough in biomaterials led to the development of novel dental implants by a Vancouver manufacturer and later by a US firm. While implant manufacturers claim high success rates—over 95 percent—Brunette notes that these are under ideal conditions with careful case selection and the best surgeons and prosthetic care. In the general community, however, failure rates have been estimated as high as 30 percent.

A major risk factor with implants is failure to osseointegrate correctly with bone. Peri-implantitis, an inflammatory condition of the mucosa and/or bone around the implant, can also lead to bone loss and eventual loss of the implant. Patients who have chronic health conditions, have poor oral hygiene or are heavy smokers are more likely to develop the condition.

"The challenge for the future is to develop implant surfaces that are so good they can supersede these other conditions and provide a more foolproof, routine procedure with a high success rate," Brunette says.

Brunette and colleague Douglas Waterfield, newly retired associate professor in Dentistry, recently received \$685,000 from the Canadian Institutes for Health Research (CIHR) for their work on the regulation of cell behaviour by implant surface topography. Ranked as the number one application by the CIHR Biomedical Engineering peer review committee, their project has the potential to reduce dental implant failure and to improve implant tissue integration for a wide array of clinical applications.

Continued next page



Outside the lab, Drs. Babak Chehroudi (L) and Douglas Waterfield (C) are avid motorcyclists. Dr. Don Brunette is seen through a reflection on a titanium surface.

Using Form to Alter Function—Improving Bone Formation on Implants

Until recently, altering cell behaviour was thought of as a biochemical process involving interactions with hormones or growth factors. Brunette has shown that form also alters function—at the molecular level and nano-scale. He has been investigating how different cells and tissues respond to different types of implant surfaces, and specifically, how dental implant surface topography influences the formation of bone.

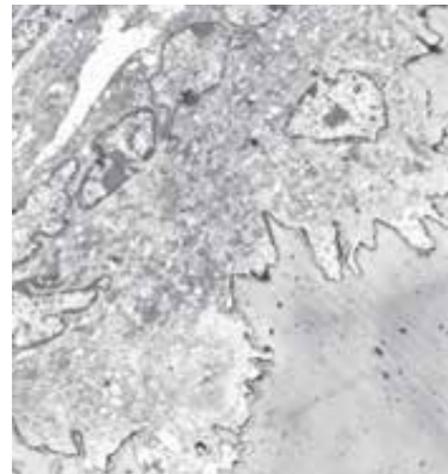
“When you insert an implant, you want the surface to induce cells to make bone, so that the implant gets firmly anchored,” he says.

Imagine a machine shop combined with an artist’s printmaking studio where the surface designs are of micro- and nanometre dimensions. Brunette and colleagues compared different implant surface topographies—polished, etched, machined, finely blasted, coarsely blasted, titanium plasma-sprayed, and sandblasted and acid-etched (SLA)—in rat models, to better understand how these surfaces interact with cells and tissues.

Using high-resolution transmission electron microscopy (TEM), they were able to identify the cell type and the distribution of matrix and minerals on each implanted surface. After two weeks, they found collagen bundles (a major component of bone) near the smoother-surfaced implants. However, rougher surfaces showed an increase in the number of macrophages (see sidebar), with the SLA surface becoming entirely covered.

“With our CIHR grant, we first had to find out what the macrophages were doing and why there were so many of them,” says Brunette. In particular, they wanted to shed light on the role of macrophages in bone formation and the longevity of implanted devices. Although macrophages are essential for wound healing, their role in the inflammatory response, including rapid calcification in diseases such as atherosclerosis, has previously been considered detrimental to implant–tissue integration.

Healing around implants, however, is a complex series of responses—including inflammation. In a study led by Dentistry clinical professor Babak Chehroudi, Brunette and colleagues demonstrated that on rough surfaces, greater macrophage accumulation is associated with the rapid formation of bone-like tissue.



Transmission electron micrograph of macrophages attached to a titanium-coated SLA surface implanted in a rat.

However, on grooved microfabricated surfaces with each facet being smooth, mineralization was extensive but less rapid. Along with graduate students, the research team is now working to determine the molecules that mediate surface interactions.

“We found two kinds of mechanisms leading to bone formation. On rough surfaces, the macrophages are driving the process, and on grooved surfaces, it is enhanced collagen production followed by mineralization,” Brunette explains. “The potential is that we could combine the benefits of the two surfaces—such as putting a rough surface on the facets of a grooved surface—to develop better implants.”

Macrophages—Nature’s Roughriders

Macrophages, the “Pac-Man” defence system of cells, voraciously engulf and digest cellular debris and pathogens. Derived from the Greek “big eaters,” macrophages are white blood cells produced by the division of monocytes, and are found in all tissues of the body in various forms with various functions, including tissue repair, inflammation and immune response. With respect to implants, macrophages prefer rough surfaces as opposed to smooth—a phenomenon called “rugophilia.” UBC Dentistry postdoctoral fellow Katrin Barth and prosthodontics graduate student Angela Wong found that the macrophages on rough surfaces also produce more “come hither” cytokines that result in the accumulation of even more macrophages.

Topography → Morphology → Physiology

How Surfaces Shape Cell Behaviour

The interaction between all cells and surfaces is a dynamic, elaborate dance—both orchestrated and improvised. In Brunette’s recent in vitro studies, it appears that the nanoscale “dance floor” determines not only what the dance is, but also who goes home with whom and the offspring they produce. In their quest to understand macrophage accumulation on rough surfaces, Brunette and colleagues have shown how surface topography activates different signalling pathways that affect cell function.

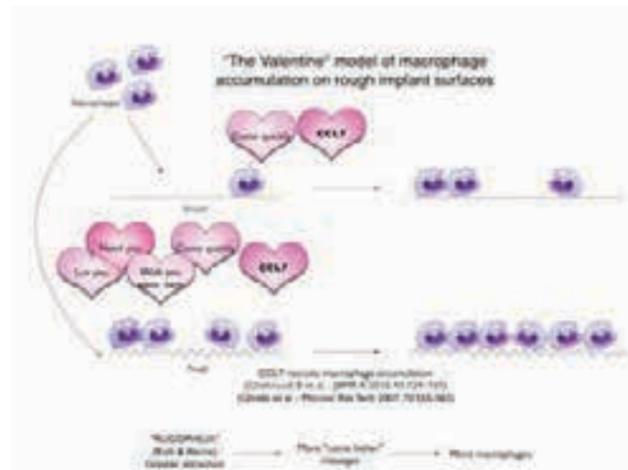
“By changing the surface topography you alter the shape of the cell and the cytoskeleton inside the cell,” he explains. “This in turn mediates cell signalling, which leads to changes in gene expression and function.” In modified microenvironments, they have demonstrated that cell-to-cell interactions could also be modified, thereby creating

a feedback loop for ongoing cell signalling, gene expression and so on (see diagram).

“A single surface topography will not serve all tissues equally well, since cells of different origins prefer different surface roughness,” Brunette says. His group’s findings suggest it is also possible to design microsurfaces that support attachment and function of specific cell types with various implants.

With strong ties to researchers across the country, as well as in Switzerland and Japan, he notes that dental research, like all research, depends upon collaboration across faculties, disciplines and countries.

“The pace of research has accelerated so much that we just don’t have time to develop all the necessary techniques in our own lab. Working with collaborators is not only a more efficient way of doing research, but it can also lead to a wider range of applications.”



Writing the Book on Critical Thinking

Dr. Donald Brunette’s numerous accomplishments include the W.W. Wood Teaching Award from the Canadian Faculties of Dentistry, awards from the International Association of Dental Research and an award from the American Medical Writers Association for his book *Critical Thinking: Understanding and Evaluating Dental Research*. First published in 1996, with an expanded second edition in 2007, the book is considered a primary text for dental students, practitioners and educators. It has been translated into Japanese and was instrumental in Brunette being awarded an honorary PhD by the Nippon Dental University. Established in 1907, Nippon is the largest dental school in Japan. Brunette’s award is only the 13th presented in the university’s history and is conferred through a rigorous selection process.

Brunette is former head of the departments of Oral Biology and Oral Biological and Medical Sciences, and former associate dean of Research and Graduate Studies. As consultant to three biomaterials journals and the American Dental Association’s Council on Scientific Affairs, he believes the tools of critical thinking—logic, rhetoric, hypotheses and causation—are required now more than ever. With both students and institutions embracing online learning, Brunette—along with many professors and teachers today—uses web-based tools. He acknowledges, however, that while technology provides the tools that facilitate his research, it can also lead to a dampening of creativity.

“Students can access a program called Critical Evaluator, which uses templates to help them evaluate research articles. It also has glossaries to explain terms, so it pretty much guarantees that anyone can do an adequate job without having to think deeply about a problem,” Brunette says. “This results in less variation in individual performance, and now I’m seeing fewer students with weak performances, but also fewer students with original insight and creativity.”

