

IMPRESSIONS

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THE UNIVERSITY OF BRITISH COLUMBIA

Dean's Message



*Dear Colleagues,
Welcome to the spring–summer 2014 issue of UBC Faculty of Dentistry's Impressions.*

The past year has been both a challenging and exciting one at UBC Dentistry. Our faculty members continue to generate research data leading to critical advances in understanding the diagnosis, management and treatment of oral diseases. Graduate students have continued an outstanding record of success on the National Dental Specialty Examination leading to Fellowship in the Royal College of Dentists of Canada. And our dental and dental hygiene 2014 graduates were all successful on their National Board examinations and have gone on to the next stages of their careers.

We continue to progress in the three main themes of our Strategic Plan—enhancing the student experience, amplifying the research volume and increasing community involvement—generating outcomes that bring much credit to the students, staff and faculty of the UBC Faculty of Dentistry. In particular, our community service program continues to grow, with nearly 30 volunteer community dental clinics planned for the next year to provide oral health care to people with limited access.

This year is particularly noteworthy, as we are celebrating the 50th anniversary of UBC Dentistry. This issue provides information on the 50th anniversary events that have already taken place and on those that will be happening in the next few months. Two of the major articles also focus on the 50-year

history of UBC Dentistry, reviewing our progress in research and changes in teaching and learning. These articles provide considerable perspective, characterizing where UBC Dentistry has been, where we are now and where we intend to be in the future.

In looking back on the 50 years of UBC Dentistry, we have observed some interesting family linkages that have occurred. In this issue, you will find a family tree that displays the family linkages among our alumni. We hope to identify more of these family legacies for future issues of *Impressions*.

You will also find numerous news items reporting the recognition, by outside groups, of the accomplishments of our students, staff and faculty members. It is particularly noteworthy that our research-intensive faculty members are receiving prestigious international awards for their scientific achievement.

I am pleased to announce that we have had another graduate program approved this year: the MPH–Dental Public Health program, which will admit the first students in September 2014. This dental public health program will provide important new ways of examining, and determining effective approaches to, the public health issues of oral diseases.

One way we believe we can help address the oral health problems of people with limited

access to care is by providing a mobile community dental clinic that can travel to isolated populations. There has been tremendous interest in the potential of this program idea, and considerable support to purchase the mobile clinic and initiate the program.

Our fundraising efforts allow us to develop new initiatives that cannot be funded through our operating grant. These initiatives have increased the visibility of UBC Dentistry in the province and have raised the profile of the dental profession in meeting the needs of the entire population.

I remain incredibly impressed by all the students, staff and faculty of UBC Dentistry, and I am excited by our future opportunities. I think this issue of *Impressions* demonstrates the remarkable achievements of the past 50 years and our preparation for continued outstanding accomplishments in the next 50 years.

All the best,

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

PHOTO BY MARTIN DEE | COVER PHOTO BY MICHELLE LAMBERSON

NEWS

New Graduate Program: Dental Public Health



The University of British Columbia now offers a graduate program in dental public health. Approved by the board of governors last April, the first intake of students to pursue a combined Master of Public Health degree from the Faculty of Medicine School of Population & Public Health with a diploma in Dental Public Health from the Faculty of Dentistry will begin in September.

Dental public health is an area of dentistry focused on promoting oral health as well as preventing and controlling oral and dental diseases.

The two-and-a-half-year program at UBC is non-clinical and no thesis is required. It involves course-based work that focuses on research and experience in the field.

“The curriculum is ingrained in critical thinking and evidence-based practice that combines a broad spectrum of courses from the UBC School of Population & Public Health and the Faculty of Dentistry,”

explains Dr. Mario Brondani, Dentistry assistant professor and interim director of the program.

Research areas in the program may include community-based health programs and interventions, health disparities and determinants of oral health, health policy and critical issues in dental public health, program evaluation and oral health services utilization, access to care by marginalized communities, and analysis of health expenditures using provincial, national and international data sets.

The field experience component is a six-month practicum at a local, national or international organization. Students will develop a major capstone project related to their practicum placement and will be encouraged to publish their capstone project results.

“The program is an ideal fit for graduates of UBC’s Dental Hygiene Degree Program looking for an advanced educational avenue,” notes Dr. Edward Putnins, associate dean of Research, Graduate & Postgraduate Studies. Applicants for the program should hold a Bachelor of Dental Science in Dental Hygiene degree or equivalent dental hygiene education with a four-year bachelor’s degree, or a Doctor of Dental Medicine degree or equivalent. Applications for the 2015 intake may be submitted December 1, 2014, to March 1, 2015.

For more information about the graduate program in Dental Public Health, including course requirements and the application process, visit www.dentistry.ubc.ca/dph

International College Recognizes Sweet, Inducts Faculty and Alumni



Dr. David Sweet OC (R) receiving the Presidential Citation from Dr. Jack C. McLister, president, International College of Dentists Canadian Section.



Dr. Leandra Best, associate dean, Academic Affairs, receiving Fellowship in the International College of Dentists from Dr. Randall Crouse, president-elect, International College of Dentists Canadian Section.



Dr. Edwin Yen, professor and former dean, receiving Fellowship in the International College of Dentists from Dr. Randall Crouse, president-elect, International College of Dentists Canadian Section.

The International College of Dentists (ICD) Canadian Section bestowed this year's Presidential Citation on Dr. David Sweet OC. The honour recognizes Sweet, a forensic odontology expert and UBC Dentistry's associate dean of Students, for his outstanding contribution to dental science, forensic dentistry, dental education and humanitarian endeavours in Canada and around the world.

The prestigious citation was conferred at the ICD Canadian Section annual convocation in Vancouver on March 7, 2014.

At the convocation, Sweet, a Fellow since 1998, also witnessed several UBC faculty members and alumni colleagues inducted as new Fellows: Dr. Leandra Best, associate dean, Academic Affairs; Dr. Edwin Yen, professor and former dean; and Drs. Rick Hallett (DMD 1978), Bill Tyler (DMD 1991) and Gloria Tyler (Dip DH 1972, DMD 1990).

Dr. Garry Lunn, part-time faculty member and past-president of ICD, was inducted as Master Fellow, a rare distinction for a Fellow who has rendered extraordinarily conspicuous and outstanding service to the college.

The International College of Dentists is the oldest and largest international honour society for dentists in the world. Its 12,000 members (Fellows) are dedicated to the recognition of outstanding professional achievement and meritorious service and to the continued progress of the profession of dentistry for the benefit of all humankind.

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Students Open Their Mouths for Stem Cell Registry



Jared Lee (L) and Anastasios Rinquinha (left photo), second-year dental students, and fourth-year dental students Anderson Hsu (L) and David Chen (right photo), swab their cheeks to register their genetic code in the national stem cell registry.

The Dental Undergraduate Society, in partnership with OneMatch Stem Cell and Marrow Network and the Other Half—Chinese Stem Cell Initiative, opened their mouths and swabbed their cheeks on March 13 to support the national stem cell registry. By registering their genetic code on the registry's database, students became eligible to donate their stem cells to a patient with such deadly diseases as leukemia and aplastic anemia. "It's a race against time for patients needing this life-saving treatment, and having a large database of possible genetic matches is a big step towards a cure," says Chris Dare, a third-year dental student. Over 100 dental and dental hygiene students participated, making each one of them a potential lifesaver.

OneMatch Stem Cell and Marrow Network, administered by Canadian Blood Services and member of an international network of registries, finds and matches volunteer donors to patients who require stem cell transplants. **Other Half—Chinese Stem Cell Initiative** works in collaboration with OneMatch to close the gap of Chinese under-representation in the global stem cell donor registry. Other Half conducts awareness campaigns and stem cell drives in the Chinese Canadian community.

Christopher Overall: CNPN Distinguished Researcher

The Canadian National Proteomics Network (CNPN) honoured Dr. Christopher Overall, Dentistry professor and Canada Research Chair in Metalloproteinase Proteomics and Systems Biology, with this year's CNPN-Tony Pawson Proteomics Award (named for the late Dr. Tony Pawson, an international leader in proteomics). This distinguished researcher award acknowledges Overall's outstanding contributions to the Canadian proteomics community, and his remarkable achievements in the fundamental understanding and practice of proteomics in biological sciences.

An international leader in proteomics, Overall is recognized for his seminal contributions to the field of degradomics, the systems-level investigation of protein turnover by proteolysis (a term he coined), and for developing "polymers for proteomics." He has focused on understanding the role of matrix metalloproteinases in various diseases and pathologies, particularly in cancer, infection and inflammation. He has revolutionized the protease field by developing a series of groundbreaking techniques to isolate and identify protease cleavage products as distinct

from normal and diseased tissues. Overall is an active member of the Human Proteome Project, an international effort of the Human Proteome Organization to map the entire human proteome.

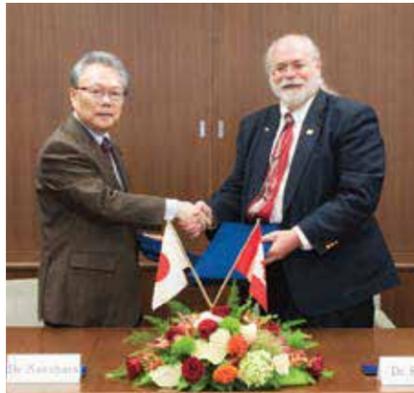
A prolific researcher, with over 200 publications (including 19 papers in *Nature Review*, *Nature Journal*, *Science* and *Science Signaling*), which have been cited more than 12,600 times, Overall also has numerous patents at various stages of development. In addition to holding the Tier 1 Canada Research Chair in Metalloproteinase Proteomics and Systems Biology, he has won several national and international awards, including the Canadian Institutes of Health Research Researcher of the Year award for 2002. In 2013 Overall received the International Association of Dental Research Distinguished Scientist Award for Research in Oral Biology, and he has lifetime achievement awards from the International Proteolysis Society and the Matrix Biology Society of Australia and New Zealand.

The CNPN award ceremony took place on April 15, 2014, during the network's annual meeting in Montreal, where Overall delivered "Protein TAILS Tell Remarkable Tales," a lecture

detailing his lab's work analyzing pathological tissue. Through mapping proteolytic pathways and their irreversible actions on signalling and cytokine pathways in cancer, inflammation and infection, Overall has uncovered the remarkable role proteases have inside, outside and outside-to-inside cells.



Dr. Chris Overall, flanked by Drs. Leonard Foster and Anne-Claude Gingras, receives the CNPN-Tony Pawson Proteomics Award for outstanding contribution to, and leadership in, the Canadian proteomics community.



Dr. Sen Nakahara and Dr. Charles Shuler signing a student exchange agreement, May 22, 2014, in Tokyo.

UBC and NDU—A New Agreement for Grad Student Exchanges

For more than 25 years, undergraduate dental students from the UBC Faculty of Dentistry and the Nippon Dental University have shared educational exchanges. These exchanges have not only provided an opportunity to become familiar with the dental education at UBC and NDU, but have enhanced the cultural awareness between Canadian and Japanese students.

A new agreement was signed recently, which extends these exchange opportunities to graduate students. UBC Dentistry dean, Dr. Charles Shuler, and NDU president, Dr. Sen Nakahara, signed the agreement in Tokyo on May 22, 2014. This agreement will allow NDU doctoral students to work on dissertation research projects with scientists at UBC Dentistry, where they can learn new techniques and approaches to address their scientific investigations. UBC faculty members will benefit from having bright, motivated Japanese graduate students working in their laboratories. In the long term, new opportunities for scientific collaboration will develop, increasing the research productivity of faculty members at both NDU and UBC.

Christopher Overall and Team Find New Way to Mobilize Immune System Against Viruses

University of British Columbia scientists have uncovered an intricate chain reaction in the body's immune system and have used the knowledge to develop a new treatment against harmful viruses.

Viral pandemics, such as the coronavirus that caused the deadly SARS outbreak in 2002, have caused hundreds of deaths in Canada, yet effective antiviral drugs are rare.

A key element to this natural immune response is an antiviral protein in the blood called interferon alpha. Like soldiers, interferon alpha is quickly deployed by the body to fight viruses and removed just as quickly to restore equilibrium.

The UBC team discovered that an enzyme called matrix metalloproteinase-12 (MMP-12) serves double duty in the deployment of the critical antiviral protein: it first enters the infected cell to activate interferon alpha and then sends it outside the cell membrane to fight viruses. After the job of interferon alpha is done, MMP-12 dissolves the protein during the healing process.

Published in the prestigious journal *Nature Medicine*, the study† was led by Drs. Christopher Overall from UBC Dentistry's Department of Oral Biological and Medical Sciences, Bruce McManus from UBC Medicine's Department of Pathology and

Laboratory Medicine, and David Marchant from the University of Alberta.

Overall has developed a new antiviral drug that blocks MMP-12 from dissolving interferon alpha outside the cell, giving the immune system an added boost by keeping levels of the protein high in the bloodstream. The drug cannot penetrate cell membranes, making it unable to interfere with the beneficial work inside the cell. The drug has been shown to effectively treat viral infections in mice models and holds promise as a new broad-spectrum antiviral treatment.

"Because the drug isn't virus-strain specific and boosts the body's own immune response to fight infections, it could be effective for even emergent, unknown viruses and eliminate the lag time required to first identify and sequence the virus genetic material before we can treat it," says Overall.



†Marchant DJ, Bellac CL, Moraes TJ, Wadsworth SJ, Dufour A, Butler GS, Bilawchuk LM, Hendry RG, Robertson AG, Cheung CT, Ng J, Ang L, Luo Z, Heilbron K, Norris MJ, Duan W, Bucyk T, Karpov A, Devel L, Georgiadis D, Hegele RG, Luo H, Granville DJ, Dive V, McManus BM, Overall CM. (2014). A new transcriptional role for matrix metalloproteinase-12 in antiviral immunity. *Nature Medicine*, 20(5): 493-502.

Dutch Institute Chooses UBC Endodontics Paper as Best in 2013

One of the world's largest dental training institutes, the Academic Centre for Dentistry in Amsterdam (ACTA), chose a UBC Dentistry research publication as the best endodontics article in 2013.

The paper, titled "Effect of the Source of Biofilm Bacteria, Level of Biofilm Maturation, and Type of Disinfecting Agent on the Susceptibility of Biofilm Bacteria to Antibacterial Agents,"† was judged by ACTA's graduate endodontics residents. The residents, in a monthly seminar, evaluate current literature in the field on quality of methodology, clinical significance and foreseeable impact on endodontic literature for the next five to 10 years.

Published in the *Journal of Endodontics*, the paper was written by Drs. Sonja Stojicic (PhD

2013), assistant professor Ya Shen and professor Markus Haapasalo, chair of the Division of Endodontics. The paper is the first to show that oral biofilm composition is much less important than previously thought in regard to sensitivity and resistance of the biofilm (and its bacteria) to a variety of disinfecting agents used in oral hygiene and endodontic treatment.

The study revealed that biofilm maturation (time of growth) was the key factor for resistance development, and that the change from sensitive to resistant occurred at three weeks of biofilm maturation. After three weeks, biofilms grown from different donors all remained resistant, with no apparent changes in the level of resistance.



† Stojicic S, Shen Y, Haapasalo M. (2013). Effect of the source of biofilm bacteria, level of biofilm maturation, and type of disinfecting agent on the susceptibility of biofilm bacteria to antibacterial agents. *Journal of Endodontics*, 39(1): 473-477.

The Head of a Pin: A Medieval Inquiry Meets Modern Imaging Techniques

Imaging specialists at the Centre for High-Throughput Phenogenomics may not yet be able to tell us how many angels can dance on the head of a pin—a concern for scholars in the Middle Ages. But they can tell us how many UBC Dentistry 50th anniversary logos can be jiggled on a pinhead: one, so far, according to Dr. Gethin Owen and Jason Radel.

To help kick off the Faculty's 50th anniversary year, Owen, technical director of electron microscopy, set out to create a unique presentation of the anniversary celebration logo. Using an innovative technique developed with Radel, a graduate student at UBC's Sustainability Solutions Applied Physics Lab, Owen milled the logo into a silicon substrate. The technique extends the capability of the FEI Helios NanoLab 650 DualBeam, which is both a scanning electron and focused ion beam microscope, so that large complex patterns can be precisely milled on surfaces using digital patterns created in bitmap format.

Milling the pattern of Dentistry's 50th logo into silicon was a two-stage process, Owen explains.

The first stage involved creating a 24-bit grey-scale bitmap file of the original image using a photo editing software. At the second stage, milling parameters were determined so that pattern details would be milled onto the substrate at the highest achievable resolution. Each shade of grey in the bitmap determined the ion beam dwell time per pixel: for instance, white pixels indicated longest beam dwell time, while black pixels indicated no milling.

Once these steps were completed, the pattern was placed, virtually, onto the pin's head—and the Helios NanoLab did the rest. What is truly amazing is that the logo is eight micrometres (0.008 mm) in diameter. The final image was first revealed at UBC Dentistry's Annual Research Day this past January.



