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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 under-served 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 members have continued to receive recognition for their work.

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 Bahak Chehroudi is a perfect example of basic research applied to patients. Another article points to our volunteer initiatives, which have now extended beyond local clinics and outreach to the Pembina First Nation in southwestern BC. In July 2013, dental and dental hygiene students, alumni and faculty members participated in a clinic serving the Tsalteshi people 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

Alfaro writes that “micro-CT for the evaluation of internal fit in crown design 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 technology and should give practitioners the confidence to incorporate digital imaging and digital manufacturing into their daily clinical practice.”

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 strong support of the transition to digital dental technology and should give practitioners the confidence to incorporate digital imaging and digital manufacturing into their daily clinical practice.”

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

Three-dimensional images generated by micro-CT showing the space between the crown and the prepared tooth. Colors represent varying depths, with red indicating the areas of poorest fit and green indicating the best fit.
05 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 (2), basketball (8), curling (1), cycling (1), fencing (1), field hockey (3), figure skating (1), football (6), golf (6), gymnastics (2), ice hockey (65), judo (2), rowing (6), rugby (7), sailing (1), skiing (3), soccer (6), squash (6), swimming (9), tennis (2), track and field (7), volleyball (1) and wrestling (1).

Athletics: Two Dental Students Achieve Peak Recognition

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.

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.

“My mom and I were used to hearing [Chris] say ‘No Excuses, No Regrets: The Desert and Mountains That Changed My Life,’” says Dare. “With the trek out, it was 15 days 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 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.

Were you a varsity athlete while a student at UBC Dentistry? If so, contribute to our 50th anniversary celebration by sharing your stories and photos. Upload them to www.dentistry.ubc.ca/50years

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

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<td>Clinical Research Award, American Academy of Dental Sleep Medicine</td>
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<td>Nadine Bunting, Clinical Instructor</td>
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<td>Hind Ratan Award, Non-Resident Indian Welfare Society, New Delhi, India</td>
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<td>Dr. Ken Stones, Clinical Part-Time Faculty</td>
<td>Distinguished Service Award, British Columbia Dental Association</td>
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<td>Dr. Christopher Zed, Associate Dean, Strategic and External Affairs; Head, Postgraduate and Hospital Programs</td>
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<td>Dr. Lowey Zhang, Professor</td>
<td>William J. Gies Award, American and International Associations for Dental Research</td>
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<tr>
<td>Reena Taranath, PhD/Dip Perio candidate</td>
<td>Awarded to attend the International Association of Dental Research General Session, March 2013, Seattle, Washington, Canadian Institutes of Health Research – Institute Community Support</td>
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<td>Esther Chen, MSc and DMD 2014 candidate</td>
<td>William J. Gies Award, American and International Associations for Dental Research</td>
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<td>Stacey Konvinski, PhD/Dip Ortho 2014 candidate</td>
<td>Graduate Student Research Award, American Academy of Dental Sleep Medicine</td>
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<tr>
<td>Heather Ragger, BDS (Dental Hygiene) 2006, MSc 2009</td>
<td>Winners, CDSN Research Award, Canadian Dental Hygienists Association, in participation with Oral Biol B</td>
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<td>Rae McFarlane, Part-Time Faculty</td>
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<td>Susanne Sandal, Part-Time Faculty</td>
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<td>Zul Kanji, Clinical Assistant Professor</td>
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<td>Dr. clamp Khan, BDSc 2013</td>
<td>Dr. Riwanda Shah receiving the Mahatma Gandhi Samman in the House of Lords, London, UK, on October 4, 2013</td>
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## 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

### Practitioners


### Locations

- Northwest Territories: Yellowknife.