Streamlining the Delivery of Complex Care: A New Graduate Specialty Clinic

Monarch Supports a Dynamic Learning Environment for the Clinical Specialties

Dr. John Hung from Monarch Pediatric Dental and Orthodontic Centre is seen here in the John B. Macdonald Building where space is being renovated into UBC Dentistry's new graduate specialty clinic. The clinic will be a dynamic and interactive learning environment for students in five clinical specialties, enabling them to streamline the delivery of complex care to their patients. Monarch dentists, committed to providing comprehensive care and treatment to children, place high value on excellent dental education and access to care for children, especially those facing financial hardships. Monarch is pleased to support this student clinic initiative by funding the computer workstation in the facility.

The dentists at Monarch Pediatric Dental and Orthodontic Centre have generously supported UBC Dentistry for many years. They have volunteered as clinical instructors, have provided practicum opportunities for students taking the pediatric elective, and have hosted students in the Summer Student Practitioner Program. Monarch has also supported UBC Dentistry student awards, bursaries and, most recently, fellowships for each of the graduate students in Pediatrics over their three years of education. UBC Dentistry is very grateful that Monarch Pediatric Dental and Orthodontic Centre is further providing resources for student education by funding the computer workstation in the new graduate specialty clinic. We highly value our partnership with Monarch.

Dr. John Hung

Integrated Graduate Specialties Benefit the Multidisciplinary Patient Case

BY HEATHER CONN

Annie (a pseudonym), a 30-something female patient, needed braces to help close a gap between her front teeth. She also required stabilization of the natural bone above her upper front teeth before receiving surgery for an implant and crown, and to avoid a major bone graft.

But unlike many people who require complex dentistry, Annie did not have to visit multiple clinics or make appointments with separate offices. Instead, three UBC graduate specialty students based out of the Nobel Biocare Oral Health Centre shared their combined expertise to create a comprehensive treatment plan.

These three residents—Esther Feldman (orthodontics), Valentin Dabuleanu (periodontics) and Diego Ardenghi (prosthodontics)—communicated easily in person while conferring with their respective professors in each specialty area. (A fourth student, Marina Braniste in endodontics, was consulted early on in the assessment phase.) This combined effort to achieve a shared solution reflects UBC's integrated educational approach.

While discussing treatment options for Annie, each resident gained insights into a different specialty area as applied to the same patient. "The learning flow is very easy among the various disciplines here [at the Nobel Biocare Oral Health Centre]," says Ardenghi, who received his undergraduate dentistry degree in Brazil. "We just had to ask for an orthodontics consultation and the professor was able to come right away. We didn't send the patient home to wait."

"Having the clinical specialties work side by side is a big benefit to both patients and residents,"

says Dabuleanu, a 2010 graduate of the University of Toronto's dental school. "When coordinated in advance, residents from different specialties can consult a patient all in one visit."

The team's rapport and effective intercommunication skills plus the patient's own positive approach made this case particularly memorable, says Feldman, a McGill University dental school graduate. "The three of us worked very well together. She [the patient] is wonderful and always smiling. She was very receptive to everything and never complained." The patient even shared home-baked pastries with her dental team.

Dabuleanu acknowledges that the clinic's multidisciplinary approach teaches him to think more like an orthodontist, when such work is needed, and to fine-tune his related surgical skills. "Although as a dentist I was trained in orthodontics [as a generalist], the graduate training I'm receiving at UBC allows me to see the finer details in every case, so that we can strive to achieve the ideal treatment outcome."

The periodontics resident said that he appreciates the clinic's blend of theoretical and hands-on learning. "Our graduate training is a hybrid of reading the research literature and the clinical experience of our instructors in different specialties," he says. "I'm getting a solid combination of clinical and didactic training here."

Dabuleanu readily acknowledges the overall benefit to patients of UBC's multidisciplinary approach, which includes pediatric dentistry. "Patients at UBC are getting the best possible care they can get. All their needs are covered."

Currently, each specialty program area has its own wing within the oral health centre. Dabuleanu, Feldman and Ardenghi agree that a new, reconfigured space, which would provide



TODAY

FUTURE

a dedicated graduate specialty clinic in one area, would definitely benefit dentistry residents.

"In one centralized location, you could observe the other disciplines working more effectively," says Ardenghi. "If your patient missed an appointment, you could easily visit the other disciplines and learn a treatment from a different perspective," he adds.

An integrated space would make the working atmosphere of the grad specialty program more efficient and organized, Feldman says. "Having a dedicated space for the specialty residents would be the next best thing to a multidisciplinary private practice."

UBC Dentistry plans to create a new grad specialty clinic in the John B. Macdonald Building. Fundraising for this effort is under way.

To learn more about opportunities to support the revitalization of the John B. Macdonald Building, contact the UBC Dentistry Development Team at 604-822-5886

Various donor recognition levels and naming opportunities are available. Charitable receipts for tax purposes are issued for all donations.

Read the article "Time for a Graduate Specialty Clinic" in the spring 2013 issue of *Impressions* magazine online at www.dentistry.ubc.ca/time_grad

Read more about JBM renovations and the generous supporters online at www.dentistry.ubc.ca/jbreno

UBC Dentistry Education: Building Teamwork in Clinical Practice . . .

Dental hygiene students and dental students travel many of the same paths during their education at UBC. By learning together, they gain an understanding of each other's educational foundation and full scope of practice. Well before graduation, these future professionals develop the social skills and technical experience of working together as an effective member of a dental team. Here are a few examples of where their respective curriculums intersect:

1. Third-year dental hygiene students and third-year dental students learn local anaesthesia together.
2. First-year dental students act as clients for second-year dental hygiene students to practise oral assessments. Dental hygiene students conduct extra-oral, intra-oral, periodontal, dental and occlusal exams on the dental students, as well as give oral hygiene instruction. The dental students learn about the hygienist's patient assessment and about their own oral health status.
3. In a reciprocal arrangement, the second-year dental hygiene students act as patients for first-year dental students in their Introduction to Patient Assessment module. The dental hygiene students participate in three clinical examination skills sessions.
4. Third-year dental hygiene students share their knowledge and skills in oral hygiene assessment and oral care aids selection and use with first-year dental students who are about to embark on community health promotion in the Professionalism and Community Service program.

Graduate periodontics students also share paths to learning; they provide clinic-based consultations for dental hygiene and dental students and their patients during the provision of initial therapy and following re-evaluation. The specialist consultation during this clinic time helps build foundational knowledge in diseases of the periodontium.

Dental Hygiene Students Add Flavour to SuperChefs at Fusion Festival



The lineup of performers and presenters at the Surrey Fusion Festival, billed as “the ultimate celebration of music, food and culture,” had some added gusto this year—Greg Chang DMD 1986 and his SuperChefs Cookery for Kids chefs were on site, with both a booth and demonstrations on the Safeway Celebrity Cooking Stage. UBC dental hygiene students joined them throughout the weekend event (July 20 to 21), adding a whole lot of flavour.

“The aim of SuperChefs is to target childhood obesity,”

says Si-si Xu, a third-year dental hygiene student. Xu, along with Sharan Flora (also a third-year student), Nora Tong (fourth-year student) and recent graduate Eric Mok BDSc 2013, provided oral hygiene instructions at the SuperChefs booth.

Foods that tend to cause obesity happen to be the sugary, empty-calorie foods (junk food, pop, candy, non-dark chocolate), and these foods also cause dental caries (cavities). Frequent snacking increases caries risk and can also lead to unhealthy weight gain.

“Some families may not be very aware of this, even though they might know sweets can cause cavities, so our aim is to raise this awareness for parents and kids,” Xu says.

The dental hygiene team shared information about foods that have health benefits (cheese, for example, can neutralize acidic oral environments) and which foods to eat less of (candies and sweets). They also stressed the importance of brushing and demonstrated proper brushing techniques.

Children were encouraged to show what they learned or to show how they brush. They were then offered tips on how to improve their technique. Those who participated in the brushing demonstrations and could answer some simple oral health questions were given toothbrushes.