UBC Dentistry's 50th anniversary logo is seen on the head of a pin. Imaging specialists were able to place and capture it using novel methodology they developed at the Centre for High-Throughput Phenogenomics—UBC's centre of advanced imaging technology at the Faculty of Dentistry.

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

To learn more about UBC Dentistry's 50th anniversary, including the highlight event at the Commodore Ballroom—Fifty Fabulous Years—The Bash!—visit www.dentistry.ubc.ca/50years

ACFD Awards Acknowledge UBC Dentistry Faculty Members



Dr. Anne Charbonneau, associate dean, Academic, University of Montreal; chair, Academic Affairs Committee, Association of Canadian Faculties of Dentistry; Dr. Markus Haapasalo, professor; chair, Division of Endodontics; head, Department of Oral Biological & Medical Sciences, UBC Dentistry; Mr. Ron Suh, president, Bisco Dental Products Canada Inc.

The Association of Canadian Faculties of Dentistry (ACFD) honoured two outstanding UBC Dentistry individuals at the recent ACFD annual general meeting, hosted by UBC Dentistry in Vancouver, on March 6, 2014.

Dr. Markus Haapasalo, professor, chair of the Division of Endodontics and head of the Department of Oral Biological and Medical Sciences, was honoured with ACFD's Bisco National Teaching Award. This award is presented annually to a faculty member who, in the opinion of his or her students and peers, has displayed the qualities of an outstanding teacher and has displayed exceptional interest in, and enthusiasm for, the learning needs of students.

In appreciation of the ACFD recognition, Haapasalo remarked that while he spends most of his time in research, it serves as a background for his teaching, because dentistry should be evidence based. He further added that a goal throughout his career has been to combine teaching and research. Haapasalo regularly presents and teaches at conferences outside the country, proudly representing UBC and Canada, and is an international teaching award winner. This is Haapasalo's first Canadian national award for his teaching.

Dr. Marcia Boyd, professor emerita and former dean of UBC Dentistry, received the Distinguished Service Award. This award is presented, on occasion, to recognize individuals or groups who have made significant contributions to dental education in Canada.

Deeply supportive of ACFD's choice to honour Dr. Boyd with the Distinguished Service Award, Dr. Alan Lowe, professor and chair of UBC Dentistry's Division of Orthodontics, warmly

introduced her as a caring person "with a great sense of humour" and "a genuine compassion for all," who "has served our profession so well." Boyd graciously accepted the award and said she is proud to join the ranks of the organization's previous award winners. She commended the ACFD for being an innovative, forward-thinking group with strong leadership and ideas that are often appropriated across North America.



Dr. Alan A. Lowe, professor and chair, Division of Orthodontics, UBC Dentistry, presented the ACFD Distinguished Service Award to Dr. Marcia Boyd, professor emerita and former dean of UBC Dentistry.

To read more about Drs. Haapasalo and Boyd's achievements honoured by their respective ACFD awards, visit <http://bit.ly/1mzLLMr>

Military Promotion for Prosthodontics Student



From left to right: Dr. David Sweet OC, associate dean, Students; 2nd Lts. Bryce Smiley and Matthew Chin, both second-year dental students; Lt.-Col. Genevieve Bussiere; Maj. Ian Thornton; 2nd Lts. Chris Dare and Allison Nichols, both third-year dental students; Capt. Richard Kratz, second-year graduate prosthodontics student; Maj. Sébastien Dostie, second-year graduate periodontics student; 2nd Lt. Zack Zeiller; Dr. Charles Shuler, dean; and Dr. Chris Wyatt, program director of the specialty graduate program in prosthodontics.

It's not often that third-year graduate prosthodontics student Ian Thornton is seen out of his clinic scrubs or a lab coat and dressed in military uniform. However, even when seeing him in military garb, one might miss the thin gold stripe that was recently added between the two standard gold stripes of his officer rank insignia. This very subtle addition to the insignia is anything but minor: last December Thornton was promoted in rank from captain to major. This promotion requires a minimum of four years in the rank of captain and is based on merit, as will all promotions hereafter.

At a ceremony in the Dean's Office at the Faculty of Dentistry, Lieutenant-Colonel Genevieve Bussiere from Canadian Forces

Base (CFB) Edmonton presented Thornton with his new rank. The ceremony was a full-dress-uniform event, attended by all dental and graduate students enrolled in the Canadian Forces.

Originally from Ottawa, Ontario, Thornton joined the Canadian Forces in 2000. He worked at CFB Borden in Ontario for six years (four years in the dental detachment and two years at the Health Services Training Centre) prior to starting his prosthodontic program at UBC in 2011. Ironically, Bussiere (then a major) was Thornton's very first detachment commander, and now, notified of his impending posting to CFB Edmonton, Bussiere will again be Thornton's first commander as he serves in the new role of dental specialist.

Highlights: Research Day 2014

In celebration of the Faculty's first 50 years and in recognition of its research success, seven diverse alumni were invited to present at Research Day 2014 on January 28. Two are faculty members at UBC, while five hold academic positions around the world.

These internationally recognized scholars—who started their research careers at UBC Dentistry—covered a broad range of topics, including facial pain, oral cancer, periodontal microbiology, platelet activation, craniofacial development and salivary diagnostics.

UBC faculty presenters included Drs. Hugh Kim (MSc/Dip Perio 2005) and Denise Laronde (MSc 2005). The alumni presenters who are now faculty members at other institutions included: Dr. W. Keung Leung (PhD 2005), University of Hong Kong; Dr. Christopher Peck (PhD 2000), University of Sydney, Australia; Dr. Bjorn Steffenson (PhD 1997), Tufts University, Medford, Massachusetts; Dr. Heather

Szabo-Rogers (PhD 2007), University of Pittsburgh, Pennsylvania; and Dr. David Wong (DMD 1981), University of California at Los Angeles.

Research Day 2014 also recognized all the students who graduated from its graduate and postgraduate programs, the postdoctoral research fellows and the visiting scientists/professors who have come to UBC over the past 50 years.

Research Day 2014 took place in the UBC Student Union Building ballroom. All faculty and students attended the annual event.



UBC Dentistry is grateful to the following Research Day 2014 sponsors.

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UBC DHDP Student Wins CDHA Leadership Award

Airra Custodio, a recent Dental Hygiene Degree Program graduate, won the 2014 Canadian Dental Hygienists Association Leadership Award sponsored by Dentsply. Custodio graduated this past May with a Bachelor of Dental Science (Dental Hygiene) degree.

When looking for noteworthy ways to submit her award application, Custodio brainstormed ideas with Prof. Zul Kanji. But, he says, "I had no idea that Airra would submit what she ultimately did." Clinical assistant professor Diana Lin, however, did have an inkling of Custodio's presentation skills: "I knew she was creative when she did a nutrition rap for her team's 310 community project."

Check out Custodio's application video at www.dentistry.ubc.ca/go/cdha2014_award.

The CDHA Leadership Award is conferred on a student who has contributed significantly to his or her local, academic or professional community through involvement and leadership.

During her four years at UBC, Custodio thought well beyond the classroom and lectures—she wanted to make a difference and affect change in the community. She served as president of the UBC Kababayan Filipino Student Association, and led a mentorship

program for Filipino high school students with the Vancouver School Board. Within the dental hygiene profession, she coordinated community projects involving health promotion and clinical services to homeless people, youth and senior women. She also coordinated dental hygiene students at volunteer clinics, led disease prevention initiatives, and for UBC's Day of Imagination, served two years as an orientation leader, connecting first-year dental hygiene students to peer mentors.

Throughout her undergraduate program, Custodio fostered a positive social climate in the dentistry faculty and inspired leadership in many others. She is particularly grateful to the dental hygiene students she worked with in the mentorship program: Chad Huang and Amber Lee, now both third-year students, and Jeremy Huynh, who graduated in 2013.

Custodio's motto: Camaraderie and cohesion.

This is the second year in a row that a UBC dental hygiene student has won this CDHA award. Jeremy Huynh (BDS 2013) was last year's recipient. "Perhaps our students have started a leadership tradition," says Prof. Bonnie Craig, director of UBC's Dental Hygiene Degree Program.

Dentistry fans of intramural sports jumped for joy on March 26, 2014, when Dent United won the Student Recreation Centre (SRC) Futsal League 2014 winter tournament. The UBC Recreation men's team for Dentistry secured the title of Men's Tier 2 Divisional Champions. Futsal is a fast-paced variation of soccer, normally played indoors. The team has done well, garnering championship titles across several sports tournaments over recent school terms. Starting with their latest futsal title:

SRC Futsal League, 2014 (winter): Men's Tier 2 Divisional Champions

Handley Cup Soccer, 2013 (fall): Men's Tier 2 Campus-Wide Champions

Point Grey Flag Football League, 2013 (fall): Division 1 Men's Football Champions

Point Grey Flag Football League, 2012 (fall): Division 1 Men's Football Champions

Sports have always been a big part of Tanmeet Singh's life. The fourth-year dental student has been a Dent United team member since his first year and has been proud to represent the Faculty of Dentistry through various sports offered by UBC Recreation. "I am grateful to be able to take away great memories of playing under the lights with great friends," he says, "and we have been fortunate enough to put together some championship seasons."

Tanmeet hopes the winning tradition keeps going for Dent United. "I encourage everyone to give it a try; it's a good excuse to get away from the books."

Look for more Dent United photos at <http://bit.ly/1hkVD8X>



Watch Airra Custodio's application video at www.dentistry.ubc.ca/go/cdha2014_award



Dent United futsal champs, from left to right: Mudhar Al-bayati, Omar Al-Bakri, Tanmeet Singh (far back), Matthew Chin, Graham Macdonald (seated), Ashkan Afshinkia (holding trophy), Kiavash Hosseini and Fran Rhee. Not in photo: Isaac Tam.

ORANGE REDCap Platform Hosted at UBC



Leading dental sleep medicine researchers from nine countries met in March 2012 to discuss the objectives and feasibility of a world-wide study focusing on outcomes of oral appliance therapy (see *Impressions* spring 2012). At that meeting, the Oral Appliance Network on Global Effectiveness (ORANGE) began to blossom, and now is bearing fruit.

ORANGE recently launched the website (www.orangesleepgroup.com) for its multinational observational cohort study involving worldwide data collection. Through the website, researchers will collect and manage patient data using REDCap (Research Electronic Data Capture), a secure, web-based application hosted at UBC.

The primary aim of the ORANGE study is to evaluate the long-term effectiveness of oral appliance (OA) therapy in patients with obstructive sleep apnea (OSA) and to assess long-term health outcomes of OA therapy related to cardiovascular disease. OA therapy is the main non-surgical alternative to continuous positive airway pressure (CPAP) treatment. CPAP involves a mask—most commonly a nasal mask attached to an apparatus that forces air into the lungs. Most oral appliances work by holding the jaw closed while moving the tongue and jaw forward to open the airway.

Dr. Fernanda Almeida, assistant professor and expert researcher in dental sleep medicine at UBC, chairs the network's steering committee and co-leads the initiative with Dr. Oliver Vanderveken from the University of Antwerp, Belgium. In a recent paper, Almeida and co-authors state that while studies over the past 15 years indicate benefits from OA therapy, it remains unclear how those benefits compare to CPAP. They explain the need for standardized data along with variable data. For a deeper discussion, see F. Almeida et al, *Journal of Dental Sleep Medicine* (April 2014).

Faculty of Dentistry External Awards and Recognition in 2013 - 2014

RECIPIENT	AWARD/RECOGNITION
Dr. Martin Aidelbaum, Clinical Associate Professor; Chair, Division of Oral & Maxillofacial Surgery	Award of Merit, College of Dental Surgeons of British Columbia
Dr. Fernanda Almeida, Assistant Professor	Award of Merit, College of Dental Surgeons of British Columbia
Dr. W. Leandra Best, Clinical Associate Professor; Associate Dean, Academic Affairs	Inducted into the International College of Dentists as a Fellow
Dr. Marcia Boyd, Professor Emerita; former Dean	Distinguished Service Award, Association of Canadian Faculties of Dentistry Officer of the Order of Canada
Dr. Brian Chanpong, Clinical Assistant Professor	Award of Merit, College of Dental Surgeons of British Columbia
Dr. Markus Haapasalo, Professor; Chair, Division of Endodontics; Head, Department of Oral Biological & Medical Sciences	Bisco National Teaching Award, Association of Canadian Faculties of Dentistry
Dr. Garry Lunn, Clinical Assistant Professor	Inducted into the International College of Dentists as a Master Fellow
Dr. Christopher Overall, Professor; Canada Research Chair in Metalloproteinase Proteomics and Systems Biology	Tony Pawson Proteomics Award, Canadian National Proteomics Network
Dr. Charles Shuler, Professor; Dean, Faculty of Dentistry	Distinguished Alumnus Award, Harvard School of Dental Medicine
Dr. David Sowden, Clinical Assistant Professor	Award of Merit, College of Dental Surgeons of British Columbia
Dr. David Sweet OC, Professor; Associate Dean, Students	Presidential Citation, International College of Dentists, Canadian Section
Dr. Edwin Yen, Professor; former Dean	Inducted into the International College of Dentists as a Fellow
Maha Al-Sahan, PhD candidate	First Place, poster award for "Systematic Review of Psychological Theories Relevant to Chronic Oral Impairment/Disability" (Al-Sahan M, MacEntee M, Bryant R), Network for Canadian Oral Health Research



Dr. Maha Al-Sahan, a UBC Dentistry graduate prosthodontics student, won the First Place Poster Award from the Network for Canadian Oral Health Research, at a student workshop held in Edmonton, Alberta, on June 17, 2014. Al-Sahan explains her research is about exploring psychosocial theories relevant to loss of body parts and applying or developing a theory or theories to explain how people cope with, and adapt to, complete tooth loss.



Dr. Charles Shuler, professor and dean, at Harvard School of Dental Medicine receiving the Distinguished Alumnus Award.

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

'The Dynamic Engine That Drives Knowledge Forward'— 50 YEARS OF RESEARCH AT UBC DENTISTRY

BY MARK WITTEN

More Than a 'Repair' Service: Dentist As Oral Physician

Only a year before he was recruited as the second dean of the Faculty of Dentistry at UBC, George Beagrie spoke to an international gathering of dental researchers in Copenhagen about his vision of research and the future of dentistry. "We have to convince society that dentistry is more than a repair service," proclaimed Beagrie in his warm Scottish brogue, while delivering the inaugural address as president-elect of the International Association of Dental Research (IADR) on March 31, 1977.

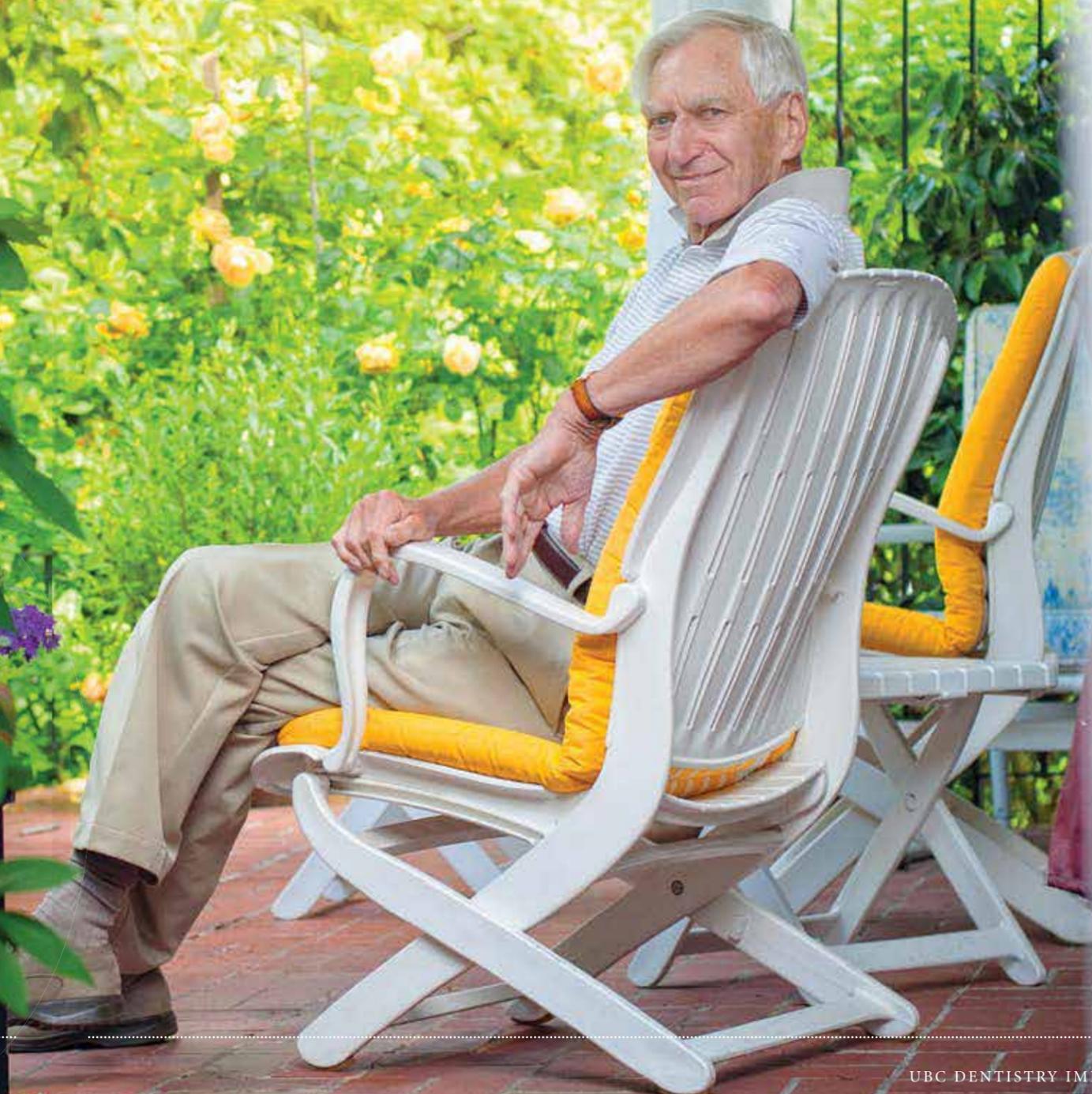
In a talk titled "Why Research?" Beagrie articulated some ambitious ideas and key themes that he would boldly and energetically put into practice as dean at UBC from 1978 to

1988. He argued that strong, productive research programs in dental schools were essential for progressive development of the profession, a more profound education than basic training for general dentists, and advances in oral care and health to benefit not only the individual patient, but all people in different cultures, socio-economic settings and countries throughout the world.

