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.

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

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 will 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. Students will be receiving the remarkable achievements of the past 50 years.

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 combines a broad spectrum of courses from the UBC School of Population & Public Health and the Faculty of Dentistry.

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 Benvenga, 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.

“For 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.
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 1991) and Gloria Tyler (Dip DH 1972, DMD 1990).

The Canadian National Proteomics Network (CNPN) honoured Dr. Christopher Overall, Dentistry professor and Canada Research Chair in Metalloprotease 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 metalloproteases 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 Metalloprotease Proteomics and Systems Biology, he has won several national and international awards, including the Canadian Institutes of Health Research Scientist Award for Research in Oral Biology, and his 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.

Students Open Their Mouths for 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.

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Christopher Overall: CNPN Distinguished Researcher

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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.

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’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.

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.

One of the world’s largest dental training institutes, the Academic Centre for Dentistry in Amsterdam (ACTA), chose UBC Dentistry recently to publish its 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 recent 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 from the University of Alberta), 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 more 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 over 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.

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-head and the Helios NanoLab did the rest. What is truly remarkable is that the logo is only 0.008 mm in diameter. The final image was first revealed at UBC Dentistry’s Annual Research Day this past January.

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


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

Acknowledge UBC Dentistry Faculty Members

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 Distinguished Service Award to 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.

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 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.

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UBC DHDP Student Wins CDHA Leadership Award

Aaira Custodio, a recent Dental Hygiene Degree Program graduate, won the 2014 Canadian Dental Hygienists’ Association Leadership Award sponsored by Dentistry. 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 Aaira 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 nap 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 membership 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 year’s recipient. “Perhaps our students have started a leadership tradition,” says Prof. Bonnie Craig, director of UBC’s Dental Hygiene Degree Program.

Sports have always been a big part of Tannmet’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.”

Tannmet 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.”


Orange REDCap Platform Hosted at UBC

Leading dental sleep medicine researchers from nine countries 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.orangelsleepgroup.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 most non-surgical alternative to continuous positive airway pressure (CPAP) treatment. CPAP involves a mask—it’s 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 these benefits compare to CPAP. They explain the need for standardized data along with variable data. For a deeper discussion, see: Almeida et al, Journal of Dental Sleep Medicine (April 2014).
‘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 Weebling 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...
**Skogra 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 for the top 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 dentists, no residencies, no pathology biography 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, a specialty training in endodontics, and 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, Beagrie seeded a number of young researchers at UBC, including Alan Lowe, Ed Yen and Tim Gould, who added specialty training in periodontics, maxillofacial surgery, mammalian jaw biomechanics, maxillofacial radiology, oral-facial pain, occlusal function and computer simulation.

Hannam’s own subsequent research. These protégés, and researchers who had trained in his lab paid some funding from external sources and ran laboratories that supported full-time technicians,” recalls Hannam.

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 opened-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. 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 proteges, 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...
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.”

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 1985, 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 microporous 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 Tzonetich, pioneered research on haptotaxis that had widespread practical applications for consumers in oral care. Tzonetich discovered that volatilized sulfur containing compounds were the key culprits of bad breath. “Joe’s research on the effects of zim with baking soda on oral malodor led to the introduction of mouthwash 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 supported by citizens 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 Impression articles online:

- Building Better Implants—Cell by Cell
- The Vanguard of Restorative Biomaterials Research
- Novel Growth Tissue and Bone—Using Stem Cells in Periodontal Regeneration
- Researching Out to Combat Oral Cancer
- Exploring the Role of Enzymes in Disease
- Battling Biofilms—Innovations in Endodontics
- ELDER Wisdom Improves Seniors’ Quality of Life
- Oral Insights Into Scarless Wound Healing
- Towards a Healthy Smile for Every Child

The Overall Approach: Periodontal 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.

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 infrastructure project, Putnins assembled top UBC researchers from multiple disciplines to win federal and matching funds in Canada, and is leading the team to design an infrastructure that is ready to support groundbreaking research.

Putnins’ research on the use of 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 gorging (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 autoimmune colitis.

Multidisciplinary community- and population-based research programs are equally active in the Faculty. Michael MacEwan’s visionary work exploring the oral health 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 Kathia Mathur-Mejia’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.

“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 degree at the University of Iowa before getting hired at UBC.

Clinical dental teaching at UBC began in 1964 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.

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.