### For more information, visit [www.dentistry.ubc.ca/ssp](http://www.dentistry.ubc.ca/ssp)

### Stay Connected to UBC Dentistry

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- Follow news on Twitter: [@ubcdentistry](http://twitter.com/ubcdentistry)
- Read or download past issues of Impressions at [www.dentistry.ubc.ca/impressions](http://www.dentistry.ubc.ca/impressions)
A Landmark Event: NDSE Success for Graduate Clinical Specialty Students

Every one of our third-year clinical specialty graduate students at UBC Dentistry—14 in five clinical specialties—successfully completed their respective National Dental Specialty Examination (NDSE) administered by the Royal College of Dentists of Canada.

The NDSE is administered in two parts, at two separate times: this year the written exam took place during the first week of March and the oral component in mid-June, both in Toronto, Ontario.

Clinical specialty graduate students in their final year at UBC—in this case, those undertaking a combined master of science and specialty diploma—must complete these exams as part of the requirement for licensure as a specialist.

This was the first time that students from UBC’s programs in pediatric dentistry, prosthodontics and orthodontics—programs that began in 2010—have taken the national examinations alongside students from the endodontics program (launched in 2008) and the longer-established periodontics program (launched in 1979).

On behalf of the Faculty, Dr. Edward Putnins, associate dean, Research, Graduate and Postgraduate Studies, says: “It is my absolute pleasure to congratulate all of you on your successful completion of your Royal College exams. Successful completion of this stepping stone represents a major accomplishment, and all of you should feel very proud of this success.” He also extends congratulations to the full- and part-time instructors who have worked with the graduate specialty students to help them accomplish this goal.

“Collectively, very well done!” Putnins says, appreciative of everyone’s hard work and the strong, positive representation of UBC in the national exam results.

For more information about UBC Dentistry’s clinical specialty graduate programs, visit www.dentistry.ubc.ca/education/grad

Graduates and Residents of 2013

May 28, 2013, marked the 45th class of graduates from UBC Dentistry. This year, 132 people graduated from undergraduate and graduate programs. June 2 marked the ceremony for 10 residents who completed a postgraduate residency program. Here are the numbers:

UBC Dentistry Research Day 2014

UBC ALUMNI: ADVANCING CRANIOFACIAL HEALTH

Tuesday, January 28, 2014

UBC Student Union Building Ballroom

Research Day 2014 will be the first major celebratory event recognizing UBC Dentistry’s first 50 years. The Faculty of Dentistry has proudly developed and supported undergraduate and graduate research training, in keeping with the University of British Columbia’s research-intensive focus.

In recognition of our research success, we have invited seven diverse alumni to present at Research Day. This year’s event will celebrate the work of seven outstanding alumni, all of whom are advancing craniofacial health research.

Alumni Presenters

- Heather Stumbo-Rogers, BSc, PhD 2007, University of Pittsburgh
- Denise Laronde, DipDH, BA 1985, MSc 2005, PhD, The University of British Columbia
- Christopher Peck, DMD, MSc, PhD 2000, The University of Sydney
- Bjorn Steffensen, DDS, MS, PhD 1997, Tufts University
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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, which claimed more than 230,000 lives.

“The tsunami claimed approximately 230,000 lives and literally wiped some areas off the map,” recalls Sweet, a forensic dentist and one of 100 responders from 26 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.”

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 during a course through BOLD at UBC.

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

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 dental 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 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 all around the world are truly remarkable,” says Sweet. All we do is give them the confidence to do it.”

UBC Dentistry’s 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.

“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 during a course through BOLD at UBC.

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.

Trainers 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 dental skills differently, under extreme circumstances, says Sweet.

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

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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 Dentistry’s 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.
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 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
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 nanoscale. He has been investigating how 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 CBHR 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.

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.”

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.

B.Parameters: Topography → Morphology → Physiology

Topography

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 modulates cell signalling, which leads to changes in gene expression and function.”

In modified microenvironments, they have demonstrated that cell–cell interactions could also be modified, thereby creating a feedback loop for ongoing cell signalling, gene expression and so on (see diagram).

“Differences in 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.”