"The use of research then is to avoid the creation of a profession swallowed up by technology and capable, instead, of scholarship and furtherance of knowledge. Without research in the present and the future, dentistry will remain stagnant and dentists mere technologists, with the public served badly as a result," said Beagrie, who envisioned future dentists as oral physicians, not just oral technicians.

At the University of Edinburgh in his native Scotland, Beagrie had earned a reputation for his research in periodontal disease and was appointed chair of Restorative Dentistry, a department that included prosthodontics, endodontics, operative dentistry, crown and bridge, and pedodontics. He became a full professor at a young age and led a department almost as large as the entire UBC clinical faculty of dentistry was in the 1970s. As chair, he thoroughly enjoyed directing and supporting a cadre of capable researchers: "You can have ideas, but the ideas have legs and need other people to expand them," he says.

Beagrie credits Jens Waerhaug of Oslo University in Norway as the catalyst for his interest in investigative research. He also gained valuable international experience and a worldly perspective through his long-time collaboration with Danish researcher Mogens



Dr. George Beagrie

PHOTO BY MARTIN DEE

Knowledge Translation—The Klearway™ Appliance

Alan Lowe's invention of the pioneering oral appliance, Klearway, to treat snoring and obstructive sleep apnea is a classic example of research translation. After completing a PhD thesis titled "The Neural Control of Tongue Posture," and joining the UBC Faculty of Dentistry in 1976, Lowe's basic research studies on airway size and tongue muscle activity eventually led to his development of the FDA-approved Klearway device and first commercial sales in 1995.

During sleep, the tongue falls back against the back of the throat, obstructing the airway. The Klearway appliance works by keeping the teeth together and holding the lower jaw and tongue forward to open the airway, allowing patients to remain comfortable during sleep. A large clinical trial, funded by the Canadian government, demonstrated a 71 percent success rate for treating sleep apnea.

Klearway's outstanding clinical and commercial success illustrates the multiple benefits that can result from the translation of basic research findings into an application that significantly improves the health of patients. "Direct Klearway manufacturing and sales to dentists have generated revenues to UBC of \$12.6 million over the past 20 years, resulting in a myriad of economic and social benefits for Canada. Royalties have been used in part to employ a series of graduate students, postdoctoral Fellows and research staff, and have resulted in the publication of a significant number of articles in dental sleep medicine," says Lowe.

Dental office sales of more than 12,500 Klearway appliances in Canada and over 40,000 worldwide have provided a significant number of jobs for Canadians and benefited tens of thousands of patients. Lowe's invention has also had a much broader influence on the respiratory health and quality of sleep for countless patients and their bedmates by creating a market that now features more than 100 competing oral appliances.

Read more about Alan Lowe and Fernanda Almeida's research in the fall 2011 *Impressions* magazine article "And to All a Good Night! UBC Leaders in Dental Sleep Medicine" at www.dentistry.ubc.ca/go/sleep

Skougaard and a prestigious Nuffield Research Fellowship that took him to the University of Michigan at Ann Arbor in 1957.

The University of Toronto Faculty of Dentistry wooed Beagrie and his family to Toronto, where he started as head of clinical sciences in 1968 and remained for the next decade. In 1969, he produced confidential reports on the 10 dental faculties in this country for the Medical Research Council (MRC) of Canada (now the Canadian Institutes of Health Research). He found minimal research activity in most places, including UBC.

When Beagrie was asked to become dean at UBC almost a decade later, he initially declined but accepted after UBC president Douglas Kenny assured he would have the support to carry out his vision. "Once a door opens, it's hard to shut it," recalls Beagrie.

As dean, he sprang into action to vigorously build and expand the faculty's fledgling research enterprise. "When I came here in 1978, there was a paucity of research, an undergraduate dental program and a diploma program in dental hygiene. There were no graduate programs, no specialty programs, no hospital dentistry, no hospital dental residencies, no pathology biopsy service or oral pathology residents. When I left in 1988, we had all of the above in place," says Beagrie, who added specialty training in periodontics, an MSc in dental sciences and a doctorate in oral biology. The establishment of these early graduate and specialty programs helped to drive the growth of research activity and lay the foundation for what the faculty is today.

As a young buck starting out at the University of Edinburgh, Beagrie was brimming with research ideas but felt stifled in his attempts to pursue them until he achieved a position of seniority. At UBC, he set out to create a more welcoming, supportive atmosphere for young investigators and encouraged them to develop fresh areas of research. Through Medical Research Council training grants, he seeded a number of young researchers at UBC, including Alan Lowe, Ed Yen and Tim Gould, who went on to have long and productive research careers. "I wanted to create a feeling of excitement in doing research and made a point of showing my own interest in what people were doing," he says. His expansive attitude and ethos matched the campus milieu. "There was

an atmosphere of freedom at UBC. I felt supported for the kind of thing I was doing."

Beagrie also believed in broadening research and education through international exchange. Under his leadership, the Faculty established World Health Organization (WHO) international collaborative centres with Thailand, Japan, Syria, Maryland in the United States and Manchester, England. In a WHO 1985 clinical experimental project in rural Thailand, for example, Beagrie and WHO colleagues educated village elders about periodontal disease and developed a simplified assessment method that youth with leadership ability could learn and use to look after the oral health of local hill tribes.

"It pleases me to see those ties not only preserved but expanded, both through inter-faculty visits and graduate students coming here from these and other lands," he commented in a talk at the 2011 annual Research Day on January 25, coincidentally the birthday of Robbie Burns, Scotland's national poet. Beagrie aptly opened his presentation, "Meaning of the Day," with a Burns poem that pertained to the day's topic, dignity and quality of life for a frail population:

*Some hae meat and canna eat,
And some wad eat that want it;
But we hae meat, and we can eat,
And sae the Lord be thankit.*

He spoke about eating as one of the greatest pleasures in life for the elderly and frail, and of the pressing need for today's dental researchers to find solutions for the special oral health needs of "some who have plenty of food but difficulty in eating it," as the Scottish poet wrote.

Beagrie concluded by issuing a challenge to the current generation of UBC Dentistry researchers: "Will you be marking the faculty's 50th anniversary with some significant new research discovery—maybe a new educational model for looking to the dignity and quality of life for a frail population?"

Over Four Decades of Sky-Is-the-Limit Research Growth

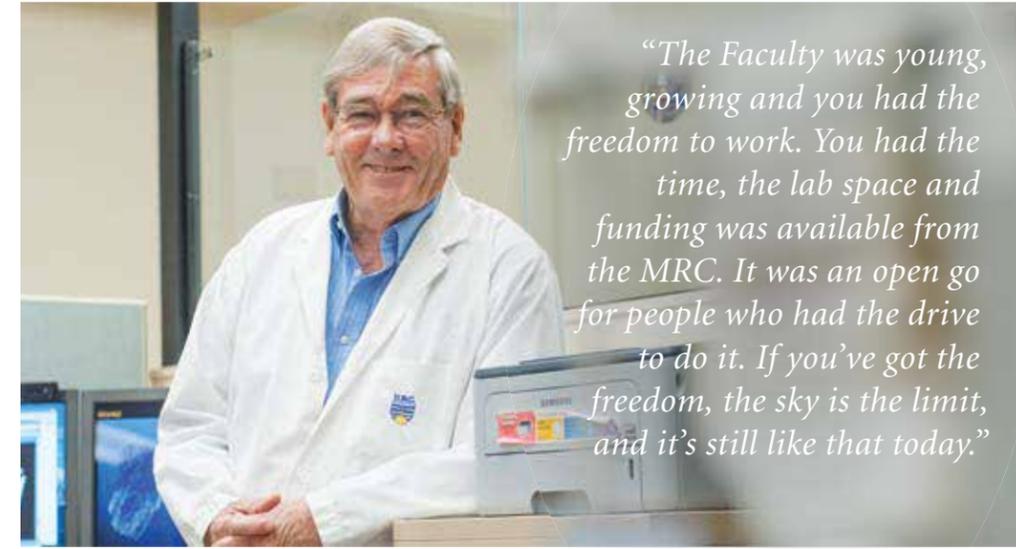
A climate of opportunity for young and new faculty to develop their own lines of research. The freedom and encouragement to engage in cross-disciplinary collaborations with investigators from other faculties and departments. That open-ended environment is what attracted Alan Hannam to UBC Dentistry in 1969, where the seeds of future research growth were starting to sprout under Dr. S. Wah Leung, the Faculty's first dean.

After graduating from dental school in Australia, obtaining a clinical postgraduate fellowship in London and earning a PhD in physiology from the University of Bristol in England as a Nuffield Research Fellow, Hannam could have planted himself anywhere. But he chose UBC as his launching pad for a career in research.

"The Faculty was young, growing and you had the freedom to work. You had the time, the lab space and funding was available from the MRC. It was an open go for people who had the drive to do it. If you've got the freedom, the sky is the limit, and it's still like that today," says Hannam, an emeritus professor who at 75 keeps teaching and continues to do research in orofacial science, jaw biomechanics and masticatory system modelling 45 years later.

"When I joined the Faculty, and during the early 1970s, there was a small nucleus of active researchers in several of our departments. They included Leon Krintz, Joseph Tonzetich and Paul Osmanski in the Department of Oral Biology, Clement Lear in the Department of Orthodontics, and Richard Roydhouse and Trevor Harrop in the Department of Restorative Dentistry. These faculty members typically had some funding from external sources and ran laboratories that supported full-time technicians," recalls Hannam.

Others who strongly contributed to the Faculty's research development in those early expansionary years and became senior investigators included Virginia Diewert, Alan Lowe, Don Brunette and Ravindra Shah, followed later by Michael MacEntee, Joy Richman, Dorin Ruse, Chris Overall and Hannu Larjava. The increasing number of faculty supported by the MRC encouraged the



Dr. Alan Hannam

"The Faculty was young, growing and you had the freedom to work. You had the time, the lab space and funding was available from the MRC. It was an open go for people who had the drive to do it. If you've got the freedom, the sky is the limit, and it's still like that today."

recruitment of more trained technicians, better research facilities and, says Hannam, collaborations with clinical faculty who otherwise may not have pursued research, such as Bill Wood in the Department of Restorative Dentistry, who became a very active research colleague in Hannam's lab.

As research activities grew and graduate programs were introduced under Dean George Beagrie, the cross-fertilization between researchers from Dentistry and other faculties also flourished. "Many graduate students in Dentistry and several visiting scientists in our Faculty collaborated with Barry McBride and his research group in the Department of Microbiology in the Faculty of Science, especially during the 1980s," says Hannam, noting that McBride later became head of Dentistry's Department of Oral Biology.

At a 2008 IADR satellite symposium honouring Hannam as one of three "giants" in orofacial neuroscience, seven accomplished researchers who had trained in his lab paid tribute to their encouraging mentor, describing his influence and presenting their own subsequent research. These protégés, and in some cases long-term collaborators, went on to pursue successful academic and research careers at universities in Hong Kong, Japan, the Netherlands, Australia, North Carolina, Toronto and Vancouver, in diverse areas such as healthy aging, bone tissue remodelling, mammalian jaw biomechanics, maxillofacial

radiology, orofacial pain, occlusal function and computer simulation.

Hannam's own research on jaw biomechanics has evolved with the times toward promising new clinical applications. In a classic example of cross-disciplinary collaboration, he worked in recent years with Sidney Fels and Ian Stavness (a UBC PhD grad now teaching at the University of Saskatchewan), from the Faculty of Applied Science's Department of Electrical and Computer Engineering, on the development of a physics-based dynamic jaw and tongue modelling tool called ArtiSynth. This 3D interactive tool is capable of simulating the movements of the hard and soft tissues of the upper airway, including the jaw, tongue, pharynx and larynx.

One potential application of ArtiSynth now being tested is to assist surgeons and prosthodontists in planning reconstructive jaw surgery and restoring function in oral cancer patients. "The goal is to simulate the effects of musculoskeletal surgery on post-cancer patients before actually doing it. Modelling a variety of potential jaw reconstructions and their outcomes could help optimize functions like speech and chewing, which are often compromised in these patients," says Hannam.

“The fun and enjoyment of research is related to curiosity and the problems you are solving. The golden rule is that surprising results are opportunities for research. You get a feeling of delight when the unexpected happens.”



Dr. Don Brunette

Collaborating Across Disciplines Toward Clinical Application and Commercialization

Don Brunette was among the first in a new wave of talented researchers recruited by Dean George Beagrie. He came to UBC Dentistry from the Medical Research Council Group in Periodontal Physiology at the University of Toronto in 1979. “I was offered tenure at a better salary, and there was the attraction of living in Vancouver,” recalls Brunette, who had earned a PhD in medical biophysics and would soon have an impact on the future development of novel implants.

In 1983, he began his breakthrough work on the role of microfabricated titanium surfaces on cell behaviour. “I had this original idea that the particular topographic features of microfabricated surfaces could control cell migration and be applied to dental implant systems,” says Brunette, who showed that microscale grooves on titanium surfaces could direct cells in the desired directions and encourage bone growth. His pioneering research led to the development of novel dental implants by a Vancouver manufacturer, and later a US firm that used lasers to produce a commercially successful dental implant with small grooves.

Brunette’s success in translating basic research into clinical applications that benefit patients has been a result of fruitful, cross-disciplinary

collaborations. “I’ve had long-term collaborations with the Department of Computer and Electrical Engineering at UBC to produce surfaces with precisely defined topographies, and with the Swiss Federal Institute of Technology Zurich to characterize surfaces,” says Brunette, whose current research on developing surfaces to induce healing could have wider application to other implants, including hip joints, catheters and other devices that contact diverse tissues.

When Brunette joined the Faculty in 1979, the attitude toward research was changing dramatically. “Research became much more important in the life and culture of the Faculty. When recruiting, you looked for people with that internal drive to do research rather than someone who saw it as an unpleasant duty. Professors were recognized for the quality and productivity of their research in promotions and tenure,” he says.

A notable colleague of Brunette’s from the early years, Joe Tonzetich, pioneered research on halitosis that had widespread practical applications for consumers in oral care. Tonzetich discovered that volatile sulfur-containing compounds were the key culprits of bad breath. “Joe’s research on the effects of zinc with baking soda on oral malodor led to the development of new mouthwashes and toothpaste products by companies like Arm & Hammer. He also helped out a lot of other people with their research,” says Brunette, who later served as associate dean of research and

graduate studies (1997–1998) and associate dean of research (2000–2006).

Over the past several decades, the Faculty’s research activities have continued to expand in breadth, scope and output in both basic and clinical research. “The current way science is judged and measured is by citations. It’s satisfying to publish papers and see other researchers use them. The growth in citations has been really strong, and the Faculty is having a lot more impact in research,” says Brunette. A statistical analysis of UBC Dentistry’s most cited research papers from 1995 through 2013 shows a striking trend: the number of citations per year has increased steadily and more than quadrupled during that period.

After a 35-year career directing and doing research at UBC, Brunette remains as passionate as ever about the pursuit of new knowledge. “The fun and enjoyment of research is related to curiosity and the problems you are solving. The golden rule is that surprising results are opportunities for research. You get a feeling of delight when the unexpected happens,” he says.