UBC DENTISTRY IMPRESSIONS

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UBC DENTISTRY IMPRESSIONS

19 SPRING – SUMMER
"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 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-proclaimed priorities in life—kindness, co-operation and curiosity—Harrop introduced books of a philosophical nature. "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 Yao, 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, Yao 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 working on teeth. Now, at UBC Dentistry, all dental and hygiene students are required to wear one.)

Infection control – As a first-year student in the 1980s, Best wasn’t required to wear gloves and masks for all procedures or to use barriers on the dental chair equipment today, these are essential.

UBC Dentistry, Best says, is one of the few dental faculties that offer students simulation in a real clinical setting, using a computer-controlled ergonomic patient chair. Previously, in the 1980s, UBC used the more common bench-top lab, which included a pole with a mannequin head mounted on it as a patient simulation.

Today, students rely heavily on online learning resources, Best says. “We’re at a turning point in educational multimedia tools, exploring what’s out there and how we should be using it.” With today’s advanced technology, equipment, procedures and sensitivities toward patient and student needs, she adds: “It would be fun to be a student now.”

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."

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.’"

Between the classroom, the Faculty of Dentistry emphasized the application of PBL (Problem-Based Learning) 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.

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. "It’s 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 capacity, 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."

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.

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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 to 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/tme_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

"We know the architectural elements we need—we’ve done our homework. We just need financial support to build it.”
– Dr. Edward Putnins

EXPANDING ACCESS TO CARE FOR AT-RISK AND UNDERSERVED POPULATIONS

Henry Schein Gives Back to the Community Through UBC Dentistry

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 Smigelski, Legis (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 Deeke 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 Students,” 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 stretched back to pioneering work with the World Health Organization in 1981.

“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 Fukusa, 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, more than half of 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 revealed 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 operator’s 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 operator 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 long time research collaborator Dr. Michael Bleyer, 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 in the clinician. Then he 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 Lauren Chan, reprinted with permission from UBC Faculty Affairs (published in UBC Report, April 16, 2011).

“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 practice. 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 operator set-up.

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

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 occlusal 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 mandible 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.

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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 hygiene students, as well as graduate students in clinical specialty programs, will provide curriculums-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 one- or two-chair dental operatory. It also has 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 $230,000.

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. Azang Nowbals, 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.

To 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.

“Being a great dental school means stretching beyond the laboratory and classroom.” —UBC Dentistry Strategic Plan

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 development@ubc.ca.
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.

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 dentures—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 he received, he could finally smile. “I couldn’t be happier now,” he says. “I feel like myself again. It has totally changed.”

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

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You can find him on the tennis court, beaming as he rallies a ball with an opponent.

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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The Bash!
At the Commodore Ballroom

FIFTY FABULOUS YEARS

The Bash!
At the Commodore Ballroom

Saturday, September 20
Doors open at 7PM

Commodore Ballroom
868 Granville Street, Vancouver BC

ROCK ‘N’ ROLL CHIC ATTIRE

Thank you to our proud sponsors of The Bash!

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

+ special guests:

• Faculty/Alumni Band
  Playing hits from all the decades
  Featuring the
  Commodore Ballroom
  868 Granville Street, Vancouver BC

• Odds and Vancouver Theater Sports League

• Brenda Currie, Dip DH 1976, BDSc 2004, MSc 2007; Warren Roberts DMD 1977; Charles Shuler, professor and dean; Sharma K. Sinanan DMD 1972; David Sweet OC DMD 1978; Caroline Cesar DMD 1989; Brian Chanpong, assistant professor; Tobin Bellamy DMD 1998; Caroline Cesar, clinical professor.

• The classes of 1984, 1989, 1994, 1999 and 2004

• Milestone Class Reunions

• The Throwback To the 1990s Dance Party-
  courtesy of the UBC Theatre Sports League. And alternative rock band
  uproariously at a performance by the Vancouver
  Theatre Sports League. And alternative rock band

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50 Years of UBC Dentistry: Well Celebrated at PDC

As anticipation heightened 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; Toby Bellamy DMD 1999; Caroline Cesar DMD 1989; Brian Chanpong, course director for “Local Anesthesia and Minimal Sedation”, Jason Chen DMD 2008; Wilson J. Kwong DMD 1969; Sonia Loi DDP 1993; Robert Marcinka DMD 2000; Brahman Miller clinical assistant professor; Samson Ng DMD 2002; MSc 2004; Mark Olesen DMD 1999; Mark Parhar DMD 1999; Brenda Currie, Dip DH 1976, BDSc 2004, MSc 2007 and Ash Varna, DMD 1993.