UBC DENTISTRY 50 YEARS  THE UNIVERSITY OF BRITISH COLUMBIA

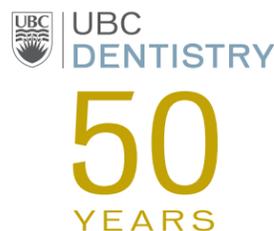
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WINTER – SPRING SIGNATURE EVENTS



UBC Dentistry Research Day 2014

UBC Alumni: Advancing Craniofacial Health
Showcasing alumni research over the 50 years
January 28, 2014 (Tuesday daytime)
UBC Student Union Building Ballroom

UBC DENTISTRY CELEBRATES 50 YEARS AT THE PACIFIC DENTAL CONFERENCE

Join the fun as we celebrate our milestone anniversary during the PDC!
March 6 - 8, 2014 (Thursday - Saturday)
Vancouver Convention and Exhibit Centre, West Building

UBC Alumni Speaker Series

Attend presentations by notable alumni in the Scientific Program
March 6 - 7 (Thursday - Friday daytime)
March 8 (Saturday daytime)

UBC Dentistry Open House and Barbecue Lunch

Tour the dental school and connect with students
March 8 (Saturday daytime)
Nobel Biocare Oral Health Centre, UBC Point Grey Campus
Transportation from the Vancouver Convention and Exhibit Centre will be arranged
Register at www.dentistry.ubc.ca/50years

Alumni Lounge on the Exhibit Floor

Relax and mingle
March 6 - 7 (Thursday - Friday)
8:30 am - 5:30 pm
PDC Exhibit Hall near Lounge 2

UBC Dentistry Annual Alumni Reception

Celebrating 50 Years of the Faculty of Dentistry
March 7 (Friday) · 6 pm - 8 pm
Vancouver Convention and Exhibit Centre, West Ballroom Foyer

Chinese Canadian Dental Society of British Columbia

26th Annual Gala Extravaganza
Proceeds will support UBC Dentistry community outreach
May 17, 2014 (Saturday evening)
Hyatt Regency Vancouver

THANK YOU TO OUR FIVE EXCLUSIVE SPONSORS OF UBC DENTISTRY'S 50TH ANNIVERSARY



For event times, visit www.dentistry.ubc.ca/50years, where you will also find ongoing information and announcements about all the celebrations.

SUMMER – FALL SIGNATURE EVENTS

UBC DENTISTRY 50TH ANNIVERSARY WEEKEND

Celebrating 50 years of the Faculty of Dentistry at UBC
September 19 - 21, 2014 (Friday - Sunday)

Welcome Reception and BZZR Garden

September 19 (Friday) · 5:30 pm
Student Lounge, John B. Macdonald Building, UBC Point Grey Campus

UBC Dentistry CDE Symposium

September 20 (Saturday) · 9 am - 4 pm
Lecture Theatre 2, Woodward Instructional Resources Centre, UBC Point Grey Campus

FIFTY FABULOUS YEARS THE BASH! At the Commodore Ballroom

Featuring the faculty/alumni band and special guests
September 20 (Saturday) · Doors open at 7 pm
The Commodore Ballroom, 868 Granville Street, Vancouver, BC
For tickets, click www.dentistry.ubc.ca/50years

Annual Alumni & Friends Golf Tournament

September date and location to be announced

UBC DENTISTRY 50 YEARS | THE UNIVERSITY OF BRITISH COLUMBIA

FIFTY FABULOUS YEARS

The BASH!
At the Commodore Ballroom

FEATURING THE FACULTY / ALUMNI BAND + SPECIAL GUESTS

SATURDAY, SEPTEMBER 20
DOORS OPEN AT 7PM

Commodore Ballroom
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THE UBC DENTISTRY 50TH ANNIVERSARY FUND

Enhances student experience

- John B. Macdonald Building renovations
- Student awards and bursaries



Increases community involvement

- Local, provincial and international field work to treat at-risk populations
- Volunteer curricular and non-curricular community programs



Amplifies research productivity

- Graduate research initiatives
- Chairs and professorships

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DMD Clinical Rotations Flow Into the Fraser Valley— The ‘Surrey Clinic’



The Pacific Oral Health Centre in Surrey, BC.

Step into the Pacific Oral Health Centre (POHC) in Surrey, BC, and you will discover a vibrant environment where affordable and accessible oral health care is provided to financially challenged individuals. Dedicated dental professionals—including UBC dental students—help make that possible.

As of September 2013, the UBC Dentistry Integrated Clinical Care module for fourth-year dental students has included weekly rotations to this clinic in Surrey. The clinical landscape is different from that at the UBC Point Grey campus: in Surrey, students work at multiple chairs, see more patients and have dental assistance. Thus, it provides learning opportunities that are not available on campus, but contribute to the career development of dental students.

The Pacific Oral Health Society, the non-profit agency that runs the clinic, notes on its website that, prior to 2013, low-cost dental care in the Fraser Valley—now home to almost 600,000 people in the three municipalities of Delta, Surrey and White Rock—was almost non-existent. It states there is a “substantial need for oral health care among those who could not access it through conventional dental care settings.” The society’s mission is to address this need.

After lengthy consultation with dental professionals, local and provincial governments, and UBC Dentistry, the society opened its clinic facility in March 2013. In April, a successful community clinic day offered free dentistry, courtesy of volunteer dentists and UBC students, to people in need. (For more on this day, visit <http://bit.ly/19eyv8F>.) Dental students also treated patients at the Surrey clinic in the break between their third and fourth years, through the Student Summer Practitioner Program.

Dr. Jim Richardson, the director of Integrated Clinical Care, has worked hard to introduce the POHC clinic rotations into the fourth-year clinical education. Dental students are at the Surrey clinic in groups of five, for three full days a week, two weeks in a row. A full day enhances the learning and treatment opportunities by allowing a mix of longer and shorter appointment times. Over the year, each student will have six to seven experiences at the clinic.

In contrast to the structure at UBC’s Point Grey campus clinic, at the Surrey clinic students

experience working in a multi-chair/multi-patient setting—a scenario that better emulates the time and motion of a busy dental practice. Additional parallels to real-world practice include a close working relationship with a certified dental assistant, which helps streamline treatment, allowing more patients to be treated each day.

Treatments are often planned in advance, and the students implement the prescribed treatment under supervision, with a student-supervisor ratio of five to one. This ratio expedites care—students experience quicker specialist consultations with their dentist-supervisors, which further reflects the general practice realities of many graduates.

At the heart of this mutually beneficial relationship between the Faculty of Dentistry and the Pacific Oral Health Centre is a shared common value of serving the community, and more specifically, of providing access to oral health care for those who would otherwise not receive it. The rotation to Surrey provides students access to patients who cannot travel all the way to Point Grey, but who have the types of oral health care needs that dental students are capable of providing, and the patients receive dental care at a fee lower than the provincial fee guide. And, says Richardson, “the skills developed by students at the Surrey clinic will transfer to the oral health centre at UBC Dentistry.”

Dr. Charles Shuler, dean of UBC Dentistry, says: “Our students get to treat a different population of people, such as new immigrants and even whole families. They’ll see different patterns of disease and actually provide a service to people who really need it.” Shuler believes the experience has a humbling factor for students: “They’ll also start to develop a little more empathy for patients who have reduced access to oral health care. In the long run, they will develop the social responsibility we would like them to carry forward into their practice.”

For more information about the Pacific Oral Health Centre, visit www.pohs.ca. To watch a video of Dr. Charles Shuler discussing the benefits of student rotations at the location, click on the “about us” link.

DENTISTRY STUDENTS IN THE CHILCOTIN

Gratitude Goes Both Ways

BY HEATHER CONN

For thousands of years, she has stood, curved and strong, along the Chilcotin River in north-central BC. Made completely of rough stone, her broad head projects diagonally from her long, narrow base less than two metres below. Throughout the year, flowers and personal items lie beneath her as offerings from local people, both Aboriginal and non-Aboriginal. Sculpted naturally by time and nature, she is known as The Woman Who Turned to Stone, with her own legend, revered by local First Nations such as the Tsilhqot'in (Chilcotin) of Alexis Creek.



This past July, members of the Tsilhqot'in band brought a group of UBC Dentistry volunteers, which included 15 students, eight dentists, a dental hygienist, a dental assistant, two instructors and two Rotarians, to this sacred site. Standing amidst dried scrub, in the middle of a hill, they presented offerings to the hallowed figure.

The group was there as part of UBC Dentistry's first outreach clinic for the Tsilhqot'in on their remote Tl'etincox (Anaham) reserve, about

110 kilometres west of Williams Lake. In such an isolated spot, where previous Tsilhqot'in members had died during teeth extractions in the residential school era, the arrival of non-Aboriginal outsiders could have easily provoked distrust and a refusal to participate.

But Tsilhqot'in chief Joe Alphonse ensured that this clinic was conducted with the utmost cultural sensitivity. With the help of First Nations elders, and council and band members, he immersed the UBC visitors

Dental Outreach: A Caring Vision

The UBC Dentistry clinic at Anaham came together in less than a year, says Tsilhqot'in chief Joe Alphonse. Last winter, he met with faculty dean Charles Shuler at UBC's dental school. During the same period, UBC Dentistry faculty member Bill Brymer and Jenn Parsons, UBC Dentistry's manager of Alumni and Community Affairs, plus two Rotarians, Bob Blacker and Shirley-Pat Chamberlain, visited Alphonse's reserve.