More Research Articles Online

Interested in reading more about UBC Dentistry research and the translation of basic research findings? Check out these *Impressions* articles online:

Building Better Implants—Cell by Cell, Nanometre by Nanometre

The Vanguard of Restorative Biomaterials Research

Host-Grown Tissue and Bone—Using Stem Cells in Periodontal Regeneration

Reaching Out to Combat Oral Cancer

Exploring the Role of Enzymes in Disease

Battling Biofilms—Innovations in Endodontics

ELDERS Wisdom Improves Seniors’ Quality of Life

Oral Insights Into Scarless Wound Healing

Toward a Healthy Smile for Every Child

The Overall Approach: Periodontology Research—Finding the Key to Immune Response and the Role of MMPs in Inflammation

www.dentistry.ubc.ca/go/researcharticles

Driving Big-Science Innovation Toward Tomorrow’s Medicine

Ed Putnins, associate dean of Research, Graduate and Postgraduate Studies, sees research as the dynamic engine that drives knowledge and innovation forward. “Research is the only way for the dental profession to develop new products, techniques and approaches to oral health care,” he says.

One way to amplify research productivity and accelerate knowledge translation is by promoting more frequent and fruitful collaborations between dental faculty and researchers across the university. In an era of big science, large multidisciplinary research groups are often needed to tackle complex health problems. “People develop their own areas of research. But our focus is on creating an infrastructure of people collaborating within the Faculty and across different faculties to enhance the rate at which new products and therapies are developed,” says Putnins.

The Faculty of Dentistry’s new Centre for High-Throughput Phenogenomics is an example of a bold research initiative that brings together UBC researchers across dentistry, pharmacy, medicine, science and engineering, with the goals of developing new therapies for bone-destructive diseases and new approaches to repair skeletal and facial bone malformations. As designated project leader for the \$10.1-million bioimaging infrastructure project, Putnins assembled top UBC researchers from multiple disciplines to win federal and matching provincial funding to create this cutting-edge facility in 2011 (see *Impressions* fall 2009 “Moving to the Forefront of Bioimaging” online at www.dentistry.ubc.ca/go/moving).

“The dental faculty is playing a leadership role in supporting the development of research across the university through this facility and cross-disciplinary collaborations among researchers with complementary expertise,” says Putnins.

The current and future direction of research at UBC Dentistry connects to its roots in former Dean George Beagrie’s vision of the dentist as an oral physician, linking the principles of oral health and disease to health and disease in the rest of the body. This is exemplified through the work of many Faculty researchers like Alan



Dr. Edward Putnins

“The challenge and opportunity for Faculty researchers today is to build on the foundation of success established over the past 50 years and to continue our efforts to find solutions for the oral and medical health care needs of tomorrow’s society. This is an opportunity our Faculty is actively working to support.”

Lowe, whose foundational research on airway size and tongue muscle activity led to the invention of the Klearway, a highly successful oral appliance used to treat snoring and obstructive sleep apnea (see sidebar on page 14).

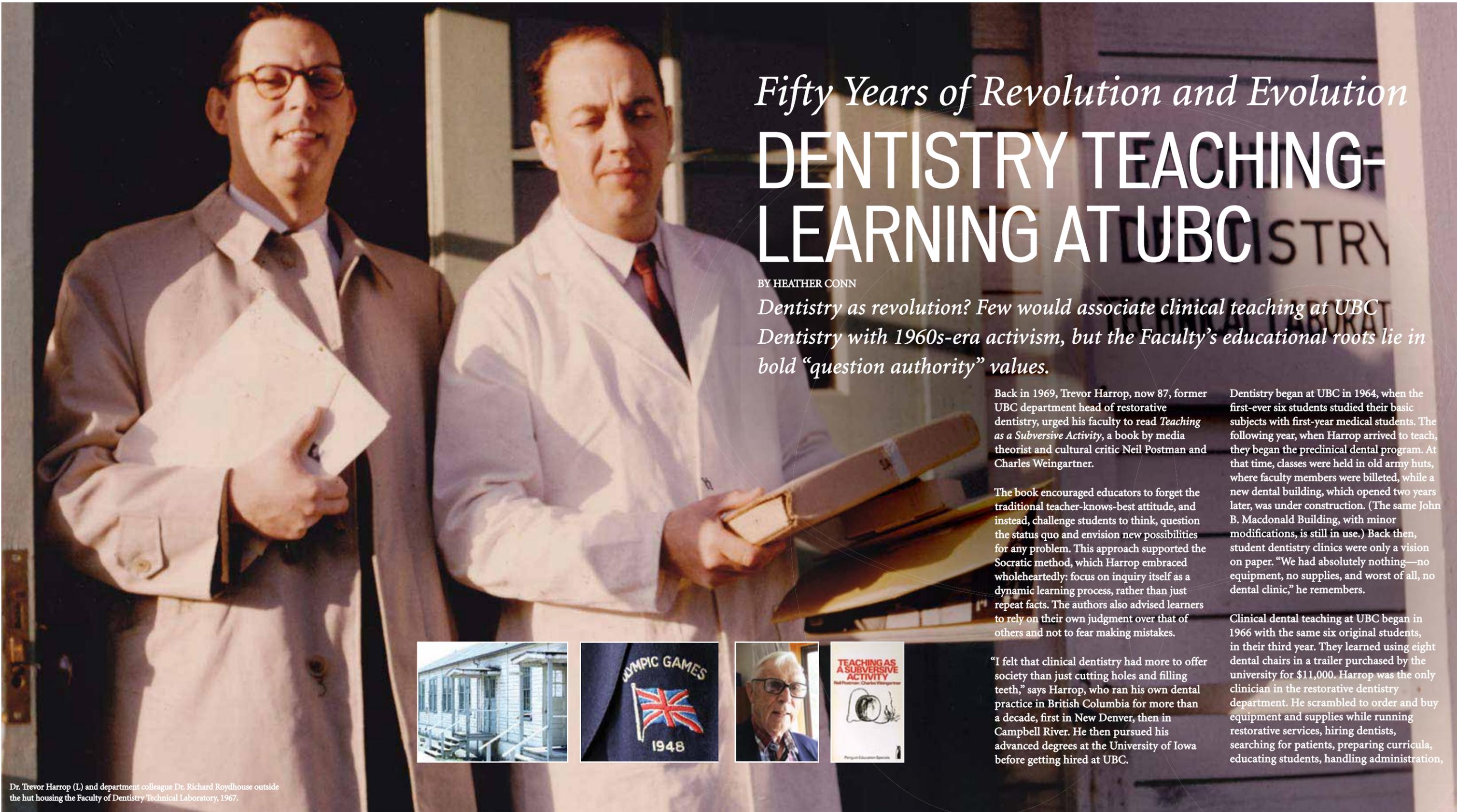
Chris Overall’s research on matrix metalloproteinase (MMP) enzymes in periodontal disease has led to discoveries that could help control other chronic inflammatory diseases such as arthritis. He also recently reported in *Nature Medicine* that MMP-12 does double duty, mobilizing the immune system against unknown viruses by entering infected cells to activate the antiviral protein interferon alpha, and then sending the protein outside the cell membrane to attack viruses (see page 6 in this issue of *Impressions*). Hannu Larjava is studying the non-scarring properties of gingiva (gums) to improve wound healing in the rest of the body and reduce scarring. Putnins’ own research on the regulation of chronic inflammation in relation to periodontitis has now expanded to include analysis of other mucosal diseases, such as Crohn’s and ulcerative colitis.

Multidisciplinary community- and population-based research programs are equally active in the Faculty. Michael MacEntee’s visionary work exploring the oral health care needs of our geriatric population led to the development of the highly successful ELDERS (Elders Link with Dental Education, Research and Service) group. Many elderly patients have benefited from a

lifetime of advanced, complex oral health treatment (e.g., implants) and require ongoing care to maintain their oral health. With this complex dental care, it has become even more important to extend research to better understand the impact aging has on oral health.

Other population-based research at UBC Dentistry includes Rosamund Harrison’s investigations into oral health disparities and early childhood tooth decay, notably in South Asian and Vietnamese populations in BC and in Cree communities in remote Quebec villages; Mario Bondani’s dental public health focus on health values and beliefs, and on HIV/AIDS and aging; and Kavita Mathu-Muju’s examination of factors affecting children’s access to oral health care.

“The challenge and opportunity for Faculty researchers today is to build on the foundation of success established over the past 50 years and to continue our efforts to find solutions for the oral and medical health care needs of tomorrow’s society. This is an opportunity our Faculty is actively working to support,” says Putnins.



Fifty Years of Revolution and Evolution DENTISTRY TEACHING- LEARNING AT UBC

BY HEATHER CONN

Dentistry as revolution? Few would associate clinical teaching at UBC Dentistry with 1960s-era activism, but the Faculty's educational roots lie in bold "question authority" values.

Back in 1969, Trevor Harrop, now 87, former UBC department head of restorative dentistry, urged his faculty to read *Teaching as a Subversive Activity*, a book by media theorist and cultural critic Neil Postman and Charles Weingartner.

The book encouraged educators to forget the traditional teacher-knows-best attitude, and instead, challenge students to think, question the status quo and envision new possibilities for any problem. This approach supported the Socratic method, which Harrop embraced wholeheartedly: focus on inquiry itself as a dynamic learning process, rather than just repeat facts. The authors also advised learners to rely on their own judgment over that of others and not to fear making mistakes.

Dentistry began at UBC in 1964, when the first-ever six students studied their basic subjects with first-year medical students. The following year, when Harrop arrived to teach, they began the preclinical dental program. At that time, classes were held in old army huts, where faculty members were billeted, while a new dental building, which opened two years later, was under construction. (The same John B. Macdonald Building, with minor modifications, is still in use.) Back then, student dentistry clinics were only a vision on paper. "We had absolutely nothing—no equipment, no supplies, and worst of all, no dental clinic," he remembers.

Clinical dental teaching at UBC began in 1966 with the same six original students, in their third year. They learned using eight dental chairs in a trailer purchased by the university for \$11,000. Harrop was the only clinician in the restorative dentistry department. He scrambled to order and buy equipment and supplies while running restorative services, hiring dentists, searching for patients, preparing curricula, educating students, handling administration,

"I felt that clinical dentistry had more to offer society than just cutting holes and filling teeth," says Harrop, who ran his own dental practice in British Columbia for more than a decade, first in New Denver, then in Campbell River. He then pursued his advanced degrees at the University of Iowa before getting hired at UBC.



Dr. Trevor Harrop (L) and department colleague Dr. Richard Roydhouse outside the hut housing the Faculty of Dentistry Technical Laboratory, 1967.

PHOTO FROM UBC DENTISTRY ARCHIVE - INSET PHOTOS COURTESY OF GREG NESTEROFF



doing research and assigning lecture times. “It wasn’t easy,” he says.

By the time the second clinical class began in 1967, enrolment in this class had more than tripled to 19 men and one woman (E. Lin, the first in the faculty). Gradually, more female students appeared. Today, they comprise almost half of all students in UBC’s Doctor of Dental Medicine program.

Restorative dentistry at UBC began with six areas of learning: pedodontics (pediatric dentistry), dental materials, dental anatomy, endodontics, operative and prosthodontics. Harrop brought in many practising dentists to teach part-time in the clinic, but says now: “They knew a great deal about operative procedures, but most required a refresher about the principles of pedagogy.”

As an educator himself, Harrop used simple education principles: stay open-minded, attract students’ attention, make them laugh and sensitize them to be curious. Likening the learning process to dentistry, he says: “It’s not a matter of pounding things in, but pulling them out.”

Fuelled by his self-professed priorities in life—kindness, co-operation and curiosity—Harrop introduced books of a philosophical or humanist bent to dentistry faculty in the late 1960s. He organized three in-service training programs for faculty to hear presentations by forward-thinking educationalists. Two restorative dentistry faculty members even took further degrees in education on their own time.

Harrop liked to challenge students. Sometimes he would walk into a lecture hall saying:

“Don’t get comfortable. You tell me what the lecture is today.” He never failed anyone and didn’t stress the usual “hullabaloo” about grade-point averages and scores. “We wanted information flowing,” he says, preferring the term “education,” with its Latin root *educare*, meaning “flowing out,” to “teaching.”

Over the years, clinical materials and procedures used by Dentistry students changed. Amalgams went out of style in the 1970s, Harrop recalls, replaced by composites. Similarly, in the early 1970s, instruction about prosthetics gave way to learning about implants.

Dental Hygiene

In the area of dental hygiene, Dentistry offered a diploma program from 1968 to 1986. Doug Yeo, then director of the Faculty’s Department of Public and Community Dental Health, oversaw dental hygiene for close to a decade. Besides giving lectures to dental hygiene and dentistry students, Yeo taught medical students about dentistry challenges and public health’s role in dentistry. He retired four years after receiving the Distinguished Service Award from the Canadian Dental Association in 1983.

By February 1987, the Faculty had gained new computer facilities, which provided more efficiency in accessing patient records and treatment-related research. In 1989, after 24 years at UBC, Harrop took early retirement. (More than 40 years earlier, while an undergrad dental student in Glasgow, Scotland, the Winnipeg native swam for Britain’s 1948 Olympic team and still proudly retains the swim trunks he wore.)

Starting in 1992, any dental hygienists with a diploma could complete their degree through classroom-based instruction at UBC. Fourteen years later, this education was available entirely online for dental hygienists around the world. By 2007, UBC Dentistry offered an entry-to-practice option (the only one in Canada today): the faculty teach all four years of the degree in a mostly campus-based program.

The Next Wave of ‘Revolution’—Technology-Enhanced Self-Directed Learning

Leandra Best, clinical associate professor, clinician educator and associate dean of Academic Affairs, began as a part-time instructor in dentistry in 1999. Having only worked in private practice, she soon discovered how much she loved teaching. Best enjoyed inspiring others while learning new aspects of dentistry: “The university environment is such a great place to continue learning from the questions students ask.”

Also in 1999, the Faculty introduced WebCT (Web Course Tools), an online learning package developed by a UBC computer science faculty member. For the first time, dentistry students could independently access course materials and publish content on their own schedule.

This new technology reinforced the Faculty’s philosophy of self-directed learning, inspired decades earlier by Harrop. At first, Best says, she was skeptical of this approach, which encouraged students, in small groups, to ask themselves and each other questions. “Didn’t they need to be spoon-fed everything



Dr. Leandra Best (3rd R) with students in the Nobel Biocare Oral Health Centre.

in lectures and regurgitate lists of facts when writing exams?” she wondered. Her own dentistry education in Saskatchewan in the 1980s had followed traditional, authoritative standards. “You didn’t question things. You just did as you were instructed.”

But after witnessing its effectiveness with students, Best soon embraced UBC’s problem-based learning (PBL) approach, adopted as pedagogy in 1997. Used then and now, it encourages excellent communication skills (including active listening and asking questions), teamwork, reasoning and problem-solving, self- and peer reflection, and seeking out evidence-based information to solve dilemmas.

Once, when Best admitted that she didn’t know the answer to a question, a student later expressed appreciation for such honesty. “The student told me: ‘That opened up two-way communication, where it was okay to not know all the answers.’”

Beyond the classroom, the Faculty of Dentistry emphasized the application of PBL skills in both on-campus and community clinics with a variety of patient populations, such as seniors and children from low-income families. This method of education continues today.

By 2002, the Faculty created the position of clinician educator for Best and two colleagues. Best was soon teaching in most modules across the four-year undergraduate program. It was around this time, she says, that she noticed students asking good questions and seeking answers to their “why” questions. They learned to explain treatment options and plans, involving patients and obtaining their informed consent for procedures.

In 2006, after about six years of planning, UBC’s current clinic, the Nobel Biocare Oral Health Centre, opened. This facility provided students with expanded clinical space, more opportunities for hands-on learning with diverse clientele, and a computer system with more complex databases for improved information storage and billing systems, more detailed patient health records and better opportunities to adjust the resolution on radiographic images. “We’re so lucky,” Best says. “Almost everything is electronic and state-of-the art.”

From her on-campus office, Best remembers some of the many changes in clinical dental training over the decades:

- Dental bonding – The application of a resin or plastic to a decayed, discoloured or chipped tooth has allowed dentists to do more conservative procedures, such as repair some tooth fractures with bonded composite materials instead of full crowns. Also, bonded sealants help prevent decay of occlusal (chewing or grinding) teeth.
- Caries (cavities) detection – The use of the dental explorer or probe (a sharp instrument used on tooth surfaces to detect caries) is now discouraged since this can disrupt the tooth remineralization process.
- Equipment – Best never trained with a high-speed fibre-optic handpiece (a well-lit dental drill that rotates at up to 450,000 rpm); today, this is a standard instrument for any dentistry student. The rubber dam, an item that isolates teeth during a dental procedure, had been used inconsistently by the profession since its 1860s invention, she says; however, by the 1980s, its use had become mandatory for students.

“The university environment is such a great place to continue learning from the questions students ask.”

– Dr. Leandra Best

TODAY



“We know the architectural elements we need—we’ve done our homework. We just need financial support to build it.”

– Dr. Edward Putnins



FUTURE

GRADUATE SPECIALTY CLINIC UPDATE

A-dec, one of the largest dental equipment makers in the world, won the bid to furnish UBC Dentistry’s new graduate specialty clinic with its 511 series chairs, delivery units, LED dental light system and integrated ancillaries. The equipment will be installed in 12 open and eight closed operatories.