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 eater,” 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 “vagophagia.” UBC Dentistry postdoctoral fellow Katrin Barth and prosthetics 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.
Streamlining the Delivery of Complex Care: A New Graduate Specialty Clinic

Monarch Supports a Dynamic Learning Environment for the Clinical Specialties

Dr. John Hwang 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.

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, taken 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.

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 conferencing 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 achieved 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 while I was treating the patient’s periodontic and surgical needs, 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 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. Funding 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/gradmag.
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 anesthesia 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-ai 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.
WINTER – SPRING SIGNATURE EVENTS

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 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

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

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

14th Annual Toothfairy Gala & BC Dental Association Awards
Proceeds will go to the UBC Dentistry Community Outreach Program
March 8 (Saturday) · 6:00 pm - 11:00 pm
Vancouver Convention and Exhibit Centre, West Building, Ballrooms C & D
Register at www.pdconf.com/aes2014

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

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

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 Building Foyer

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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)

The BASH!
At the Commodore Ballroom
FEATURING THE FACULTY / ALUMNI BAND + SPECIAL GUESTS
SATURDAY, SEPTEMBER 20
DOORS OPEN AT 7PM
Commodore Ballroom
868 Granville Street, Vancouver BC
COCKTAIL ATTIRE

FOR TICKETS WWW.DENTISTRY.UBC.CA/50YEARS

THANK YOU TO OUR FIVE EXCLUSIVE SPONSORS OF UBC DENTISTRY’S 50TH ANNIVERSARY
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For event times, visit www.dentistry.ubc.ca/50years, where you will also find ongoing information and announcements about all the celebrations.
UBC DENTISTRY IS TURNING 50!

Your success in the oral health profession is our celebration. Have a desire to pay that success forward? Help UBC dental education grow with the times. Make a gift to support the next generation... 

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

ONLINE TOOLS
MAKE GIVING SMOOTH

Ready to give your gift to the UBC Dentistry 50th Anniversary Fund? Donations to the fund can be made effortlessly online. A few clicks do it all, and a tax receipt will be emailed to you immediately. Smooth, quick, easy and secure.

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

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—who 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—new 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 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/multipatient 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—supervisor, which further enriches 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 Shauler, 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.” Shauler 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.”
DENTISTRY STUDENTS IN THE CHILCOTIN
Gratitude Goes Both Ways

BY HEATHER CONN

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’etinqox (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.
A Caring Vision
Dental Outreach: An inspiration using dentistry, says Brymer.

Several years earlier, Blacker, a district governor of almost 100 Rotary Clubs in BC, and Chamberlin, a newspaper officer at the Thompson River 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 Penetekon First Nation community on an island near Chemainus.

In his people’s traditions, from drinking soapberry juice to sharing dietary secrets, dinners of hickory and wild game. Along the Chilcotin River, the variety of cultures we have in our society, 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’inn provided food, accommodations and entertainment and ensured that their guests felt comfortable throughout a variety of hosted activities.

One lady told a girl going through her crown during the UBC clinic. “I really wanted to have my teeth fixed, says Chief Alphonse. “All of their presenters, from young children to people in their 90s. Entire families arrived. Knowing they might agree to receive a filling, concerned that the UBC service, says Grant Alphonse, since such benefits always involve giving back in some form. In this case, the Tsilhqot’inn provided food, accommodations and entertainment and ensured that their guests felt comfortable throughout a variety of hosted activities.

In a rec industry, “These guys [dentistry students] were just learning, ” she says. “These cubs are pretty good.”

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 rotten teeth.

“[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.”

Break’s favourite activity was sitting around a table with Tsilhqot’inn 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’inn people.

“We 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, Frank Setah was in pain, with a mouth full of rotten teeth.

“These guys [dentistry students] were just learning, “she says. “These cubs are pretty good.”

Chief Joe Alphonse (2nd R) is flanked by Dr. Christine Constabel and Bob Blacker, while David Hemerling DMD 1999 and second-year dentistry student Carole Beuk took a break.