Several years earlier, Blacker, a district governor of almost 100 Rotary Clubs in BC, and Chamberlain, grants officer at the Thompson Rivers University campus in Williams Lake, initiated interest in Anaham as a clinic location. Blacker and Doug Nielsen, a UBC Dentistry alumnus and Rotarian, had already set up a similar outreach clinic in the isolated Penelakut First Nation community on an island near Chemainus.

Blacker and Nielsen were inspired by the 2010 project Write to Reach, created by the former lieutenant governor of BC Steven Point, to increase literacy in the province's remote communities. They wanted to apply a similar approach using dentistry, says Brymer.



PHOTOS BY JENN PARSONS

in his people's traditions, from drinking soapberry juice to sharing community dinners of bannock and wild game. Along with Tsilhqot'in members, they played *slahal* or *lahal* ("bones" in English), a traditional game in which two teams try to guess who has a striped deer bone hidden in their fist; opposing team members choose fun distractions to thwart correct guesses.

The students stayed on the Anaham reserve, where several dozen wild horses arrived regularly to graze. They saw spectacular Farwell Canyon, its high ridges of limestone and sandstone hoodoos spread above the churning whitewater of the Chilcotin River. Once the site of a First Nations village, it still bears ancient pictographs on a cliff. From a nearby bridge, the visitors watched a skilled Aboriginal fisherman, roped to a rock with a safety harness, use dip nets to catch salmon in the rapids. Daniel Berant, who graduated last year from UBC Dentistry, says of his time there:

"For me, this [visit] was a realization of the variety of cultures we have in our own province that we're not aware of."

Before the UBC students provided any clinical treatments, the chief had Grant Alphonse, a Tsilhqot'in council member and principal of Anaham's elementary school, and Annette Frank, a certified teacher in Tl'etinqoxti language, brief them on what they could expect in communicating with their First Nations patients. Here are a couple of things the students learned:

- In traditional Tsilhqot'in culture, only a healer spoke directly to a patient; no one else was allowed to talk. The patient remained the focus. Therefore, today's behaviour in some medical and dentistry offices, such as a practitioner flirting with an assistant, laughing or discussing a recent movie while with a patient, is considered rude.



PHOTO COURTESY OF CONNIE JASPER

The Woman Who Turned to Stone.

- Since some Tsilhqot'in members do not speak English, they might agree to a procedure without understanding what it is. Silence does not mean agreement; it might mean fear and someone's readiness to flee. Local fluent speakers in the native language, such as Annette, would be on-site to translate.

Cultural sensitivity or competency—respecting and understanding Tsilhqot'in values, beliefs and lifestyles—was an integral part of the students' volunteer clinic experience, as was hands-on dentistry. This approach represents a significant contrast to the nightmarish stories of abuse within residential schools that the students heard during their visit.

In Chief Alphonse's words:

"The more cultures you meet, the more complete a person you are and the better a person you become."

By visiting the honoured sculpture along the Chilcotin, the UBC group gained an understanding of what practices have shaped the Tsilhqot'in nation's culture and way of life. "I saw how connected they are to the land," says clinic supervisor Evans Wiens, who graduated from UBC Dentistry in 2012. "They live how they've always lived."

Until 2010, that life included no local dental service for the roughly 1,200 people on the Anaham reserve. That year, a new state-of-the-art clinic opened with two dentist chairs, thanks to sponsorship from Health Canada and fundraising efforts by the Tsilhqot'in.

But the community had no funds for a dentist. In recent years, a visiting dentist has come to Anaham every other week. Otherwise, patients face a nearly two-hour drive to Williams Lake or even further to Quesnel or 100 Mile House to get treatment. Unless they are in extreme pain, most choose not to see a dentist. "It [dentistry] is a service that's much, much needed in our community," says Chief Alphonse.

The UBC student group augmented the Anaham clinic's two dental chairs with dentistry instruments and four portable chairs and dental units. After setting up in a meeting room, they were soon treating

patients, from young children to people in their 90s. Entire families arrived. Knowing that some had driven two hours to receive treatment was "a pretty awesome feeling," says Carlee Beuk, a second-year UBC Dentistry student.

Their clientele were fearful and nervous at first, Wiens says, but soon relaxed and trusted their dentistry guests after experiencing respectful communication, patience and relief from long-time pain. Some patients hugged their dentist after a procedure; others left with big smiles. "I heard one lady tell a girl going into third year: 'I want you to be my dentist all the time,'" says Beuk.

Fourth-year student Anderson (Yao-Sheng) Hsu says: "One woman told me: 'Wow, you did a great job. I didn't feel that [needle and extraction] at all.'"

During the clinic, UBC students and their team leaders saw 75 patients, mostly Aboriginals, over two and a half days. They conducted 93 procedures, primarily extractions and basic restorative work, providing almost \$18,000 worth of treatment without payment, says Wiens. (In Tsilhqot'in culture, there is no sense of receiving free service, says Grant Alphonse, since such benefits always involve giving back in some form. In this case, the Tsilhqot'in provided food, accommodations and entertainment and ensured that their guests felt comfortable throughout a variety of hosted activities.)

Grant Alphonse says he was nervous before receiving a filling, concerned that the UBC students might not be experienced enough. "I thought they'd be really rough," he says, "but they were really careful and doing a good job."

Besides acting as translator, Annette Frank had a cleaning, checkup and adjustment of her crown during the UBC clinic. "I really liked it," she says. "They [students] really explained what they did. They were detailed." She contrasted this to hurried dental service she had received in Williams Lake, which involved no explanation of procedures.

Frank laughed when recalling comments made by a 68-year-old, long-time Tsilhqot'in widow, who had six remaining front teeth cleaned. "She said: 'Now tell me if I'm going to find a man or not.' I said: 'Anything's

possible.'" This same woman had seen a dentist only twice in her life; she said that going to dentists in Williams Lake scared her.

"It [the clinic] was healing for some of our members," says Chief Alphonse. "All of their teeth were rotting. To see them getting all their teeth extracted after 40 years of not trusting anybody. . . . Wow."

When not in the clinic, the students experienced a traditional sweat lodge that focused on gratitude. "I felt very honoured to be invited in, listening to the hissing of the lava rocks and the steam, and being grateful," says Hsu. "This community was built on gratitude for what's around them."

Beuk's favourite activity was sitting around a table with Tsilhqot'in women sewing beads and buttons onto deer hide to make a medicine bag or pouch. "It's something we could take back and keep with us, to remember this," she says.

Hsu reinforced the welcoming warmth of the Tsilhqot'in people.

"They treated us like family. We showed them that we cared for them, and they responded back."

Today's students and their dedication to volunteer dentistry, social responsibility and related cultural understanding reflect a new generation of dentists, says UBC clinical assistant professor Bill Brymer. Having taught at UBC since 1975, he says that he has witnessed a positive change in student attitudes over the years. "They're less self-involved now and are aware of people who are disadvantaged," he says. "They want to give back." Everyone in the visiting UBC group paid their own way to attend the clinic.

Chief Alphonse praised the students' professionalism and rapport with patients. "Some wonderful, wonderful students are going to excel in their chosen career," he said.

Most of the patients plan to wait until next year to get work done again in a UBC-run clinic, rather than receive dental care in the interim, Frank says. "Every person that went through [the clinic] was saying: 'This is really good. We hope they come back.'"

After 20 Years of Neglect, Dentistry 'Cubs' Appreciated

After 20 years of no dentistry visits, Anaham Aboriginal elder Frank Setah was in pain, with a mouth full of rotting teeth.

"They were rotting to my gums," says the 61-year-old, who has lived on the remote Anaham reserve his whole life. "I stopped going to the dentist because they were charging me too much. I didn't have enough money."

This past summer, he made an appointment with the UBC Dentistry clinic on his reserve, which did not charge fees. After he had two rotten teeth pulled, he left without a toothache. His wife Nancy, who arrived with a sore mouth, also felt better after having a tooth pulled.

At first they were "a little bit nervous," Setah says, but they were happy with the treatment they received. "These guys [dentistry students] were just learning, but they'd tell you what they were going to do," says the grandfather of 22 and great-grandfather of 10. "These cubs are pretty good."

During his six years in residential school, Setah had dental checkups and one tooth pulled. Later, as an adult, he had two teeth pulled but left the clinic still in pain. "He [the dentist] didn't tell you to come back."

The elder says that he would like to visit a UBC Dentistry clinic at Anaham again and have his remaining rotten teeth removed. "It's too expensive to go to Williams Lake."

PHOTO BY JENN PARSONS
Chief Joe Alphonse (2nd R) is flanked by Dr. Christine Constabel and Bob Blacker, while David Hemerling DMD 1993 and second-year dental student Carlee Beuk look on.