Coincidentally, both A-dec and UBC Dentistry are looking forward from 50th anniversary celebrations this year. According to territory managers Jim Berry and Andrew Benzel, this presents “an exciting opportunity for A-dec to continue to provide innovative solutions that deliver superior value and service to the Faculty.”

Support for the new graduate specialty clinic has been very generous. Various donor recognition levels for naming operatories are still available, as is the prestigious legacy opportunity to name the clinic for a gift of \$1.5 million.

Total cost of renovations: est. \$3,000,000

Funds raised to date: \$540,000

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

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

To learn more about opportunities to support the graduate specialty clinic, contact the UBC Dentistry Development Team at 604-822-5886 or dentistry.development@ubc.ca

Henry Schein Gives Back to the Community Through UBC Dentistry



Expanding access to care for at-risk and underserved populations—this is one of the central tenets of Henry Schein Canada’s corporate social responsibility ethos. Through its social responsibility program Henry Schein Cares, the global dental distributor makes a positive difference in communities it serves by providing financial support to public agencies and charitable organizations that directly address unmet needs of such populations. And, through UBC Dentistry’s community outreach programs, Henry Schein Canada makes a difference in BC Lower Mainland communities.

In November 2013, Henry Schein Cares provided \$5,000 to cover a range of dental services and educational programs for UBC Dentistry’s Adopt a School Program. This supported the installation of a one-chair dental clinic at Florence Nightingale Elementary School in Vancouver’s inner city. The clinic is operated by UBC Dentistry, with licensed dentists in advanced postgraduate training doing rotations to the clinic to provide treatment for school children and their families.

The Calendar of Caring Community Wellness Program is a Henry Schein initiative that donates a portion of revenue from sales of dental office supplies to non-profit organizations that alleviate disparities in oral health care services for the underserved. Henry Schein Canada contributed \$8,000 from catalogue and flyer sales in 2013 to support UBC Dentistry’s community outreach initiatives and has committed additional support through to 2016. The Faculty runs volunteer community dental clinics throughout the year on weekends at locations in Abbotsford, Burnaby, Richmond and Vancouver’s Downtown Eastside, where UBC dentistry and dental hygiene students, together with volunteer dental professionals, provide free dental services to marginalized and at-risk people.

Ergonomics Expertise: UBC DENTISTRY'S GLOBAL REPUTATION

The Aula Parva hall, University of Vilnius, was a fitting venue to feature UBC dentistry professor Dr. Lance Rucker as keynote speaker for the 26th Annual Meeting of the European Society of Dental Ergonomics. Last May, if any echoes from the past favouring the advancement of science and culture were to be heard—Lithuanian writer and professor Martin Smiglecki, *Logica* (1618), and former student and Nobel prize winner Czeslaw Milosz (1980) come to mind—Dr. Rucker might well have been the person to perceive them. Not only is he a world-renowned dental ergonomics expert, but he is also a writer who has authored four Brandon Drake mystery novels and more than 100 magazine stories and articles.

Rucker's keynote talk, "Strategies for Integrating Ergonomics Into Basic Clinical Educational Programs for Dentists, Dental Hygienists and

Assistants," addressed research and educational development work at UBC that has resulted in significant changes to dental curricula in over a dozen dental faculties in North America and Asia. His leadership in this field while at UBC stretches back to pioneering work with the World Health Organization in 1981.

"Based on our integrated clinical ergonomics and use of carefully selected and adjusted surgical magnification from the outset of student clinical education, UBC dentistry and dental hygiene graduates demonstrate significantly reduced risk profiles for work-related musculoskeletal symptoms," Rucker says. He also notes that dental student blogs in Canada and the US frequently mention these aspects of UBC's programs as a significant value-added feature for dental professionals.

Since 2010, when the UBC Clinical Ergonomics Assessment (ClinErgoAssess) format was unveiled at the Clinical Simulation and Ergonomics Section of the American Dental Educators Association Annual Meeting in Washington, DC, UBC has been a model for integrated clinical ergonomics strategies in North American dentistry and dental hygiene programs.

The ClinErgoAssess format brings attention to posture, movement strategies, patient positioning and equipment in order to most consistently and reliably achieve desired treatment end products. It also optimizes the basic tool kits for providing integration of clinical ergonomics into an existing dental undergraduate or graduate curriculum.

In the past four years, UBC collaborations with key dental educational institutions around the world have built upon the UBC Clinical Ergonomics Assessment (ClinErgoAssess) format.

After the ClinErgoAssess presentation at the Japan Dental Ergonomics Association in Fukuoka, Japan, in 2011, many Japanese dental educators began using similar strategies.

And the trend continues. Rucker's presence in Lithuania provided an opportunity for the University of Vilnius dental faculty to hold an all-day workshop for some of their key clinical and preclinical faculty members to learn about integrating clinical ergonomics into their undergraduate and graduate programs.

"I receive requests from interested dental schools and faculties each month, all of which continues to build UBC's global reputation in the field of clinical ergonomics," Rucker says.

IMPROVING DENTAL ERGONOMICS

Your patient is in the chair, but you feel the pain. UBC Dentistry is changing that.

Hunching over like Quasimodo can take its toll, but until recently, dentists didn't know they had a choice.

"Traditionally, pain was considered part and parcel of the profession," says Dr. Lance Rucker, professor in the Faculty of Dentistry and director of Clinical Ergonomics and Simulation. "As a result, three out of five dentists live with pain and end up losing days of practice each year."

North American statistics from 2011 show that 67 percent of dentists and 80 percent of dental hygienists in North America experience musculoskeletal problems, primarily in the neck and back. However, over the past 18 years, there has been a major awakening, says Rucker.

"Clinicians have started to realize that chronic discomfort and injuries are preventable."

And since the 1990s, Rucker—a leading global expert on dental ergonomics education and ergonomics clinical assessment—has been helping to refine UBC curriculum and develop specialized teaching equipment.

"We've heard from many of our students that one of the reasons they've decided to come to UBC is for the integrated clinical ergonomics," says Rucker. "The word on the street is that our graduates do not undergo the same wear and tear as graduates from other universities."

Indeed, a 2001 BC Workers Compensation Board survey showed that UBC-trained dentists and dental hygienists—about half of those working in the province—were statistically less likely to suffer low back pain.

Rucker explains that, from the outset, UBC students develop muscle memory for working in balance—rather than contorting their bodies—while wielding the required instruments and accessing the necessary areas to operate in the patient's mouth.



Students also learn how to optimally adjust equipment, from tilting the patient's headrest to controlling the angle of the operatory light.

"Although most modern dental equipment is designed with basic ergonomics in mind, I always tell students, if the setting isn't working for you, then you're working for the setting," says Rucker, who also specializes in operatory design concepts.

He took part in a recent World Health Organization initiative to provide enhanced simulation training for oral health care workers in Thailand and elsewhere in Southeast Asia.

And over the past eight years, he has consulted on the design and construction of many new educational and private clinic facilities in North America, including Jamaica's first oral health training facility in Kingston, which opened for patient care in September 2010.

To further spread the ergonomics message, Rucker worked with long-time research collaborator Dr. Michael Belenky, the recently deceased former professor at the University of Maryland's Baltimore Dental School, to produce an online manual for clinical ergonomics assessments and tools.

Working with oral health professionals throughout North America, Rucker provides ergonomic practice assessment that first identifies the factors that contribute to the ergonomics risk profile of the clinician. He then provides practical solutions to prevent further musculoskeletal injuries and to reduce risk factors linked with musculoskeletal symptoms.

"Within four to six weeks after a few retraining sessions, most motivated clinicians can re-educate their muscles to operate in balance as a matter of habit," says Rucker.

"Improving Dental Ergonomics" by Lorraine Chan, reprinted with permission from UBC Public Affairs; published in *UBC Reports*, April 6, 2011.

Students are Taught to Always Check Five Key Factors for Ergonomic Dentistry:

The clinician's seat is stable and at the correct height for balance.

The patient's oral cavity should be at the clinician's heart height and centred in front of the clinician.

The patient's headrest must be adjusted so that the patient's maxillary plane (upper jaw) is vertically positioned for best access.

There is clearance around the supine patient's head to allow unimpeded operator access from the 10 o'clock position to the 2 o'clock position.

The overhead operating light beam is within 15 degrees of the clinician's eyeline.

Retraining Muscle Memory

Burnaby, BC, dentist Dr. PJ Murphy, 48, credits Prof. Lance Rucker with helping him return to a full-time practice, a goal he had been struggling with for a number of years following a road accident in 1995.

While riding his bike, Murphy was struck by a car, leaving him with broken ribs, a broken leg and soft tissue damage in his back.

"After a long time of rehab," recalls Murphy, "and trying all sorts of therapies, everything from massage to chiropractors, I could only put in about four hours a day before the pain got to be too much."

In 1999, Murphy heard about Rucker and arranged for a clinical assessment.

"Before that I had never heard of dental ergonomics," says Murphy, who holds a doctor of dental surgery degree from Dalhousie University.

"But Lance transformed my practise. He did me a huge favour," says Murphy.

Murphy learned techniques to retrain his muscles for balance and posture along with basic techniques to ensure correct operatory set-up.

"Within a few months I went from part-time to full-time."



Dr. Lance Rucker discusses ergonomics with a student.

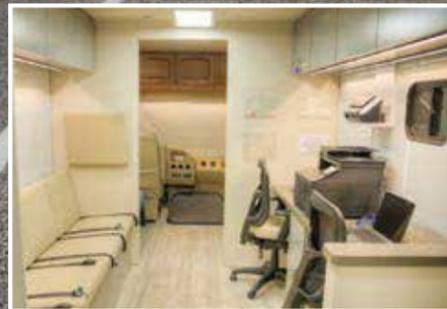


Down the Road in UBC'S MOBILE COMMUNITY DENTAL CLINIC

“Being a great dental school means stretching beyond the laboratory and classroom.”

— UBC Dentistry Strategic Plan

In the mid-1960s, the Faculty of Dentistry wheeled a trailer onto campus to serve as UBC's first dental clinic for treating patients. Now, 50 years later, the Faculty is gearing up to move another kind of clinic on wheels: a mobile community dental clinic.



To learn more about opportunities to support the UBC Dentistry mobile community dental clinic, contact the UBC Dentistry Development Team at 604-822-5886 or dentistry.development@ubc.ca

What is a mobile community dental clinic?

It's a recreational vehicle custom fitted with a one- or two-chair dental operator. It also has all the necessary equipment and supplies on board to support dentists and dental hygienists in delivering a broad variety of oral health care to patients. It is, in fact, a portable dental office.

What are the goals of the mobile community dental clinic?

The mobile clinic will increase the accessibility of oral health care for marginalized patients throughout the Lower Mainland and the across the province.

Access to dental care and treatment is a challenge for many people. Some have extensive mobility issues, such as the homebound disabled and elderly, and others cannot afford to receive care in a private dental office. A mobile clinic brings care directly to these individuals.

Along with delivering treatment, a mobile dental clinic promotes oral health care in the communities visited. It can also act as a supplemental resource for UBC's existing outreach clinics.

Who will provide the oral health care services in a mobile community dental clinic?

Dental and dental hygiene students, as well as graduate students in clinical specialty programs, will provide curriculum-based oral health care services under the supervision of faculty members. For services under the aegis of the Volunteer Community Clinic Program, volunteer community dentists will provide oversight for the students. Dental residents in UBC's postgraduate training programs will also perform rotations in the mobile clinic.

How is the mobile community dental clinic funded?

No university or government funding exists to support such an initiative at UBC. Other dental schools across Canada that operate similar mobile clinics are successful doing so with private funding.

What is the capital cost?

The capital cost to purchase and outfit UBC's mobile community dental clinic is estimated at \$500,000.

A one-time clinical start-up cost for handpieces, instruments, cassettes, dental materials and sundries is estimated at \$60,000.

What about the operational budget?

A two-year operational budget (e.g., insurance, vehicle and equipment maintenance, consumables) is estimated at \$250,000.

Are there any revenue opportunities to sustain the initiative in the future?

While generous donor support will ensure the operational success of the community mobile dental clinic, supplemental revenue streams from contract-for-service models, such as private organizations hiring the mobile clinic to provide dental services to employees in remote areas, are anticipated.

Have any donors stepped forward to support the mobile community dental clinic?

Yes, generous gifts have already been received.

The mobile community dental clinic initiative was launched at the Chinese Canadian Dental Society of BC (CCDSBC) 26th Annual Gala Extravaganza on May 17, 2014. Through live donations and an auction, \$126,000—just over a quarter of the capital cost—was raised for the purchase of the mobile clinic. The CCDSBC is committed to raising more funds throughout the year.

One generous donor that evening, Dr. Arjang Nowtash, president of Sinclair Dental, exemplifies the spirit of giving to the initiative:

“The mobile community clinic will play a critical role in serving underserved and remote areas where access to dental services is limited. As a national dental supply company, we wanted to fulfill our social responsibility in contributing to this essential project.”

For many years the dental supplier has given financial support to UBC Dentistry through the Sinclair Travel Fellowship Program and as a sponsor of its annual Research Day. Sinclair Dental is also one of five exclusive sponsors of Dentistry's 50th anniversary.

How can I support the mobile community dental clinic?

You can support UBC's mobile community dental clinic by volunteering as a dental professional or through a financial donation. The rewards of providing oral health care service to underserved people, as well as educational and learning opportunities for our students, are immeasurable.

Your gift will be acknowledged in a meaningful way. Various donor recognition levels and naming opportunities are available. Charitable receipts for tax purposes are issued for all donations.

To learn more about supporting the UBC Dentistry mobile community dental clinic, contact the UBC Dentistry Development Team at 604-822-5886 or dentistry.development@ubc.ca