FALL 2013
UBC DENTISTRY IMPRESSIONS
26
27
UBC DENTISTRY IMPRESSIONS
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 into the CAD/CAM system or make ceramic restorations on-site. The centre also supports the process of milling 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. To learn more, contact Jane Merling, director of Development & Alumni Affairs, at 604-822-5886 or merling@dentistry.ubc.ca

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.

To express your thankfulness in any amount, there is no minimum and a tax receipt will be issued. Enter 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 the expression of your thanks. Gift amounts will be kept confidential.

Your gift of gratitude to UBC Dentistry, British Columbia’s very own dental school, helps advance oral health through outstanding education, research and community service.
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UBC Dentistry values the generous support of our many supporters. These donors have given more than $10,000 to the Faculty during their lifetime. Thank you for your outstanding support.

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  Dr. Joseph T. onzetich**
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ASSOCIATIONS
• PDG Pediatric Dental Group Inc.
  PDG Pediatric Dental Group Inc.
The dental hygiene program at UBC Dentistry has graduated three generations of women in one family: Katie Russell BDSc 2013 (daughter), Janice Cox Dip DH 1978 (mother) and Jo Gardner BDSc 1998 (grandmother). By passed in 2008, and as a legacy of her long career 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 plaque and degree, Janice Cox and Katie Russell.

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 docihp@hotmail.ca. The dental mission project.com). The team included UBC Dentistry alumni Les Ennis, Peter Youn Foundation, PDG Pediatric Dental Group Inc., Pacific Dental Conference Trust, Novocol Pharmaceutical of Canada Inc., Colgate-Palmolive Canada Inc., Fine Arts Dental Laboratories, ProTec Orthodontic Laboratories (BC) Inc., BC Dental Outreach team of 14 like-minded community volunteers worked out of a community centre with portable equipment supplied through The Dental Mission Project (www.thedentalmisssionproject.com). The team included UBC Dentistry alumni Les Ennis (daughter), Janice Cox Dip DH 1978 (mother) and Jo Gardner BDSc 1998 (grandmother). By passed in 2008, and as a legacy of her long career 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 plaque and degree, Janice Cox and Katie Russell.

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REUNION DMD 1999
Brian Sully Daniels and Ernest Lam are planning the DMD 1999 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 sbcd2cinc@gmail.com

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 Casasfranco DMD 2005, Jimmy Chan DMD 1996, Anita Gartner-Makihara DMD 1993, Ronald Gaudet DMD 1996, Christina Lo DMD 1993, Wendy Roorda DMD 1979, Stephanie Song DMD 2003 and Mertia Bhut, a volunteer from the community.

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

1990s

2000s

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.

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 Dentistry Canada and Derek.

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 cindy.ch@gmail.com

2010s

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

Doris Luk DMD 2012
Doris is pleased to announce the birth of her son Jordan. He was born February 27, 2013, and weighed seven pounds eight ounces.

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.

In Memoriam

Tamara Nicole Edinger BDS 1987 (pothumous)

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 @dentaltm_at_UBC
http://twitter.com/dentaltm_at_UBC

Friend Us on Facebook
Find UBC Dentistry alumni relations on Facebook.

Almost Alumni

Chris raises 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.

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 wood 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.
Recent Events

An annual Alumni & Friends Golf Tournament was held in October 2013. The rainy weather held off until the last hour, allowing the golfers to enjoy the course. The tournament was hosted by a student, with proceeds going to support scholarships and bursaries for students. The event included a dinner and live entertainment. The alumni and friends who attended the event enjoyed the beautiful setting of the golf course and the camaraderie of fellow alumni.

The Alumni Wine Reception at TODS Meeting, Kelowna was held on October 19, 2013. The reception was held at the Inn at Laurel Point in Victoria, BC. The event included a delicious wine and food selection, as well as an opportunity to network with fellow alumni.