Straumann Expands Digital Tools in the Clinic for Education and Treatment Planning

Mobile phones, tablets, computers, operating systems and cameras—these digital technologies help us perform tasks that were unimaginable a few short years ago. A dental practice is full of tasks that would benefit from the application of digital technology.

By the time the current first-year class graduates, these new practitioners will likely use an intra-oral scanner to make digital impressions, rather than manually building impressions from elastomeric materials. Straumann Canada Limited understands the significant role digital technologies have to play in the education of young dental professionals. A recent gift by the company supports a new Digital Dentistry Education Centre within our undergraduate and graduate dental clinics in the oral health centre.

With anything digital, a lot of impact resides in a small space: the 6.3-square-metre (68 sq. ft.) room contains computer-aided design/computer-aided manufacture (CAD/CAM) technology. The technology is conveniently located in the clinic, accessible when and where students and faculty need it.

Three portable intra-oral scanners are also available for use around the clinic, and another scanner, which is directly linked to the computers in the digital centre, resides in an open operatory, also named for Straumann.

Straumann's digital centre allows students, after digitally capturing a patient's dentition and other surrounding oral structures using the portable scanners, to easily load the information into the CAD/CAM system to finalize their restoration plan. They can then either submit the technical specifics electronically to an outside dental laboratory, or make ceramic restorations on-site. The centre also supports the process of milling



At the entrance to the new Digital Dentistry Education Centre in the Nobel Biocare Oral Health Centre (L to R): From Straumann Canada Limited, Don White (former director of professional relations, now retired), and Dylan Bliss, regional sales director; and Dr. Chris Wyatt, professor and program director, Prosthodontics. The centre, supported by a gift from Straumann, opened on September 13, 2013.



Portable intra-oral scanners.

restorations, using equipment such as the Cerec 3D system located elsewhere in the oral health centre.

Straumann's gift to support new and innovative digital technology education is an ideal complement to UBC Dentistry's goal of ensuring that its curriculum and student experiences are at the cutting edge of the profession.

The Gift of Gratitude



Oral health professionals: Do you have a patient or client who wants to express gratitude for the outstanding oral health care he or she has been receiving?

May we suggest a gift to UBC Dentistry through the Show Your Gratitude Program.



Patients and clients: Have you received outstanding oral health care? Are you looking for a way to say "thank you"?

Expressions of gratitude toward your dentist, orthodontist, periodontist, oral surgeon, pathologist or dental hygienist can be made through a gift to UBC Dentistry's Show Your Gratitude Program.



Express your thankfulness in any amount—there is no minimum and a tax receipt will be issued. Tailor your gift to an expression of your passions and beliefs. Funds donated to the program may be directed to education, research or community service.

Tell us the name and location of your practitioner and include a few words of appreciation for the care you've received. We will then send your practitioner a customized note card with this expression of your thanks. Gift amounts will be kept confidential.

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To learn more, contact Jane Merling, director of Development & Alumni Affairs, at 604-822-5886 or merling@dentistry.ubc.ca
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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

1970s



Wayne Peace
DMD 1973

The Class of 1973 celebrated 40 years since graduation on the May 31 to June 1 weekend. The graduates stayed at the Nita Lake Lodge in Whistler, BC. After a fabulous welcome reception on the Friday night, alumni enjoyed resting in the beautiful lodge and continued their fun at a private dinner on the Saturday. In the photo from left to right: Ted Clarke and John St. Germain.

DMD 1974 REUNION

In celebration of 40 post-graduation years, Randy Patch and Don Anderson are planning a reunion at Tigh-Na-Mara Seaside Spa Resort, Parksville, BC, over the September 5 - 7, 2014, weekend. To confirm attendance, email Randy at docjr@shaw.ca



Doug Bing
DMD 1977

Doug was elected MLA for Maple Ridge-Pitt Meadows on May 14, 2013. He is the second dentist to be elected to the Legislative Assembly and is a member of the Cabinet Committee on Strong Economy, the Select Standing Committee on Health, and the Aboriginal Affairs Committee. (Continued next column)

1980s



Les Ennis
DMD 1987

Doug's interest in politics started early when he successfully ran for student council president in high school. At university he served as a student representative on the UBC Senate. In his professional life, he served on various committees and the council of the College of Dental Surgeons of BC.

For the past 33 years, Doug and his wife Helen Henderson DMD 1977 have called Pitt Meadows home. They established Pitt Meadows' first dental practice in 1980 and have been providing dental care to thousands of people from Maple Ridge and Pitt Meadows ever since. They have three adult sons.



Janice Cox
Dip DH 1978

The dental hygiene program at UBC Dentistry has graduated three generations of women in one family: Katie Russell BDS Sc 2013 (daughter), Janice Cox Dip DH 1978 (mother) and Jo Gardner BDS Sc 1998 (grandmother). Jo passed away in 2008, and as a legacy of her long career teaching at the Faculty of Dentistry, her family started the W. Jo Gardner Memorial Award in Dental Hygiene, which is given to a graduating dental hygiene student. In the photo from left to right: Katie's sister Rebecca Topnik with her grandmother's photo and degree, Janice Cox and Katie Russell.



Ed O'Brien
DMD 1978

Ed represented UBC Dentistry alumni at graduation on May 28, 2013.

The Semiahmoo Dental Outreach team of White Rock, BC, provided volunteer dentistry for the children of the remote village of Proyouth on the outskirts of Siem Reap, Cambodia, this past April. The team of 14 like-minded community volunteers worked out of a community centre with portable equipment supplied through The Dental Mission Project (www.thedentalmissionproject.com). The team included UBC Dentistry alumni Les Ennis DMD 1987, David Larsen DMD 1987, Liz Johnson-Lee DMD 1992, Rick Tabata DMD 1992, and friend of the Faculty Dr. Ken Stones. They treated 168 children over four days, and work included 134 extractions and 417 restored teeth—so these young ones could go through life with a smile! These children had never seen a dentist before, and it may be the last time they will ever see a dentist. Thus, it was important to also provide good oral health education, so every child received a toothbrush and had their teeth varnished.

The Canadian section of the International College of Dentists helped to fund the trip. Special thanks go to our physician, certified dental assistants, dental hygienist, support volunteers and more than 20 local young women who helped in the clinic.

KEEP IN TOUCH

www.dentistry.ubc.ca/alumni

REUNION DMD 1989

Brian Sully-Daniels and Ernest Lam are planning the DMD 1989 25-year reunion to be held this spring at the Blue Water Café following the class photos at the Pacific Dental Conference. For information, email Brian at drbsdinc@gmail.com



Tim Yan
DMD 1989

Recently Tim volunteered his time at Open Wide Community Clinic Day to deliver free dentistry at CDI College in Burnaby, BC, for clients of the Salvation Army and the YWCA. Other volunteers included Mark Casafrancisco DMD 2005, Jimmy Chan DMD 1996, Anita Gartner-Makihara DMD 1993, Ronald Gaudet DMD 1996, Christina Lo DMD 1993, Wendy Rondeau DMD 1979, Stephanie Song DMD 2003 and Metta Bhatt, a volunteer from the community.

1990s

REUNION DMD 1994

Reza Nouri is planning the DMD 1994 20-year reunion this spring at the Blue Water Café following the class photos at the Pacific Dental Conference. For information, email Reza at rezanouri@telus.net

PLANNING A REUNION?

For ideas, contact Jenn Parsons, manager of Alumni & Community Affairs, at 604-822-6751 or alumni@dentistry.ubc.ca

2000s



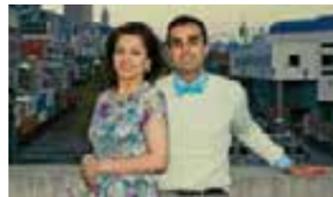
Chris Peck
PhD 2000

After Chris completed his PhD in structure–function relationships of the human masticatory system at the UBC Faculty of Dentistry, he returned home to Australia. He currently researches oral/facial pain—specifically the impact of pain on jaw function and how the brain changes with pain—and in 2010 became dean of the Faculty of Dentistry at the University of Sydney. Chris enjoys climbing mountains both in British Columbia and in Tasmania, Australia. He will be presenting at UBC Dentistry’s annual Research Day in 2014.



Gurjit Gakhal
DMD 2004

Gurjit and his wife Eryn enjoyed a trip to Las Vegas compliments of My Practice Matters, a division of Nadean Burkett & Associates. Gurjit won the trip at the Annual Alumni Reception at the Pacific Dental Conference in the spring.



Ruby Bhullar
DMD 2007

Ruby has been recognized as an associate fellow of the American Academy of Implant Dentistry. Also, on August 4, 2013, he married Dr. Davinder Sandhu in a Sikh ceremony in Richmond, BC.