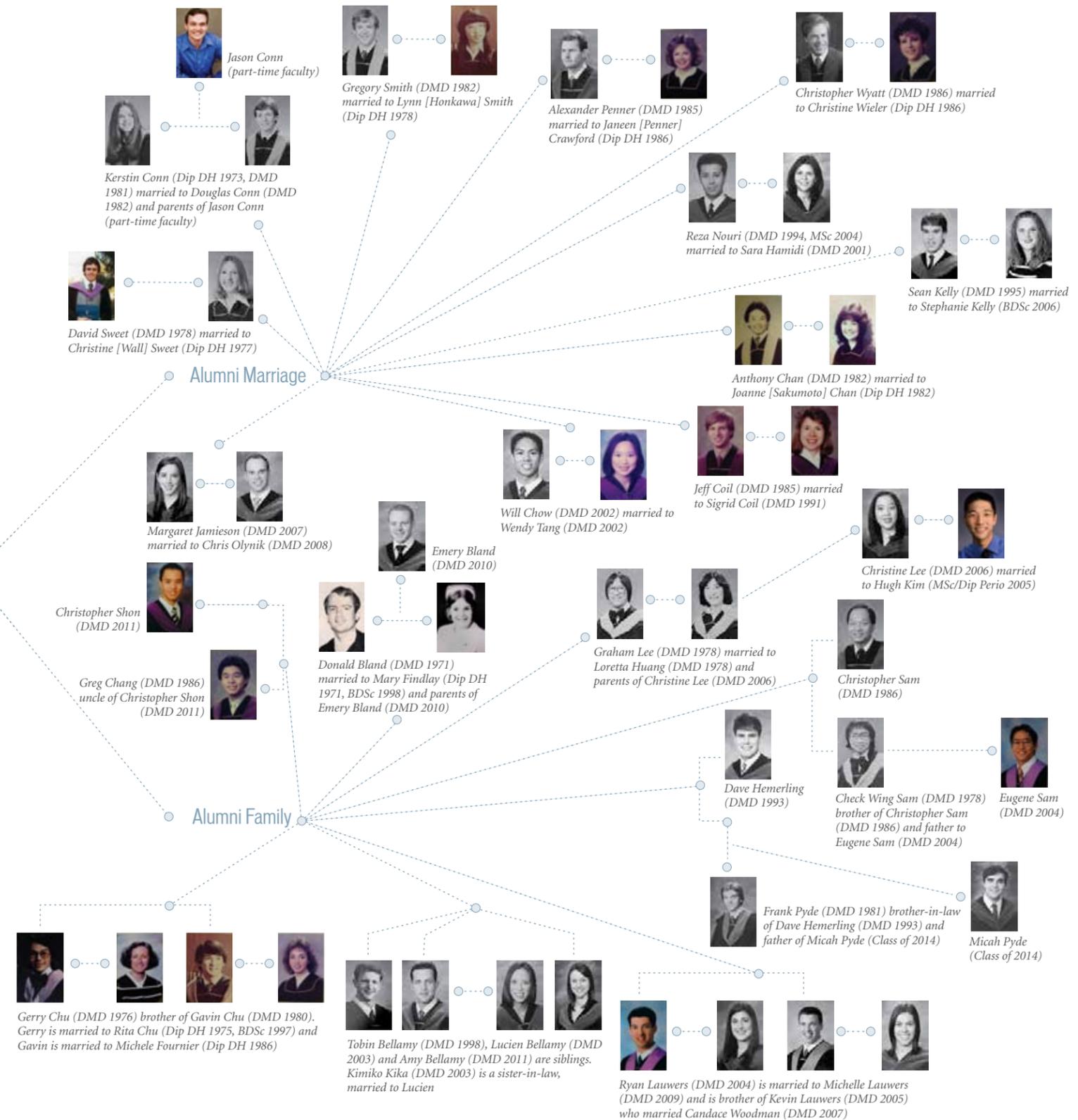
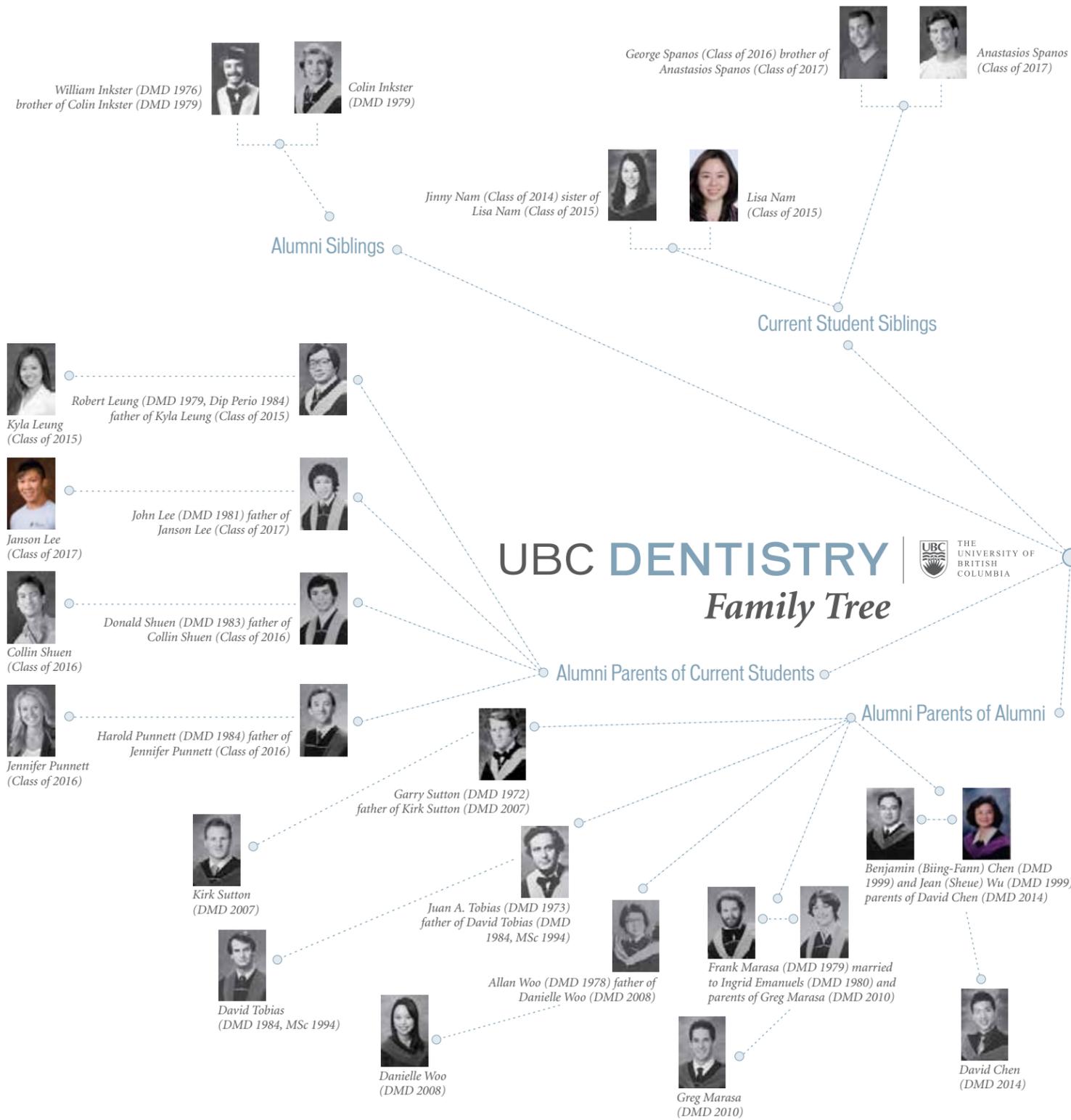
An Established Direction Leads the Way

“The Faculty of Dentistry at UBC has a very successful community outreach program—yet, we can do more.”
— Dr. Charles Shuler, Professor and Dean, UBC Dentistry

UBC Dentistry is committed to providing sustainable oral health care and education to at-risk individuals in local, provincial and international communities. Its community outreach programs focus on acute needs, population-health research and co-development strategies with community partners to prevent disease and promote oral health and wellness.

Provincially, community outreach programs focus on a wide patient demographic—children, seniors and marginalized communities such as new immigrants, the working poor and people with medical, abuse/neglect or substance use challenges. We also have established partnerships with First Nation communities in Chemainus, Penelakut Island, Anaham and Haida Gwaii.

For students, the programs are a valuable opportunity for education and clinical skill development—and a chance to grow their own sense of social responsibility as oral health care professionals.



We are looking for alumni who are related to alumni. Send a note to alumni@dentistry.ubc.ca describing the relationship and giving consent for the school photos and names to be included in the next version of the UBC Dentistry family tree.

The UBC Dentistry family tree will grow. We could not fit in everyone we know who is related. Look for more branches in future issues of Impressions magazine. Those depicted in this family tree provided consent for their school photo and name to be printed.

Uncovering Jesse's Smile



The Community Access Fund at UBC Dentistry provides comprehensive dental treatment to patients who cannot afford to pay for it. Qualifying patients are able to receive the treatment they need at no charge, while UBC Dentistry students have the educational advantage of being able to follow through on the full treatment they have identified for these patients.

One such patient, Jesse,* was self-conscious about her smile due to two maxillary front teeth missing from her acrylic partial denture. She had become accustomed to covering her mouth whenever she talked or smiled. Having recently immigrated to Canada, the cost of the suggested treatment plan was beyond her limited income, which went to support her family in her country of origin. Lauren Currie, then a fourth-year dentistry student who

graduated this past May, was able to provide the treatment† and give Jesse back her smile.

“Working with Jesse has been an incredibly rewarding experience for me. Not only have I learned a great deal from the clinical aspects of the case, but I have also taken away so much more about what it means to give back to the community and support those in need,” Lauren says.

Thanks to generous support to UBC Dentistry’s Community Access Fund, patients like Jesse, who would otherwise not be able to afford basic rehabilitative care, can receive the oral health care they need. This results in an added bonus of improved quality of life.

*pseudonym

†maxillary and mandibular partial removable dental prostheses

➔ To learn more about the Community Access Fund or to make a donation, visit www.dentistry.ubc.ca/go/caf

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.

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.

To learn more, contact Jane Merling, director of Development & Alumni Affairs, at 604-822-5886 or merling@dentistry.ubc.ca
UBC Charitable Business Number 10816 1779 RR0001

Call for Patients: Introduction to Prosthodontics Course

Do you know someone who requires complete dentures but cannot afford full fees?

UBC Dentistry may be able to help.

Patients referred to our Introduction to Prosthodontics (IPROS) course are provided with new complete upper and lower dentures for only \$545 (including lab fee).

In order to participate, patients must be:

- Missing all their teeth, or require extraction of remaining teeth prior to the start of the course.
- Available for a no-charge screening appointment at UBC between now and December 1, 2014.
- Available to attend treatment appointments at UBC on Monday afternoons from January 12 to May 4, 2015, inclusive.
- Able to pay the \$545 fee, either on their own or with assistance from their insurance provider or a government plan (UBC will complete a predetermination of benefits for eligible patients).

Treatment commences January 2015. Screening begins now!

Thank you for helping us match patients in need of care with dental students in need of denture-fabrication and patient-care experience.

The IPROS Course: A Grand Slam Win for John's Smile



The year 1998 marked the decline of John Nijjar’s smile. That is when he started losing his back teeth. Soon after, his front teeth started to deteriorate, and by 2006 all his teeth were gone. John became a recluse: he would not go out or see any friends, and he stopped playing tennis—his passion.

Through word of mouth, John learned he could get full dentures at UBC Dentistry through the Introduction to Prosthodontics course. Pleased with the dentures—and especially the work performed by students—his life has totally changed. “Once I got my teeth, I started going everywhere!” he says. “I couldn’t be happier now.” You can find him on the tennis court, beaming as he rallies a ball with an opponent.

See John’s testimonial at www.dentistry.ubc.ca/go/ipros_testimonial

➔ For more information or to refer a patient to the IPROS course, contact Evangeline Jonasson at the UBC Nobel Biocare Oral Health Centre at 604-822-5668 or ejonasson@dentistry.ubc.ca. Ask for the patient FAQ sheet to be emailed—it has all the necessary information about dentures made in the UBC IPROS course. Or, visit www.dentistry.ubc.ca/treatment/ipros.asp

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Dr. William McDonald
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UBC Dental Hygiene Alumni



A Note From the Co-Chairs of Dentistry's 50th Anniversary Committee

What a thrill and pleasure to be part of UBC Dentistry's 50th anniversary celebrations. We were honoured to officially kick off this memorable milestone year on January 28 at the 7th Annual UBC Dentistry Research Day. It was a chance to give students, faculty, staff and special-guest alumni speakers an overview of all the exciting activities that would be taking place this year. It was also a chance to recognize our five 50th anniversary sponsors: Scotiabank, ROI Corporation, Sinclair Dental, MNP LLP and Madaisky & Company.

The Pacific Dental Conference is always a wonderful opportunity for alumni and friends to reconnect. The UBC Dentistry Alumni Lounge on the exhibit floor provided a unique space for alumni and students to gather, take a snapshot in the photo booth and devour a delicious 50th anniversary commemorative chocolate.

At the ever-growing alumni reception, everyone received a special 50th anniversary pin—a small token to recognize the incredible accomplishments of the school and our profession, not only the past, but what is to come in the future.

Our signature event will take place on Saturday, September 20, 2014. So mark your calendars now! During the day, the Continuing Dental Education 50th Anniversary Symposium will present five world-renowned speakers on current topics in dentistry. In the evening, it's Fifty Fabulous Years—The Bash! at the Commodore Ballroom. This will be a party not to be missed! The Faculty/Alumni Band will entertain us while we enjoy our food and drink. We'll laugh uproariously at a performance by the Vancouver Theatre Sports League. And alternative rock band Odds will get us up and keep us dancing into the later party hours.

We encourage you to enjoy the upcoming activities, visit the school and reconnect. This is not just a celebration of our past, but a celebration of our future!

— Brenda Currie, Dip DH 1976, BDS 2004, MSc 2007 and Ash Varma, DMD 1993

50 Years of UBC Dentistry: Well Celebrated at PDC

As anticipation heightens for Fifty Fabulous Years—The Bash! in September, here is a look back at some of the activities that celebrated the Faculty during the Pacific Dental Conference in March.

UBC Speaker Series

The Pacific Dental Conference (PDC) presented a UBC Speaker Series as part of its scientific program. The following notable UBC alumni and faculty presented: Martin Aidelbaum, head of Oral and Maxillofacial Surgery; Fernanda Almeida, assistant professor; Tobin Bellamy DMD 1998; Caroline Cesar DMD 1989; Brian Chanpong, course director for "Local Anaesthesia and Minimal Sedation"; Jason Chen DMD 2008; Wilson J. Kwong DMD 1989; Sonia Leziy Dip Perio 1993; Robert Marciniak DMD 2006; Brahm Miller, clinical assistant professor; Samson Ng DMD 2002, MSc 2004; Mark Olesen DMD 1988; Mark Parhar DMD 1997, MSc 2012; Warren Roberts DMD 1977; Charles Shuler, professor and dean; Sharma K. Sinanan DMD 1972; David Sweet OC DMD 1978; Henry Tom DMD 1982; Glenn van As DMD 1987; and Michele Williams DMD 1988, clinical professor.

Milestone Class Reunions

The classes of 1984, 1989, 1994, 1999 and 2004 held reunions during the PDC. For post-reunion notes, see "Class Notes and Events" starting on page 37 in this issue of Impressions.

14th Annual Toothfairy Gala & BCDA Awards

The spotlight shone again for UBC Dentistry's 50th anniversary during the BC Dental Association's annual gala. In the spirit of Nancy Sinatra, the BCDA Toothfairy donned white go-go boots and beckoned attendees into an evening filled with good cheer.

And while Nancy's boots were "made for walkin'," the Toothfairy's were made for giving: Through the cake auction, silent auction and direct donations, the gala raised \$105,000 for UBC Dentistry's community outreach programs.

Now that's a generous golden anniversary celebration!



Alumni Lounge and Annual Reception

The UBC Dentistry lounge on the exhibit floor was an exceptional hive of activity this year. The booth was decked out in "groovy" 1960s style, attracting alumni and friends to mix and mingle. Visitors could dress up in fun costumes and have their pictures taken in a photo booth. Check out the slide show of these pictures and download your favourites at www.dentistry.ubc.ca/go/pdc2014photobooth



This year's Annual Alumni Reception was attended by over 600 alumni and friends. Along with the great food and comradeship, alumni attendees received a special edition 50th anniversary pin and viewed photos from past years of Faculty life in a walk-around gallery.



On the last day of the PDC trade show there was a flash mob of UBC students led by second-year dental student Liora Berant and third-year dental student Allison Nicholls. They enthralled the crowd on the exhibit floor with their energetic choreography, which included a brief interlude of smooth moves by Andrea Esteves, associate dean of Clinical Affairs, and N. Dorin Ruse, professor and chair, Biomaterials. Check out the video at <http://bit.ly/1g2FpPU>



Congratulations

Scotiabank congratulates the **Faculty of Dentistry at University of British Columbia** on their 50th anniversary.

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MNP is very proud to sponsor the 50th anniversary of the UBC Faculty of Dentistry. We are honoured to work alongside innovators who are changing the face of their industry, advocating patient care, fostering research and providing ongoing education.

To find out more, contact:

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E: calvin.carpenter@mnp.ca

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UBC DENTISTRY IS 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.

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



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Blue Spotlight on a Stealthy Killer

Nearly 10 years ago, dental assistant Lydia Gnoato Chong had a brush with oral cancer, often referred to as the “silent killer.” Chong noticed a small sore on her tongue, which, she recalls, “would get better, then would reappear, each time bothering me longer and longer as time went by.” It was a year before Chong’s boss convinced her to see an oral surgeon. A biopsy revealed the lesion was an early cancer.

Like most cancers, early detection and intervention saves lives, but lesions can be difficult to detect, even for health care professionals, and warning signs of oral cancer are often caught far too late. More than 300,000 new cases of oral cancer are reported each year worldwide, with half of the individuals dying of the disease. In Canada over 3,200 people are diagnosed each year with oral cancer, with 50 percent dying within five years.

Thanks to efforts by UBC’s Dr. Catherine Poh, however, oral cancer symptoms can now be identified and treated more quickly. Poh, an associate professor in the Faculty of Dentistry and clinician scientist at the BC Cancer Agency Research Centre, has developed a screening protocol using a simple hand-held blue-light device.

This device uses a technology called fluorescence visualization, which makes healthy tissues appear fluorescent, while potentially malignant lesions appear dark. Dentists can use this device to catch malignant lesions that might otherwise be missed in a routine checkup.

Support Research at **UBC Dentistry** to increase the survival rate.

Over 3,200 Canadians are diagnosed each year with oral cancer.
50% will die within 5 years

DONATE www.dentistry.ubc.ca/go/ocfund

In collaboration with Genome Canada, there are funding opportunities to assist in the support of Dr. Catherine Poh’s vital research. To be considered, Poh and her team must raise a portion of matching funds. Find out more about this and her new test targeting genes at www.dentistry.ubc.ca/go/ocfund

No More ‘Wait and See’

Not only is the tool an important new way for professionals to spot possible cancers, but it can also enable dental and medical practitioners to provide information immediately to worried patients. “Doctors will have a better indication of which patients require immediate treatment, and can give peace of mind to low-risk patients,” says Poh.

Chong, who doesn’t drink or smoke and has no family history of oral cancer, said her time waiting for biopsy results was nearly unbearable. “You know the worst-case scenario, so every minute adds to the anxiety,” she says.

The traditional “wait and see” approach involves having all patients with lesions return for checkups every six months. “Patients are told they may be living with cancer but can’t do anything about it,” says Poh.

In addition to creating stress in patients, this approach can miss the 15 percent of patients whose lesions progress to cancer in three years. To address this, Poh is leading a Genome BC-funded project to develop a new test targeting a set of genes associated with high-risk cancer progression.

Blue Spotlight on Surgery

For those requiring surgery, blue-light technology could give surgeons a better indication of the extent of tissue removal needed for the lesion. Poh is also one of the lead investigators of a national clinical trial funded by the Terry Fox Research Institute to assess the effectiveness of integrating blue-light technology into oral cancer surgery.