UBC Dentistry 50

FI FTY FABULOUS YEARS

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 fine 50th anniversary sponsors: Scotiabank, ROI Corporation, Sinclair Dental, MINF LLP and Oilfield & 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!

Thank you to our proud sponsors of The Bash!

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 side show of all these pictures and download your favourites at www.dentistry.ubc.ca/pdc2014/photobooth.
Congratulations

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

We’re pleased to recognize your success and celebrate the partnerships we’ve built together.

Congratulations UBC Dentistry on 50 Years of Excellence

Calvin Carpenter, CPA, CA
Vice President, Professional Services
T: 780.453.5360
E: calvin.carpenter@mnp.ca

Don Murdoch, CPA, CA
BC Leader, Professional Services
T: 250.979.1734
E: don.murdoch@mnp.ca

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Business Lawyers
Providing legal services to Dentists and the Dental Community throughout British Columbia, including:

- associate agreements, buying and selling dental practices, leases, incorporations, corporate reorganizations, cost sharing agreements and employment matters
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Patricia C. Madaisky
1400 – 355 Burrard Street, Vancouver, B.C. V6C 2G8
Phone: (604) 683-8885 / Fax: (604) 683-4646
email: madaisky@shaw.ca

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.

UBC DENTISTRY 50TH ANNIVERSARY FUND · WWW.DENTISTRY.UBC.CA/50FUND
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, 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.

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 adds, “It comes on your side when it comes to oral cancer.”
2000s

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

Cheryl Wu
DMD 2003

Cheryl won the 2014 Barbara J. Heisterman Award from the British Columbia Dental Association, amidst the leadership of many community services. Cheryl has a 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 to prevent tooth decay in dental patients, people with physical or mental impairments, and people with HIV/AIDS. Cheryl is known for providing care to patients in their homes, even in their beds, when these patients become too ill to come to 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.

Paul Mkhali
DMD 2002

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.

2010s

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

Nov 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.

Diana Kori
DMD 2011

In a recent note to the dean, Dr. Charles Shuler, Diana wrote 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 (as 2016).”

Evan Wern
DMD 2012

Evan and Ian Letch 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.”

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.

Phil Hou
DMD 2005

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.

**In Memoriam**

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 2010, and in 2013 she earned a Certificate on Teaching 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.

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 care for adult patients.

Danny and Natalie joined Dentistry professor Dr. Bill Bryner 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 Anita 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 care 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, 10 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.”

Almost Alumni

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 humanity, adventure and empathy. Her passing leaves a deep emptiness in those she left behind, and she will be missed tremendously.

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.

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Both Priya and Aleem are thankful for the experience which has inspired me to continue to reach out to those in need in the future. This experience has helped me develop my skills in different aspects of dentistry, and it helped me gain valuable educational experience. Aleem says he was "able to increase his knowledge and improve his skills while treating pediatric patients". The experience has shown him the importance of providing dental care to children who may not have access to it otherwise.

In Siem Reap, Cambodia, their rotations were focused on treating children with dental needs. Many of the children had never received dental care before, and Aleem was able to provide them with care they had never received. The experience was emotionally rewarding for both Priya and Aleem, as they were able to see the positive impact their work had on the children. They both feel that this experience has made them more compassionate and caring dentists, and they are hoping to continue to help those in need in the future.

In April 2014, the Dentistry Alumni Association and the Dentistry Student Association co-hosted a spring reception in the sun and under the banner of Dentistry’s 50th anniversary. The reception was held at the Real Sports Bar and Grill following the Ontario Dental Conference, and it was attended by alumni, friends, and students. The reception included wine, hors d’oeuvres, cheese and conversation, and an opportunity to network with fellow alumni.

On May 4, 2014, alumni and friends attended a spring soccer game between Dentistry alumni and students. The game was held at the Real Sports Bar and Grill, and it was a fun and exciting event for everyone.

Alumni Reception on 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 fellow Okanagan alumni for a glass of wine, hors d’oeuvres, cheese and conversation. The 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.

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. For information about the reception, email alumni@dentistry.ubc.ca.