Cindy Cho
DMD 2009

While she was a UBC dental student, Cindy volunteered at the Chinese Canadian Dental Society of BC dental health fair every April. Now she not only donates her time, but also coordinates current students for the event. This year six students donated their time. For information on volunteering next year, email Cindy at cindych@gmail.com

2010s



Derek DeCloux
DMD 2011

Derek represented the National Defence and Canadian Armed Forces Health Services Group in their booth at the Ontario Dental Association annual spring meeting. In the photo from left to right: Dave Hancin, vice-president and general manager of Dentsply Canada and Derek.



Doris Lok
BDS 2012

Doris is pleased to announce the birth of her son Jordan. He was born February 27, 2013, and weighed seven pounds eight ounces.



David Alfaro
MSc/Dip Pros 2013

Jonathan Ng
MSc/Dip Pros 2013

Angela Wong
MSc/Dip Pros 2013
DMD 2009

Congratulations to the first graduation class from the Clinical Specialty Graduate Program in Prosthodontics—a truly remarkable accomplishment for you all!

SHARE

Send an alumni story or update for “Class Notes” to alumni@dentistry.ubc.ca

FOLLOW US ON TWITTER

Follow Alumni & Community Affairs @dentalum_at_ubc
www.twitter.com/dentalum_at_ubc

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Find UBC Dentistry alumni relations on Facebook.

In Memoriam



Tamara Nicole Edinger
BDS 2014
(posthumous)

Tamara Nicole Edinger was born on May 3, 1987, in Dawson Creek, BC, to proud parents Randy and Shannon. Tamara was their second daughter and a little sister for Alysha. Four years later, Tamara became a big sister to her brother Rylan. When Tamara was five months old, she moved to Tumbler Ridge, BC, and lived there for eight years before moving back to Dawson Creek.

In 2009, she graduated from Vancouver Island University with her dental assistant certification. She worked in her profession for a year in Fort St. John, BC, but decided she would like to further her education. She continued on her career path and was about to start her last year in the Dental Hygiene Degree Program at the University of British Columbia. Part of her studies included working with the less fortunate on Vancouver’s east side. While many people would shy away from the clients, Tamara enjoyed listening to their stories. After graduation Tamara wanted to work in Australia for a couple of years, and she was interested in Dentists Without Borders. Her dream was to work with children.

Tamara passed away suddenly on August 22, 2013, at the age of 26. She leaves to mourn her Mom and Dad, Alysha (Darcy) and Carson Keithley, Rylan (Ashley Munro) Edinger, Zoe, Grandma Field, Grandpa Field, Nama Edinger, Papa and Grandma Ruth Edinger, aunts, uncles, cousins and her many friends (her “besties”). She was predeceased by her Nana and Great-granddad Terry, Great-grandma and Grandpa Field, Great-grandma Pearl and Great-grandpa Lloyd, Bubba, Gedo and Auntie Val.

The Tamara Edinger Dental Hygiene Memorial Award has been established by her fellow students at the UBC Faculty of Dentistry to honour her memory as a student leader. If you would like to make a gift in memory of Tamara, please visit www.memorial.supporting.ubc.ca/tamara-edinger

Almost Alumni



Chris Dare
DMD 2015

Chris raised the UBC Dentistry banner on the summit of the Carstensz Pyramid in Papua province, Indonesia, on July 26, 2013. Read more about his achievement on page 4 in this issue of Impressions.



Jeremy Huynh
BDS 2015

The Institute of Aboriginal Health Summer Science Program provides an opportunity for high-school students of Aboriginal descent to gain exposure to careers in health programs across UBC campus. This year the students visited the Faculty of Dentistry and met eight dental hygiene students who led them through various interactive and hands-on activities in the clinic. Activities included using a dental mirror to find a hidden word inside of one of the practice phantom heads, creating patterns out of metal objects and having those objects exposed on radiographs, and taking tours of the Nobel Biocare Oral Health Centre as well as the John B. Macdonald Building. Students were also provided information on the admissions process and the general requirements for applying to the Doctor of Dental Medicine program or the Dental Hygiene Degree Program. Overall, the two camps—one for grade eight to nine students and the other for grade 10 to 12 students—were very successful: the students appeared to be engaged in the activities and excited about the prospect of being a dental professional.



Zack Zeiler
DMD 2015

Zack attended the Breakfast of Champions event hosted by UBC president, Prof. Stephen Toope. Zack is a UBC Thunderbird varsity swimmer. Read more about his achievement on page 4 in this issue of *Impressions*.



Annual Alumni & Friends Golf Tournament

The rainy weather held out until the last hour, when the tournament at Morgan Creek Golf Course was called off, giving the golfers ample time to relax before the dinner. Student golfers dressed up for the traditional costume contest, with the Super Mario and Mario Kart characters winning the Mahony & Sons gift certificates. And on the golf course: congratulations to Dr. Todd Moore MSc 2011, Dr. Ken Chow, Mike O'Brien DMD 2010 and Cam MacKenzie, who won the overall tournament, and to Richard Wilczek DMD 1981, David Baird DMD 1980, Lance Yates and Dr. Shafiq Kara, who won the low net trophy. The on-course activities—including the Scotiabank Canucks contest, Advil massage tent, Aurum Ceramic water balloon contest, My Practice Matters (a division of Nadean Burkett & Associates) Canucks contest, Frontier Institute team photo, and Sinclair Dental long drive contest—were all well received. Thank you to all the volunteers, alumni partners and prize donors.



Taste of Vancouver Island, Victoria

UBC Dentistry alumni from Vancouver Island and the Victoria & District Dental Society joined Dr. Charles Shuler, dean of UBC Dentistry, for local food and wine on October 19, 2013. The Taste of Vancouver Island reception was held at the Inn at Laurel Point in Victoria, BC.



Alumni Wine Reception at TODS Meeting, Kelowna

Thompson Okanagan Dental Society alumni joined Dr. Charles Shuler, dean of UBC Dentistry, at the annual alumni wine reception following the TODS meeting in Kelowna, BC, this past October.

Recent Events



Alumni vs. Students Soccer Game

Alumni and friends dominated on the field this year. The team included: Dr. Cyrus Aliakbari, Aidin Ghotbi DMD 2008, Ryan Lauwers DMD 2004, Sherwin Mohammadnabi DMD 2000, Reza Nouri DMD 1994, Bob Paterson DMD 1981, Kamshad Pouraslani DMD 2004, Tony Reichert DMD 2009, Nick Seddon DMD 2006, Majid Sherkat DMD 1992, Ehsan Taheri DMD 2011 and Ken Wu DMD 1979.

Events for Students and Alumni



6TH ANNUAL BATTLE OF THE BANDS: FACULTY/ALUMNI VS. STUDENTS

Friday, January 17, 2014 · Doors open at 7 pm (first band at 8 pm)

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

Tickets on sale soon!



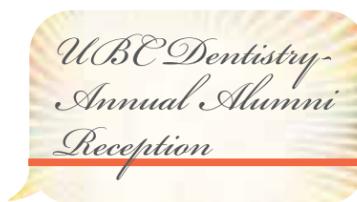
YOUNG ALUMNI & STUDENT RECEPTION AT THE PACIFIC DENTAL CONFERENCE 2014

Thursday, March 6, 2014 · 6 - 8 pm

All recent graduates and students in third and fourth years are invited. Complimentary beverage and appetizers provided.

Mahony & Sons Burrard Landing, 1055 Canada Place, Unit #36

RSVP to ahem@dentistry.ubc.ca



ANNUAL ALUMNI RECEPTION PACIFIC DENTAL CONFERENCE 2014

Friday, March 7, 2014 · 6 - 8 pm

West Ballroom Foyer, Vancouver Convention and Exhibition Centre

Commemorative anniversary class photos to be taken of: 1969, 1974, 1979, 1984, 1989, 1994, 1995, 1999, 2004, 2009 and 2013.

The alumni getaway contest prize is a trip for two (alumnus and guest) to Las Vegas—two nights at a five-star hotel and return airfare from Vancouver—compliments of My Practice Matters, a division of Nadean Burkett & Associates.

No RSVP is necessary, but if you would like to organize a class reunion to follow the reception, contact alumni@dentistry.ubc.ca

More Events for Alumni



ALUMNI RECEPTION AT THE ONTARIO DENTAL CONFERENCE

Friday, May 9, 2014 · 6 pm

Real Sports Bar and Grill, Toronto, Ontario

For more information, email alumni@dentistry.ubc.ca

MENTORSHIP PROGRAM

The UBC Faculty of Dentistry & BC Dental Association Dental Mentorship Program, sponsored by CDSPI, is recruiting dentists to be mentors. If you are interested in being paired up with a student, contact Alex Hemming at ahem@dentistry.ubc.ca

CORRECTION NOTE

In the spring 2013 issue of *Impressions* on page 39, in the list of deans of UBC Faculty of Dentistry, Dr. Doug Yeo should have been named as the acting dean from 1977 to 1978.