Chong, who has been cancer-free since her surgery where Poh used blue-light technology to assist with malignant tissue removal, says the experience has made her more vigilant with her clients. “I’m a dental assistant and I should have known better,” says Chong, “but I kept putting off getting it checked. It’s just stress, I thought.”

But, she asserts, “Time isn’t on your side when it comes to oral cancer.”



UBC
DENTISTRY
ALUMNI

CLASS NOTES AND EVENTS

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

1970s

DMD 1970 REUNION

The 1970 DMD class will celebrate their 45-year reunion in 2015. See page 41 for more information.

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 to 7, 2014, weekend. To confirm attendance, email Randy at docjr@shaw.ca

DMD 1975 REUNION

The 1975 DMD class will celebrate their 40-year reunion in 2015. See page 41 for more information.

1980s

DMD 1980 REUNION

The 1980 DMD class will celebrate their 35-year reunion in 2015. See page 41 for more information.

PLANNING A REUNION?

For ideas, contact Alumni Engagement at alumni@dentistry.ubc.ca



Ian Leitch
DMD 1983

Ian and Evan Wiens DMD 2012 are now partners in a Kelowna practice. The two have set up Okanagan Dentistry on Hardy Street. *The Daily Courier* (Vernon) writes that Leitch was looking for a young and ambitious partner to join his practice, and Evan was the natural choice.



Jim Richardson
Bhasker Thakore
David Tobias
DMD 1984

Classmates from 1984 enjoy a post-1984-class-reunion celebration at a hockey game at Rogers Arena on March 3, 2014. Pictured here from left to right: Emily (David’s daughter), David, Bhasker and Jim. The DMD Class of 1984 celebrated their 30-year reunion at Jules Bistro during the Pacific Dental Conference.

DMD 1985 REUNION

The 1985 DMD class will celebrate their 30-year reunion in 2015. See page 41 for more information.



Brian Sully-Daniels
DMD 1989

Members of the DMD Class of 1989 celebrated 25 years since graduating. The reunion dinner was held at Blue Water Café in March during the Pacific Dental Conference.

1990s

DMD 1990 REUNION

The 1990 DMD class will celebrate their 25-year reunion in 2015. See page 41 for more information.



Rob Armstrong
Reza Nouri
Cheryl Tuira
DMD 1994

It is hard to believe 20 years has passed since graduation for the DMD Class of 1994. Almost as many classmates (19) enjoyed a celebratory reunion dinner at Market by Jean-George, Shangri-La Hotel, this past spring during the Pacific Dental Conference.

DMD 1995 REUNION

The 1995 DMD class will celebrate their 20-year reunion in 2015. See page 41 for more information.



Renate Simmons
DMD 1999

For the DMD Class of 1999, the lucky number was 13! Check out this photo of the 13 classmates who met for their 15-year reunion dinner at Blue Water Café last spring during the Pacific Dental Conference.

2000s

DMD 2000 REUNION

The 2000 DMD class will celebrate their 15-year reunion in 2015. See page 41 for more information.



Cheryl Wu
BDS Sc 2003

Cheryl won the 2014 Barbara J. Heisterman Award from the British Columbia Dental Hygienists' Association for outstanding community service. Cheryl runs her private dental hygiene practice in Victoria, BC. Since graduation, she has given back to the community in many ways. Most notably, she has worked extensively with anxious dental patients, people with mental and/or physical disabilities and people with HIV/AIDS. Cheryl is known for providing care to patients in their homes, even in their beds, when these patients became too ill to come see her. She volunteers for the Victoria Burn Survivor Society, and is on the board of governors for the Elizabeth Buckley School for children with auditory dysfunction and physical limitations. In 2012 Cheryl organized a team of oral health professionals to support a new national dental hygiene initiative called "Gift from the Heart," which is now an annual event. Together they provided care free of charge to 23 financially disadvantaged clients.



Nav Mann
DMD 2004

Ten-year reunions are a special milestone, and 33 DMD Class of 2004 members celebrated theirs in style at Steamworks Brewery during the Pacific Dental Conference this past spring.

DMD 2005 REUNION

The 2005 DMD class will celebrate their 10-year reunion in 2015. See page 41 for more information.



Candace Woodman
DMD 2007

Candace received a British Columbia Dental Association Merit Award at the BCDA Toothfairy Gala last March. Candace is pictured on the right, with Patty Scrase, senior manager of professional banking at Scotiabank, who received the President's Award from the BCDA.

2010s

DMD 2010 REUNION

The 2010 DMD class will celebrate their 5-year reunion in 2015. See page 41 for more information.



Diana Younan
DMD 2010

Members of the DMD Class of 2010 celebrated together at Diana's wedding on August 31, 2013. Pictured from left to right: Neda Rafati, Salimah Jawani, Erin Gray, Diana Younan, Jordan Gerster and Pariya Tabarsi.



Oxana Korj
DMD 2011

In a recent note to the dean, Dr. Charles Shuler, Oxana writes that she is well in Washington, DC, and enjoying her oral and maxillofacial surgery residency at Medstar Washington Hospital Center. In her words: "Time really flies though, and it is hard to believe that it's been almost three years since my time at UBC. I sure miss it and am hoping to move back once my residency is over [in 2016]."



Paul Mikhail
DMD 2012

Paul and his wife Teresa have a baby daughter, Anabelle, born in March 2014. Paul is currently stationed in Ottawa and anticipates a move soon to Canadian Forces Base (CFB) Shilo in southwestern Manitoba.



Evan Wiens
DMD 2012

Evan and Ian Leitch DMD 1983 are now partners in a Kelowna practice. The two have set up Okanagan Dentistry on Hardy Street. Evan, quoted in *The Daily Courier* (Vernon) says, "To join Ian is an amazing opportunity, because he's an excellent mentor and he practices dentistry with great integrity."



Ian Thornton
MSc/Dip Pros 2014

In December, Ian, then a Canadian Forces graduate student, was promoted in rank from captain to major. Read more about Ian's promotion in this issue of *Impressions* on page 9.

In Memoriam



Nancy Scott
DMD 1980

Nancy passed away on Wednesday, June 4, 2014. She was a friend, professor, colleague and UBC alumna. Nancy started teaching at UBC the same year she graduated. She was appointed clinical assistant professor in 2010 and also served as clinical advisor, faculty advisor and lecturer in operative dentistry.

Nancy was an outstanding clinical educator. She received teaching awards in 2006 and 2014, and in 2013 she earned a Certificate on Teaching and Learning in Higher Education. She was a board member of the British Columbia Dental Association's Women in Dentistry Mentorship Program, and with the College of Dental Surgeons of BC, helped practising clinicians improve their skills. Her passion for teaching was driven by a desire to help students achieve confidence and skill, especially when faced with real difficulties in patient management and clinical procedures. Nancy will be greatly missed by all who had the pleasure of knowing her.

The Dr. Nancy Scott Memorial Award, established by UBC Dentistry, honours her memory as a passionate and dedicated teaching professional. If you would like to make a gift to help continue Nancy's passion and commitment to dental education and patient care, please visit www.memorial.supporting.ubc.ca/dr-nancy-scott

Rhonda L. Altom
DMD 1985

Rhonda passed away unexpectedly on July 30, 2012. Rhonda was a loving and devoted mother, sister, daughter and friend, who was intelligent and had a generous sense of humour, adventure and empathy. Her passing leaves a deep emptiness in those she left behind, and she will be missed tremendously.

Rhonda studied dentistry and surgery at the universities of Washington, British Columbia and Minnesota, becoming an oral and maxillofacial surgeon. In 2008 she moved to Seattle after practising in Minnesota for many years.

Almost Alumni



Natalie Chaudhary
Danielle Coulson
DMD 2014

In April 2014, the Sinclair Travel Fellowship Program, which supports the UBC Dentistry fourth-year travel elective, gave then DMD 2014 candidates Danielle Coulson and Natalie Chaudhary the opportunity to travel to Peru. Danielle and Natalie joined Dentistry professor Dr. Bill Brymer and volunteer students and dentists from the University of Southern California's Faculty of Dentistry, in collaboration with the not-for-profit organization Ayuda Inc. The dental team stayed in Cusco and travelled to the nearby town of Anta each morning.

Danielle writes that "the level of appreciation from the patients I treated made this a rewarding experience. I was able to speak with patients in Spanish and could communicate with many of them further. My time in Anta provided me with insight to a culture and way of life that was unfamiliar to me." She provided treatments ranging from stainless steel crowns and extractions for children, to cleanings and restorative work for adult patients.

For Natalie, volunteering has always brought her great satisfaction. "I have been on local

dental mission trips, but have always wanted the opportunity to practise volunteer dentistry in an international setting." In her report, Natalie notes the well-organized clinic and its scope: "There were many different stations, including screening, radiology, 15 operatories and two oral surgery chairs. Students had the opportunity to rotate through these stations to get a wide range of experience in diagnosis, radiology, operative dentistry and oral surgery."



Tarndee Dhillon
Lindsay Flumerfelt
Phil Hou
DMD 2014

Last April, Tarndee, Lindsay and Phil had the privilege of going to Kon Tum, Vietnam, on an elective program partnered with the East Meets West Dental Program, a non-governmental organization based in Oakland, CA. Several UBC alumni also travelled with the program. Kon Tum is located in the central highlands of Vietnam, near the borders with Laos and Cambodia. Phil says that it was a great opportunity to give back in a really fun way and they learned a lot, both clinically and culturally.

KEEP IN TOUCH

www.dentistry.ubc.ca/alumni



Priya Kandola
Aleem Kara
DMD 2014

The Henry Schein (BC) International Dental Outreach Fund gave Priya and Aleem the opportunity to travel to Vietnam and Cambodia in April 2014 with their mentor, Dentistry clinical associate professor Dr. Anthony McCullagh. In Ho Chi Minh City, Vietnam, morning rotations consisted of observing oral surgery at the dental university and the cancer hospital. In the afternoons, the three provided dental work to HIV-positive children from an orphanage, many of them needing to have several procedures done. Aleem notes they learned from the local dentist that the goal in treating pediatric patients is to try and save as many teeth as possible.

In Siem Reap, Cambodia, their rotations were full days at the dental clinic at Angkor Hospital for Children. Due to poor dental awareness and lack of previous dental care, many of the children were scared and in distress from living with constant pain. "Providing a variety of treatment to these children was a very valuable educational experience, and it helped me develop my skills in different aspects of pediatric dentistry," Priya says. "I will take everything that I learned from this elective with me into my future dental practice. And this experience has inspired me to continue to reach out to those in need in the future."

Aleem says he was "able to increase his efficiency in treating pediatric patients and it was heartwarming to know these children now have an improved quality of life."

Both Priya and Aleem are thankful for the experience provided by Henry Schein.

Recent Events



Adventure and Learn Hawaii 2014

In February, alumni gathered on the beach in Hawaii to earn continuing education credits in the sun and under the banner of Dentistry's 50th anniversary.



Alumni vs. Students Soccer Game

On May 4, 2014, alumni, friends and students witnessed a spring soccer game between Dentistry alumni and students—World Cup hopefuls all! A wonderful time was had by all who participated in the event sponsored by PDG Pediatric Dental Group.



Alumni Reception at the Ontario Dental Conference

Alumni and friends joined dean of Dentistry Dr. Charles Shuler at the Real Sports Bar and Grill following the Ontario Dental Conference on May 9, 2014, for chicken wings and refreshments, compliments of Dentsply Canada. Congratulations to Kristina Pahuta DMD 2011, who won the door prize, a special 50th anniversary blanket from UBC Dentistry and a wine basket from Dentsply. Kristina is seen in the photo with the dean. For next year's event date and more information, contact alumni@dentistry.ubc.ca

Events for Students and Alumni

VOLUNTEER COMMUNITY CLINICS – UPCOMING

H'ulh-etun Health Society (Malahat)
July 17 - 20, 2014

Tl'etinqox-t'in Health Services (Anaham)
July 24 - 27, 2014

Vancouver Native Health Society (Vancouver)
August 23, 2014

Richmond General Hospital (Richmond)
September 6, 2014

Open Wide Community Clinic Day, CDI College (Burnaby)
September 13, 2014

Ray-Cam Co-operative Centre (Vancouver)
September 13, 2014

Vancouver Native Health Society (Vancouver)
September 27, 2014

Abbotsford Food Bank (Abbotsford)
October 4, 2014

Vancouver Native Health Society (Vancouver)
October 25, 2014

Steveston Buddhist Temple (Richmond)
November 8, 2014

BC Children's Hospital, The Dental Mission Project (Vancouver)
November 15, 2014

Vancouver Native Health Society (Vancouver)
November 15, 2014

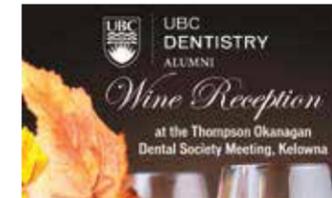
Abbotsford Food Bank (Abbotsford)
November 22, 2014

Volunteer supervising dentists and dental hygienists can get updates at www.dentistry.ubc.ca/cvcp

SHARE

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

More Events for Alumni



ALUMNI WINE RECEPTION AT THE TODS MEETING, KELOWNA

Friday, October 24, 2014

Join Dr. Charles Shuler, dean of UBC Dentistry, and fellow Okanagan alumni for a glass of wine, hors d'oeuvres, cheese and conversation following the 2014 Thompson Okanagan Dental Society (TODS) annual meeting. Conference registration is not required to attend the reception. For conference registration, go to www.todsmeeting.com. For information about the reception, 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



ANNUAL ALUMNI RECEPTION AT THE PACIFIC DENTAL CONFERENCE 2015

Friday, March 6, 2015 · 6 - 8 pm

West Ballroom Foyer, Vancouver Convention and Exhibition Centre

Commemorative anniversary class photos to be taken of: 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005, 2010 and 2014.

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

UPCOMING REUNIONS IN 2015

- DMD 1970 45-Year Reunion
- DMD 1975 40-Year Reunion
- DMD 1980 35-Year Reunion
- DMD 1985 30-Year Reunion
- DMD 1990 25-Year Reunion
- DMD 1995 20-Year Reunion
- DMD 2000 15-Year Reunion
- DMD 2005 10-Year Reunion
- DMD 2010 5-Year Reunion
- DMD 2014 1-Year Reunion

To find out about reunion leaders and to get updates for all reunion plans, visit www.dentistry.ubc.ca/reunion

Planning a reunion?

For great ideas about reunion dinners, themes, locations and class gifts, contact Rosemary Casson, manager, Alumni Engagement, at 604-822-6751 or alumni@dentistry.ubc.ca



YEARBOOKS FOUND!

During a frantic bout of spring cleaning, a number of first-edition yearbooks were found. We have yearbooks for 1978, 1981 through 1983, 1997, 1999 and 2004 through 2013. If you were at UBC Dentistry in any of these years and would like a copy for posterity, get in touch with UBC Dentistry's alumni office at alumni@dentistry.ubc.ca

Stay in Touch

The alumni office 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 Rosemary Casson, manager, Alumni Engagement, at 604-822-6751 or alumni@dentistry.ubc.ca

Stay connected to more than 2,600 alumni. Share your news, thoughts or comments. Visit www.dentistry.ubc.ca/alumni

COMMUNITY PARTNERS



ALUMNI PARTNERS



MY PRACTICE MATTERS
A DIVISION OF MADAN BURKETT & ASSOCIATES, INC.