Events for Students and Alumni

The 6th Annual Battle of the Bands: Faculty/Alumni vs. Students was held on Friday, January 17, 2014. The event was open to all students and included performances by student bands from the University of British Columbia. The event also included a live auction and a raffle for prizes.

An annual Alumni & Friends Golf Tournament was held in October 2013. The event included a dinner and live entertainment. The alumni and friends who attended the event enjoyed the beautiful setting of the golf course and the camaraderie of fellow alumni.

An Alumni Wine Reception at TODS Meeting, Kelowna was held on October 19, 2013. The reception was held at the Inn at Laurel Point in Victoria, BC. The event included a delicious wine and food selection, as well as an opportunity to network with fellow alumni.

Alumni vs. Students Soccer Game

Alumni and friends dominated the field this year. The team included Dr. Cyrus Aliakbari, Aidin Ghotbi DMD 2008, Ryan Lauwers DMD 2010 and Cam MacKenzie, who won the overall tournament, and to Richard Wilczak 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, Adivil massage tent, Aurum Ceramic water balloon contest, My Practice Matters—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.

More Events for Alumni

Annual Alumni Reception

An Annual Alumni Reception was held on Friday, March 7, 2014. The event included live entertainment and a raffle for prizes. All recent graduates and students in third and fourth years were invited. Complimentary beverages and appetizers were provided.

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.

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

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

Real Sports Bar and Grill, Toronto, Ontario
Friday, May 9, 2014 · 6 pm

For more information, email alumni@dentistry.ubc.ca
Thank you to all our volunteers.

Please be advised that the following is an advisory notice:

1. Dr. Priscilla Chan
2. Dr. Krista Carter
3. Dr. Lisa Chang
4. Dr. Michelle Cheung
5. Dr. Minny Chu
6. Dr. Lisa Chiang
7. Dr. Valeria Chaves
8. Dr. Sarah Chiu
9. Dr. Lillian Cho
10. Dr. Helen Chu
11. Dr. Karen Cheung
12. Dr. Emma Cheung
13. Dr. Kirsten Cheung
14. Dr. Chao-Chun Chen
15. Dr. Yu-Chun Chen
16. Dr. Alice Chen
17. Dr. Diana Chen
18. Dr. Jessica Chen
19. Dr. Eric Chen
20. Dr. Sarah Chen
21. Dr. Angela Chen
22. Dr. Nina Chan
23. Dr. Vivian Chan
24. Dr. Catherine Chau
25. Dr. Jennifer Chau
26. Dr. Cindy Chau
27. Dr. Catherine Cheung
28. Dr. Alice Cheung
29. Dr. May Cheung
30. Dr. Edna Chan
31. Dr. Caro Chan
32. Dr. Zilan Chen
33. Dr. Connie Cheung
34. Dr. Emily Cheung
35. Dr. Jennifer Chau
36. Dr. Wilson Chan
37. Dr. Vivian Chau
38. Dr. Cecilia Chan
39. Dr. Jessica Chau
40. Dr. Vivian Cheung
41. Dr. Stephanie Chau
42. Dr. Stella Chau
43. Dr. Vivian Chau
44. Dr. Vivian Chau
45. Dr. Vivian Chau
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79. Dr. Vivian Chau
80. Dr. Vivian Chau

Please note that these 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.
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)

For more details, visit www.dentistry.ubc.ca/alumni or email alumni@dentistry.ubc.ca

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

UBC DENTISTRY

Return undeliverable Canadian addresses to:
UBC Dentistry (Impressions)
204-2199 Wesbrook Mall
Vancouver BC Canada V6T 1Z3

IMPRESSIONS

204-2199 Wesbrook Mall
Vancouver BC Canada V6T 1Z3

T 604 827 3335
E terrysw@dentistry.ubc.ca
dentistry.ubc.ca

Update your address at www.dentistry.ubc.ca/alumni or email alumni@dentistry.ubc.ca

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