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, contact Jenn Parsons, manager of Alumni & Community Affairs, at 604-822-6751 or alumni@dentistry.ubc.ca

Stay connected to more than 2,500 alumni. Share your news, thoughts or comments. Visit www.dentistry.ubc.ca/alumni

COMMUNITY PARTNERS



ALUMNI PARTNERS



REGIONAL ALUMNI PARTNER



Thank you to all our volunteers. **50TH ANNIVERSARY ADVISORY COMMITTEE** · Brenda Currie Dip DH 1976 BDS_c 2004 MSc 2007 · Ash Varma DMD 1983 **50TH ANNIVERSARY: THE BASH! AT THE COMMODORE BALLROOM COMMITTEE** · Andre Arsenault · Dr. Marcia Boyd · Susan Chow DMD 1972 · Prof. Bonnie Craig · Brenda Currie Dip DH 1976 BDS_c 2004 MSc 2007 · Dr. Andrea Esteves MSc 1994 · Phil Hou DMD 2014 · Jeremy Huynh BDS_c 2015 · Prof. Zul Kanji MSc 2011 · Mrs. Sophia Leung CM · Bruce McCaughey · Robyn McCorquodale · Bill McDonald DMD 1977 · Jordan Sanders DMD 2015 · Nora Tong BDS_c 2014 **ALUMNI VS. STUDENTS SOCCER GAME** · Dr. Cyrus Aliakbari · Carlee Beuk DMD 2016 · Amanda Campbell DMD 2016 · James Chen DMD 2016 · Matt Chin DMD 2016 · Payam Eslami DMD 2013 · Aidin Ghotbi DMD 2008 · Japjot Gill DMD 2014 · Sangwoo Ham DMD 2014 · Phil Hou DMD 2014 · Roger Kiang DMD 2016 · Ryan Lauwers DMD 2004 · Chris Lee DMD 2015 · Christopher Low DMD 2014 · Graham Macdonald DMD 2014 · Jamie Marshall DMD 2015 · Scott Matheson DMD 2016 · Sherwin Mohammadnabi DMD 1999 · Reza Nouri DMD 1994 · Robert Paterson DMD 1981 · Kamshad Pouraslani DMD 2004 · Tony Reichert DMD 2009 · Fran Rhee DMD 2014 · Anastasios Rinquinha DMD 2016 · Shamsheer Sandlas DMD 2015 · Nick Seddon DMD 2006 · Thomas Sheasby DMD 2015 · Majid Sherkat DMD 1992 · Tanmeet Singh DMD 2014 · Ehsan Taheri DMD 2011 · Sarang Toosi DMD 2015 · Soroush Torabian DMD 2015 · Kevin Urness DMD 2016 · Whitney Weisshaar DMD 2013 · Ken Wu DMD 1979 · Zach Zeiler DMD 2015 **DENTAL MENTORSHIP PROGRAM** · Dr. Pamela Barias · San Bhattha DMD 2001 · Janis Boyd DMD 1987 · Dr. Tom Cheevers · Dr. Rod Clarence · Dr. Zahra Davami · Jeffry Davis DMD 1980 · Dr. Inderjit Dulay · Dr. Ashley Dykun Yakiwchuk · Ray Fong DMD 1989 · Judy Gough DMD 1995 · Silke Gumpfinger DMD 2003 · Dr. Kathy Horwood · Dr. Chris Kan · Andrew Kay DMD 1981 · Alisa Lange DMD 1994 · Kevin Lauwers DMD 2005 · Dr. Michael Layton · Angelique Leung DMD 1988 · Dr. Fred Li · Dr. Kevin Li · Greg Nelson DMD 1983 MSc 1987 · Dr. Frank Pan · Bob Paterson DMD 1981 · Mike Racich DMD 1982 · Nick Seddon DMD 2006 · Dr. Andrew Shearon · Dr. Bob Sims · Erwin Soon DMD 1981 · Brian Standerwick DMD 1988 · Janet Thom DMD 1990 · David Waterman DMD 1979 **INSTITUTE OF ABORIGINAL HEALTH SUMMER SCIENCE CAMP** · Jeremy Huynh BDS_c 2015 · Elizabeth Koh BDS_c 2015 · Eric Mok BDS_c 2013 · Kim Nguyen BDS_c 2014 · Miriam Smith BDS_c 2015 · Si-si Xu BDS_c 2015 · Jean Zhai BDS_c 2015 **OPEN WIDE COMMUNITY CLINIC DAY** · Meeta Bhatt · Mark Casafrancisco DMD 2005 · Jimmy Chan DMD 1996 · Dr. Ella Choi MSc/Dip Pedo 2014 · Anita Gartner-Makihara DMD 1993 · Dr. Ronald Gaudet · Christina Lo DMD 1993 · Wendy Rondeau DMD 1979 · Stephanie Song DMD 2003 · Tim Yan DMD 1989 **ORIENTATION VOLUNTEER** · Greg Marasa DMD 2010 **SUMMER STUDENT PRACTITIONER PROGRAM** · Dr. Hassan Adam · Dr. Roger Armstrong · Dr. Elwood Astelford · Cory Brown DMD 2009 · Chris Bryant DMD 1991 · Blaine Cairns DMD 1989 · Dr. Awdesh Chandra · Andrew Cheng DMD 1989 · David Ciriani DMD 1987 · Dr. Luke Cockerham · Karl Denk DMD 1983 · Dr. Chris Dennis · Dr. Harry Dhanju · Kevin Doyle DMD 1980 · Gerald Dyck DMD 1987 · Les Ennis DMD 1987 · Larry Flagg Dip DH 1978 DMD 1988 · Dr. Terry Grover · Dr. Steven Johnson · Zoltan Keresztes DMD 1982 · Dr. Diane Kjørven · Dr. Robert Loh · Roderick Low DMD 1985 · Dr. Sunil Malhotra · Ian McMillan DMD 1996 · Lydia Naccarato DMD 1985 · Dr. Alastair Nicoll · Dwayne Ogasawara DMD 1989 · Mirko Pellizzari DMD 1997 · Frank Pyde DMD 1981 · William Rosebush DMD 1983 · Stacie Ross DMD 1996 · Jaspal Sarao DMD 2010 · Dr. Stephen Small · Stanley Soon DMD 1978 · Dr. David Speirs · Dr. Sandra Tai · Dr. Jim Tennant · Dr. Steven Tsoung · Ash Varma DMD 1983 · Gary Wessels DMD 2005 · Richard Wilczek DMD 1981 · Dr. Robert Wolanski **UBC DENTISTRY BOARD OF COUNSELLORS** · Dr. David Baird DMD 1980 · Richard Busse DMD 1986 · Dr. Kenneth Chow · Susan Chow DMD 1972 · Brenda Currie