Thank you to all our volunteers. **6TH ANNUAL BATTLE OF THE BANDS: FACULTY/ALUMNI VS. STUDENTS** · Noa Albanese DMD 2015 · Andre Arsenault · Mikayla Boyd BDSd 2014 · Lesley Branton · Danielle Coulson DMD 2014 · Hailea Fulljames BDSd 2016 · Dr. Duncan Higgans · Tina Hsi BDSd 2015 · Phil Hou DMD 2014 · Priya Kandola DMD 2014 · Amanda Lacerda DMD 2015 · Natalie Leung BDSd 2017 · Raj Lidder BDSd 2016 · William (Bill) McDonald DMD 1977 · Julianne Proniuk DMD 2015 · Anastasios Rinquinha DMD 2016 · William Rosebush DMD 1983 · Doug Scober · Kelsey Singer BDSd 2014 · Emily Thong DMD 2017 · Nora Tong BDSd 2014 · Annie Yun DMD 2017 · Steven Zbarsky DMD 2017 · Zack Zeiler DMD 2015 **50TH ANNIVERSARY ADVISORY COMMITTEE** · Brenda Currie Dip DH 1976 BDSd 2004 MSc 2007 · Ash Varma DMD 1983 **50TH ANNIVERSARY-THE BASH! AT THE COMMODORE BALLROOM ADVISORY COMMITTEE** · Andre Arsenault · Mary Banford Dip DH 1978 · Dr. Marcia Boyd · Susan Chow DMD 1972 · Prof. Bonnie Craig · Brenda Currie Dip DH 1976 BDSd 2004 MSc 2007 · Dr. Andrea Esteves MSc 1994 · Phil Hou DMD 2014 · Jeremy Huynh BDSd 2015 · Prof. Zul Kanji MSc 2011 · Mrs. Sophia Leung CM · Bruce McCaughey · Robyn McCorquodale · William (Bill) McDonald DMD 1977 · Gerri Randall · Jordan Sanders DMD 2015 · Nora Tong BDSd 2014 **BUREAU OF LEGAL DENTISTRY** · Karen Black DMD 1983 · Dr. Randal Donaldson · Dr. Tom Jasper · Dr. Glenn Keryluk · Dr. Jose Lopez · Dr. Darcy Murphy · Dr. Nick Northeast · Ron Pearson DMD 1974 · Dr. Tom Routledge · Jim Severs DMD 1976 **DENTAL MENTORSHIP PROGRAM** · Janice Brennan DMD 1990 · Mary Lou Campbell DMD 1985 · Jim Chen DMD 2003 · Wayne Chou DMD 1979 · Jeffry Davis DMD 1980 · Dr. Ashley Dykun Yakiwchuk · Sandra Finch DMD 1991 · Dr. Grace Fong · Raymond Fong DMD 1989 · Dr. William Gaede · Dr. Myrna Halpenny · Patricia Hunter DMD 1983 · Dr. Christopher Kan · Nazeem Kanani DMD 1996 · Andrew Kay DMD 1981 · Dr. Arshbir Kler · Alisa Lange DMD 1994 · Michael Lau DMD 1998 · Kevin Lauwers DMD 2005 · Angelique Leung DMD 1988 · Joyce Ling DMD 1984 · Bruce Marshall DMD 1992 · Sandy McFarlane DMD 1982 · Eha Onno DMD 1992 · Maureen Piche DMD 2007 · William Riddell DMD 1987 · Dr. Andrew Shearon · Dr. Robert Sims · Erwin Soon DMD 1981 · Dr. Cheng-Lun Wang · Dr. Bruce Ward · David Waterman DMD 1979 **DENTAL UNDERGRADUATE SOCIETY** · Carlee Beuk DMD 2016 · Vikram Boparai DMD 2014 · David Chen DMD 2014 · Matthew Chin DMD 2016 · Danielle Coulson DMD 2014 · Brittany Fandrick BDSd 2015 · Phil Hou DMD 2014 · Jeremy Huynh BDSd 2015 · Jiya Jung DMD 2016 · Jay Lam DMD 2016 · Chris Lee DMD 2015 · Jared Lee DMD 2016 · Soroush Liaghat DMD 2016 · Graham Macdonald DMD 2014 · Mike Mah DMD 2015 · Alexandra Moore DMD 2016 · Lisa Nam DMD 2015 · Kim Nguyen BDSd 2014 · Julianne Proniuk DMD 2015 · Jordan Sanders DMD 2015 · Jillian Tan BDSd 2014 · Zack Zeiler DMD 2015 **GERIATRIC DENTISTRY PROGRAM-GRAD PROGRAM** · Dr. Nelson Hui **PACIFIC DENTAL CONFERENCE** · Vikhar Ahmed DMD 2015 · Mary Banford Dip DH 1978 · Dr. Marcia Boyd · Peter Cao DMD 2015 · Dr. Rick Carvalho · Bruce Chou DMD 2015 · Prof. Bonnie Craig · Chris Dare DMD 2015 · Dr. Andrea Esteves MSc 1994 · Chris Lee DMD 2015 · Alan Lowe DMD 1972 · Leith Maal-Bared DMD 2015 · Bruce McCaughey · Allison Nicholls DMD 2015 · Ajand Nobahari DMD 2015 · Julianne Proniuk DMD 2015 · Dr. N. Dorin Ruse · Nancy Schmidt DMD 2015 · Kevin Shen DMD 2015 · Charlene Tai DMD 2014 · Sarang Toosi DMD 2015 · Michael Tsai DMD 2015 · Sinthi Vaithilingham DMD 2014 · Chris Wyatt DMD 1986 · Dr. Edwin Yen · Zack Zeiler DMD 2015 **REUNION LEADERS** · Rob Armstrong DMD 1994 · Nav Mann DMD 2004 · Reza Nouri DMD 1994 · James Richardson DMD 1984 · Renate Simmons DMD 1999 · Brian Sully-Daniels DMD 1989 · Cheryl Taira DMD 1994 **UBC ALUMNI ASSOCIATION ADVISORY COUNCIL** · Ryan Lauwers DMD 2004 **UBC DENTISTRY BOARD OF COUNSELLORS** · Dr. David Baird DMD 1980 · Dr. Richard Busse DMD 1986 · Dr. Kenneth Chow · Dr. Susan Chow DMD 1972 · Ms. Brenda Currie Dip DH 1976 BDSd 2004 MSc 2007 · Ms. Carrie De Palma BDSd 2010 · Mr. Craig Dewar · Dr. Mandy Hayre BDSd 1994 · Dr. Asef Karim

THANK YOU

DMD 1999 MSc 2013 · Dr. Mark Kwon DMD 1997 · Mrs. Winnie Leong · Mrs. Sophia Leung CM · Dr. Jin Li-Jian · Mr. Hyo Maier · Dr. Nick Seddon DMD 2006 · Dr. Chuck Slonecker · Dr. Peter Stevenson-Moore · Mr. Ron Suh · Dr. Tim Tam · Dr. Ash Varma DMD 1983 · Dr. Bill Wong · Dr. Benjamin Yeung DMD 1983 · Dr. Ron Zokol DMD 1974 **VOLUNTEER CLINIC-ABBOTSFORD FOOD BANK** · Dr. Houman Abtin MSc/Dip Endo 2011 · Tony Bae DMD 2013 · Dilraj Bal DMD 2014 · Therese Balleza BDSd 2015 · Lauren Currie DMD 2014 · Ray Dyck DMD 1992 · Michelle Foster BDSd 2016 · Nevin Haynes BDSd 2015 · Dr. Kevin Ho · Jeremy Huynh BDSd 2015 · Paul Lee DMD 2015 · Kelvin Leung DMD 2016 · Brinder Mann BDSd 2014 · Stacy Rhodes-Nesset · Shamsher Sandlas DMD 2015 · Joe Tian BDSd 2015 **VOLUNTEER CLINIC-RAY-CAM CO-OPERATIVE CENTRE** · Bob Blacker · Dr. Bill Brymer · Kathy Chatten · David Hemerling DMD 1993 · Alex Hupka · Robin Jackson DMD 1968 · Elizabeth Johnson-Lee DMD 1992 · Doug Nielsen DMD 1972 · Susan Nielsen · Lorine Scott · Jocelyn Shih DMD 2015 · Garry Sutton DMD 1972 **VOLUNTEER CLINIC-RICHMOND GENERAL HOSPITAL** · Michelle Bedard · Belinda Boyd · Dr. Bill Brymer · Joyce Chan DMD 2015 · Kathy Chatten · Joanne Dawson · Reza Entezarion DMD 2016 · Michelle Foster BDSd 2014 · David Hemerling DMD 1993 · Phil Hou DMD 2014 · Alex Hupka · Elizabeth Johnson-Lee DMD 1992 · Priya Kandola DMD 2014 · Jared Lee DMD 2016 · Brinder Mann BDSd 2014 · Scott Matheson DMD 2016 · Jinny Nam DMD 2014 · Doug Nielsen DMD 1972 · Susan Nielsen · Mandy Nip BDSd 2014 · Leslie Riva · Sonia Sahi DMD 2017 · Gagandeep Saran DMD 2015 · Jocelyn Shih DMD 2015 · Reeti Soni DMD 2017 · Mike Stearns DMD 2014 · Sarang Toosi DMD 2015 **VOLUNTEER CLINIC-VANCOUVER NATIVE HEALTH SOCIETY** · Dr. Houman Abtin MSc/Dip Endo 2011 · Nick Al Nabulsi DMD 2017 · Siavash Alam-Shoushtari DMD 2016 · Noa Albanese DMD 2015 · Tony Bae DMD 2013 · Don Beeson DMD 2016 · Vikram Boparai DMD 2014 · Dr. Bill Brymer · Dr. Rene Buttar DMD 2005 · Jay Chan DMD 2014 · Joyce Chan DMD 2015 · David Chen DMD 2014 · Jordan Cheng DMD 2017 · Matthew Chin DMD 2016 · Lisa Cho DMD 2014 · Bruce Chou DMD 2015 · Anne Fang DMD 2017 · Sangwoo Ham DMD 2014 · David Hemerling DMD 1993 · Dr. Kevin Ho · Milena Hobbs DMD 2014 · Phil Hou DMD 2014 · Zoltan Keresztes DMD 1982 · Julia Lam DMD 2015 · Kevin Lauwers DMD 2005 · Paul Lee DMD 2015 · Kyla Leung DMD 1015 · Soroush Liaghat DMD 2016 · Francis Lim DMD 2015 · Graham MacDonald DMD 2014 · Mike Mah DMD 2015 · Scott Matheson DMD 2016 · Maryla Mollania DMD 2015 · Jinny Nam DMD 2014 · Karen Nguyen DMD 2016 · Dylan Olver DMD 2017 · Sonny Phangura DMD 2014 · Julianne Proniuk DMD 2015 · Dr. Geoff Remocker · Fiona Roth DMD 2016 · Adam Samji DMD 2015 · Jassica Serai DMD 2015 · Kevin Shen DMD 2015 · Dr. Chuck Shuler · Amanda Sigouin DMD 2017 · Tanmeet Singh DMD 2014 · Stephanie Song DMD 2003 · Stacy Stelling DMD 2016 · Dr. Lisa Tran · Michael Tsai DMD 2015 · Kevin Urness DMD 2016 · Sinthi Vaithilingham DMD 2014 · Candace Woodman DMD 2007 · Patrick Wu DMD 2009 · Ruby Wu DMD 2015 **VOLUNTEER COMMUNITY CLINIC PROGRAM-STUDENT LEADERS** · Paul Lee DMD 2015 · Jamie Marshall DMD 2015 · Fiona Roth DMD 2016 · Shamsher Sandlas DMD 2015 · Jocelyn Shih DMD 2015 · Michael Tsai DMD 2015 **YOUNG ALUMNI & STUDENT PUB NIGHT AT THE PDC** · Jordan Sanders DMD 2015 · Sinthi Vaithilingham DMD 2014 *Those listed with DMD or BDSd years from 2015 through 2017 following their names 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 - 2015

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

SEPTEMBER 2014

5-6 (FRIDAY - SATURDAY)
Frontier Live
Weekend 1: Preparation (lecture and clinic)

20 (SATURDAY)
CDE 50th Anniversary Symposium Presents
Current Topics in Dentistry
Dr. Volinder Dhesi, Dr. Manor Haas, Dr. Paul Jang, Dr. Jonathan Ng, Dr. Byoung In Suh, Dr. David Sweet OC

27 (SATURDAY)
The Art and Science of Restoring Damaged, Missing, Disfigured or Unpleasant Maxillary Anterior Teeth
Dr. Dennis Nimchuck, Dr. Roxanna Saldarriaga

OCTOBER 2014

3-4 (FRIDAY - SATURDAY)
Frontier Live
Weekend 2: Cementation (lecture and clinic)

18-19 (SATURDAY - SUNDAY)
Introduction to Dental Microscopy and Advanced Endodontics
Dr. Jeff Coil

25 (SATURDAY)
Crown Lengthening
Dr. Farzin Ghannad

31-2 (FRIDAY - SUNDAY)
Inhalation and Oral Sedation in Dentistry
Dr. David Donaldson, Dr. Mark Donaldson, Dr. Fred Quarmstrom

OCTOBER - NOVEMBER 2014

18 (SATURDAY)
25-26 (SATURDAY - SUNDAY)
1-2 (SATURDAY - SUNDAY)
8-9 (SATURDAY - SUNDAY)
Clinical Skills Enrichment Course (CSEC) for Foreign-Trained Dentists
Dr. Goli Khorsandian

NOVEMBER 2014

21-23 (FRIDAY - SUNDAY)
Cone Beam CT Program
Ms. Nadine Bunting, Dr. Nancy Ford, Dr. David MacDonald

29-30 (SATURDAY - SUNDAY)
The Use of Oral Appliances for the Treatment of Snoring and Obstructive Sleep Apnea
Dr. Fernanda Almeida, Dr. Alan Lowe

DECEMBER 2014

13 (SATURDAY)
Elder Care
Dr. Michael MacEntee

JANUARY 2015

17 (SATURDAY)
Forensic Odontology and Disaster Victim Identification
Dr. Dirk van der Meer, Dr. Tom Routledge

FEBRUARY 2015

2-6 (MONDAY - FRIDAY)
Adventure and Learn: Hawaii 2015
Dr. Lou Graham, Dr. Benjamin Pliska, Dr. Roxana Saldarriaga, Dr. Charles Shuler

19-21 (THURSDAY - SATURDAY)
Whistler Ski Seminar
Dr. David Kennedy, Dr. Sonia Leziy, Dr. Brahm Miller, Dr. Fred Quarmstrom

MARCH 2015

TBA (SATURDAY - SATURDAY)
Thailand Travel and Learn
Dr. Jeff Coil, Dr. Chris Wyatt

MAY 2015

8-9 (FRIDAY - SATURDAY)
Bone Grafting
Dr. Tassos Irinakis

STUDY CLUBS 2014 - 2015

September 2014 - July 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

October 2014 - May 2015
Advanced Fixed Prosthodontics for the General Practitioner Part 1
Dr. Chris Wyatt

October 2014 - April 2015
The Digital Dental Workflow: Revolutionizing the General Dental Practice
Dr. Jonathan Ng

For dates, times and locations of study clubs, visit www.dentistry.ubc.ca/cde

FOR REGISTERED DENTAL HYGIENISTS AND CERTIFIED DENTAL ASSISTANTS

SEPTEMBER 2014

A Comprehensive Review of Local Anaesthesia for Dental Hygienists

27-28 (SATURDAY - SUNDAY)
Ms. Nancy Baily, Ms. Ruth Lunn, Ms. Alma Pauw, Ms. Susan Schmitz, Dr. Erin Shave, Ms. Ellen Stradiotti, Ms. Ann Szeto, Ms. Linda Talbot

2014 FALL THURSDAY EVENING LECTURE SERIES FOR DENTAL HYGIENISTS

October 2, 30, November 20, December 11
Topics and speakers will be posted on www.dentistry.ubc.ca/cde

CDE PARTNERSHIP

September 2014 - July 2015
AAID (American Academy of Implant Dentistry)
Vancouver Maxicourse
For more information, visit www.vancouvermaxicourse.com

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 2014

CDE 50th Anniversary Symposium

September 20 (Saturday) 8:30 am - 4:30 pm

Lecture Theatre 2, Woodward Instructional Resources Centre, UBC Point Grey Campus

Modern Materials: Making Not Only Your Patient's Life Better, But Also Yours
Dr. Volinder Dhesi

The Next Generation of Implant Dentistry: Innovative Approach to Single-Tooth Replacement and Full-Arch Rehabilitation
Dr. Paul Jang

Advances in Endodontics Every Dentist Should Know: What's New, What's Worth It, and How It Improves Root Canal Treatments
Dr. Manor Haas

Digital Dental Workflow
Dr. Jonathan Ng

New Universal Adhesives and Bioactive Materials: Innovations for Better Dentistry?
Dr. Byoung In Suh

Registration at www.dentistry.ubc.ca/cde

50TH ANNIVERSARY OF THE FACULTY OF DENTISTRY

Fifty Fabulous Years-The Bash!

At the Commodore Ballroom

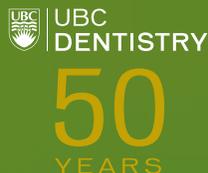
September 20, 2014 (Saturday)

Featuring the Faculty/Alumni Band playing hits from all the decades, plus special guests Odds and Vancouver Theatre Sports League.

Ticket price includes complimentary celebration cocktail and drink ticket, substantial food served throughout the evening at themed stations, chances to win raffle prizes, and all the fabulous entertainment.

Special group rate for 10 or more tickets. Bring the whole office! Includes reserved seating, complimentary bubbly and bonus entry into the Grand Prize draw.

Tickets at www.dentistry.ubc.ca/bashtix



EVENTS FOR STUDENTS AND ALUMNI

VOLUNTEER COMMUNITY CLINICS—UPCOMING

Vancouver Native Health Society (Vancouver)
August 23, 2014 (Saturday)

Richmond General Hospital (Richmond)
September 6, 2014 (Saturday)

Open Wide Community Clinic Day, CDI College (Burnaby)
September 13, 2014 (Saturday)

Ray-Cam Co-operative Centre (Vancouver)
September 13, 2014 (Saturday)

More information about these events can be found at www.dentistry.ubc.ca/cvcp

MORE EVENTS FOR ALUMNI

Alumni Wine Reception at the TODS Meeting, Kelowna
October 24, 2014 (Friday)

IMPRESSIONS

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