THANK YOU

Dip DH 1976 BDS_c 2004 MSc 2007 · Carrie De Palma BDS_c 2010 · Mr. Craig Dewar · Mark Kwon DMD 1997 · Mrs. Sophia Leung CM · Dr. Jin Li-Jian · Mr. Tuomas Lokki · Mr. Hyo Maier · Mr. David Poole · Mr. Kishore Pranjivan · Nick Seddon DMD 2006 · Dr. Chuck Slonecker · Dr. Peter Stevenson-Moore · Margit Strobl BDS_c 2008 · Mr. Ron Suh · Dr. Tim Tam · Ash Varma DMD 1983 · Dr. Bill Wong · Benjamin Yeung DMD 1983 · Ron Zokol DMD 1974 **VOLUNTEER CLINIC-ABBOTSFORD FOOD BANK** · Chris Barlow DMD 1989 · Don Beeson DMD 2016 · Shane Bot DMD 2014 · Bonita Buddee · Irene Cho DMD 2014 · Lala Khankishi-Zade · David Larsen DMD 1987 · Irene Ng DMD 2016 · Fran Rhee DMD 2014 · Varun Saran DMD 2017 · Nancy Schmidt DMD 2015 **VOLUNTEER CLINIC-ANAHAM** · Dilraj Bal DMD 2014 · Dan Berant DMD 2013 · Carlee Beuk DMD 2016 · Bob Blacker · Dr. Bill Brymer · Nadine Bunting · Shirley-Pat Chamberlain · Eugene Chien BDS_c 2011 · Lisa Cho DMD 2014 · Bruce Chou DMD 2015 · Dr. Christine Constabel · Dr. Iqbal Dhaliwal · Navreet Dhaliwal DMD 2015 · David Hemerling DMD 1993 · Anderson Hsu DMD 2014 · Priya Kandola DMD 2014 · Aleem Kara DMD 2014 · Christopher Low DMD 2014 · Ann Lu DMD 2014 · Graham Macdonald DMD 2014 · Katja McBee DMD 2016 · Julianne Proniuk DMD 2015 · Jillian Tan BDS_c 2014 · Nora Tong BDS_c 2014 · Hanah Tsao DMD 2011 · Evan Wiens DMD 2012 **VOLUNTEER CLINIC-CHEMAINUS** · Bob Blacker · Dr. Bill Brymer · Katherine Chatten · Natalie Chaudhary DMD 2014 · Joanne Dawson · Lindsay Flumerfelt DMD 2014 · Dustin George DMD 2011 · David Hemerling DMD 1993 · Phil Hou DMD 2014 · Angel Hu BDS_c 2015 · Jeremy Huynh BDS_c 2015 · Elizabeth Johnson-Lee DMD 1992 · Mike Mah DMD 2015 · Jinny Nam DMD 2014 · Doug Nielsen DMD 1972 · Susan Nielsen · Shamsheer Sandlas DMD 2015 · Michael Stearns DMD 2014 · Garry Sutton DMD 1972 · Suzanne Sutton · Laura Turner DMD 2014 **VOLUNTEER CLINIC-VANCOUVER NATIVE HEALTH SOCIETY** · Dr. Houman Abtin MSc/Dip Endo 2011 · Tony Bae DMD 2013 · Don Beeson DMD 2016 · Liora Berant DMD 2016 · Vik Boparai DMD 2014 · Jay Chan DMD 2014 · Jordan Cheng DMD 2017 · Lisa Cho DMD 2014 · Bruce Chou DMD 2015 · Anne Fang DMD 2017 · David Hemerling DMD 1993 · Milena Hobbs DMD 2014 · Phil Hou DMD 2014 · Kyla Leung DMD 2015 · Mike Mah DMD 2015 · Karen Nguyen DMD 2016 · Julianne Proniuk DMD 2015 · Kevin Shen DMD 2015 · Tanmeet Singh DMD 2014 · Dr. Lisa Tran · Kevin Urness DMD 2016 · Patrick Wu DMD 2009 **VOLUNTEER CLINICS-GERIATRIC DENTISTRY PROGRAM** · Bradley Asay DMD 2015 · Vikramjit Boparai DMD 2014 · Irene Hyunsoo Cho DMD 2014 · Erin Chung DMD 2016 · Ashley Gill DMD 2016 · Rabia Gill DMD 2015 · Annum Khosla DMD 2014 · Rosa Minhee Kim DMD 2015 · Karen Nguyen DMD 2016 · Afarin Pahlavan DMD 2016 · Fran Taekhyun Rhee DMD 2014 · Kevin Sung Yuan Shen DMD 2015 **VOLUNTEER CLINICS-RICHMOND GENERAL HOSPITAL** · Michelle Bedard · Belinda Boyd · Kathy Chatten · Joanne Dawson · David Hemerling DMD 1993 · Alex Hupka · Elizabeth Johnson-Lee DMD 1992 · Doug Nielsen DMD 1972 · Susan Nielsen **VOLUNTEER CLINICS-STUDENT LEADERS** · Dilraj Bal DMD 2014 · Jay Chan DMD 2014 · David Chen DMD 2014 · Lauren Currie DMD 2014 · Airra Custodio DMD 2014 · Jeremy Huynh BDS_c 2015 · Jamie Marshall DMD 2015 · Fiona Roth DMD 2016 · Nancy Schmidt DMD 2015 · Jocelyn Shih DMD 2015 · Michael Tsai DMD 2015 *Those listed with DMD or BDS_c years from 2014 through 2017 following their name are candidates for graduation in the specified year. UBC Dentistry appreciates all who volunteered their time. We apologize if your name or organization was missed.*

CONTINUING DENTAL EDUCATION 2014

This calendar is subject to change.
For updates to spring and fall 2014 course offerings, visit www.dentistry.ubc.ca/cde

JANUARY 2014
25 (SATURDAY)
Digital Dentistry
Dr. Jonathan Ng

FEBRUARY 2014
3 - 7 (MONDAY - FRIDAY)
Adventure & Learn: Hawaii 2014
Dr. Nasser Barghi, Dr. Ricardo Carvalho,
Dr. Adriana Manso, Dr. Charles Shuler
13 - 15 (THURSDAY - SATURDAY)
Whistler Ski & Learn
Dr. Daniel Haas, Dr. Glenn van As
22 - 23 (SATURDAY - SUNDAY)
Cone Beam CT Program for Dentists
Dr. Robert Langlais, Dr. James Mah

MARCH 2014
15 - 29 (SATURDAY - SATURDAY)
Adventure & Learn: Thailand
Dr. Jeffrey Coil, Dr. Charles Shuler, Dr. Chris Wyatt

APRIL 2014
12 (SATURDAY)
Periodontics topic TBA
Dr. Jim Grisdale
25 - 27 (FRIDAY - SUNDAY)
Inhalation and Oral Sedation in Dentistry
Dr. David Donaldson, Dr. Mark Donaldson,
Dr. Fred Quarnstrom

MAY 2014
3 (SATURDAY)
Dental Digital Photography
Dr. Jason Goodchild
9 - 10 (FRIDAY - SATURDAY)
Sleep apnea topic TBA
Dr. Fernanda Almeida, Dr. Alan Lowe
16 (FRIDAY)
Dental Pharmacology
Dr. Mark Donaldson
Course in partnership with the University
of Washington
Location: Bellingham, WA
TBA Clinical Skills Enrichment Course (CSEC) for
Foreign-Trained Dentists
May dates and speakers will be posted on
www.dentistry.ubc.ca/cde

MAY - JUNE 2014
Safe and Effective Moderate IV Sedation for Dentistry
Dates for Block 1, Block 2, Clinical Choice A and Clinical
Choice B will be posted on www.dentistry.ubc.ca/cde

SEPTEMBER 2014
20 (SATURDAY)
50th Anniversary-UBC Dentistry
CDE Symposium

**FOR REGISTERED DENTAL
HYGIENISTS AND CERTIFIED
DENTAL ASSISTANTS**
FEBRUARY 2014
22 (SATURDAY)
Cone Beam CT Program for Dental Assistants
and Hygienists
Dr. Robert Langlais, Dr. James Mah
MAY - JUNE 2014
Orthodontic Module for Certified Dental
Assistants and Registered Dental Hygienists
Spring dates for Lecture Sessions, Clinical
Session A and Clinical Session B will be posted
on www.dentistry.ubc.ca/cde

**2014 SPRING THURSDAY
EVENING LECTURE SERIES
FOR DENTAL HYGIENISTS**
Spring dates, topics and speakers will be posted on
www.dentistry.ubc.ca/cde
Location: South Surrey, BC

**CLINICAL PARTICIPATION
COURSES 2014 - 2015**
September 2014 - June 2015
Basic Orthodontics for the General Practitioner
Dr. Paul Witt
September 2014 - August 2015
Advanced Orthodontics for the General Practitioner
Dr. Clement Lear
September 2014 - July 2015
UBC-Radiant Advanced Orthodontics for the
General Practitioner
Dr. Paul Witt
September 2014 - May 2015
Advanced Prosthodontics for the General Practitioner
Dr. Chris Wyatt
For dates, times and locations of Clinical Participation
Courses and Study Clubs, visit www.dentistry.ubc.ca/cde



FOR FULL DETAILS OF CDE COURSES AND TO REGISTER VISIT DENTISTRY.UBC.CA/CDE ADA CER/P Continuing Education Recognition Program

MARK YOUR CALENDARS!

CONTINUING DENTAL EDUCATION

Adventure & Learn: Hawaii 2014
February 3 - 7, 2014 (Monday - Friday)

Whistler Ski Seminar
February 13 - 15, 2014 (Thursday - Saturday)

Adventure & Learn: Thailand
March 15 - 29, 2014 (Saturday - Saturday)

50th Anniversary-UBC Dentistry CDE Symposium
September 20, 2014 (Saturday)

For more details, visit www.dentistry.ubc.ca/cde

EVENTS FOR STUDENTS AND ALUMNI

6th Annual Battle of the Bands: Faculty/Alumni vs. Students
January 17, 2014 (Friday)

Young Alumni & Student Reception Pacific Dental Conference 2014
March 6, 2014 (Thursday)

Annual Alumni Reception Pacific Dental Conference 2014
March 7, 2014 (Friday)

Alumni Reception Ontario Dental Conference
May 9, 2014 (Friday)

More information about these events can be found on pages 36 - 37 in this issue of *Impressions* or at www.dentistry.ubc.ca/alumni

50TH ANNIVERSARY OF THE FACULTY OF DENTISTRY

Fifty Fabulous Years: The Bash! At the Commodore Ballroom
September 20, 2014 (Saturday)

For all the 2014 celebration events and dates, see pages 20 - 21 in this issue of *Impressions* or visit www.dentistry.ubc.ca/50years



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IMPRESSIONS

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