Alumni Wine Reception at the Pacific Dental Conference 2015

Friday, March 6, 2015 - 6-8 pm
West Baldwin Foyer, Vancouver Convention and Exhibition Centre

Alumni WINE RECEPTION AT THE PACIFIC DENTAL CONFERENCE 2015

Friday, March 6, 2015 - 6-8 pm
West Baldwin Foyer, Vancouver Convention and Exhibition Centre

Alumni Wine Reception at the Pacific Dental Conference 2015

Friday, March 6, 2015 - 6-8 pm
West Baldwin Foyer, Vancouver Convention and Exhibition Centre

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.

Alumni Wine Reception at the Pacific Dental Conference 2015

Friday, March 6, 2015 - 6-8 pm
West Baldwin Foyer, Vancouver Convention and Exhibition Centre
**CONTINUING DENTAL EDUCATION 2014 - 2015**

**SEPTEMBER 2014**

5 – 6 (SATURDAY – SUNDAY)
**Frontier Live**
West Coast Preparation (lecture and clinic)

20 (SATURDAY)
**CDE 50th Anniversary Symposium Presents**
Current Topics in Dentistry
Dr. Walter Dent, Dr. Howard Hare, Dr. Paul Mardini, Dr. Stephen Smidt, Dr. David Sweet DC

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

**OCTOBER 2014**

4 – 5 (FRIDAY – SATURDAY)
**Frontier Live**
West Coast Preparation (lecture and clinic)

11 – 12 (SATURDAY – SUNDAY)
**Seminars and Workshops**
Introduction to Dental Microscopy and Advanced Endodontics
Dr. John Chan

25 (SATURDAY)
**CDE 50th Anniversary Symposium Presents**
Identification and Treatment in Dentistry
Dr. David Donaldson, Dr. Mark McDonnell, Dr. Fred Quarmstrom

**NOVEMBER 2014**

21 – 23 (FRIDAY – SUNDAY)
**TBA**
CDE 50th Anniversary Symposium Presents
Frontier Live

3 – 4 (SATURDAY – SUNDAY)
**TBA**
CDE 50th Anniversary Symposium Presents
Frontier Live

5 – 6 (SATURDAY – SUNDAY)
**TBA**
CDE 50th Anniversary Symposium Presents
Frontier Live

20 (SATURDAY)
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Current Topics in Dentistry
Dr. Walter Dent, Dr. Howard Hare, Dr. Paul Mardini, Dr. Stephen Smidt, Dr. David Sweet DC

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

**DECEMBER 2014**

17 (SATURDAY)
**Seminars and Workshops**
Forensic Odontology and Disaster Victim Identification
Dr. Chris van der Meen, Dr. Tom Routledge

**FEBRUARY 2015**

8 – 9 (SATURDAY – SUNDAY)
**TBA**
Thailand Travel and Learn

**MARCH 2015**

5 – 6 (MONDAY – TUESDAY)
**TBA**
UBC—Radiant Advanced Orthodontics for the General Practitioner
Dr. Tassos Irinakis

19 – 21 (THURSDAY – SATURDAY)
**TBA**
Dr. Brahm Miller, Dr. Fred Quarmstrom

**APRIL 2015**

2 – 6 (MONDAY – FRIDAY)
**TBA**
Whistler Ski Seminar

8 – 9 (SATURDAY – SUNDAY)
**TBA**
Clinical Skills Enrichment Course (CSEC) for Foreign-Trained Dentists
Dr. Bela Morenden

**MAY 2015**

8 – 9 (SATURDAY – SUNDAY)
**TBA**
Groningen

15 – 16 (THURSDAY – FRIDAY)
**TBA**
A Comprehensive Review of Local Anaesthesia for Dental Hygienists
Dr. Christa Assmann, Dr. C. Schaefer

**JUNE 2015**

19 – 23 (TUESDAY – SATURDAY)
**TBA**
The Digital Dental Workflow: Revolutionizing the General Dental Practice
A. Kuhlmann

**JULY 2015**

1 – 4 (SATURDAY – TUESDAY)
**TBA**
The Digital Dental Workflow: Revolutionizing the General Dental Practice
A. Kuhlmann

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

**FOR FULL DETAILS OF CDE COURSES AND TO REGISTER VISIT DENTISTRY.UBC.CA/CDE**

**ADA CERP**

42 UBC DENTISTRY IMPRESSIONS

43 UBC DENTISTRY IMPRESSIONS

**FOR REGISTERED DENTAL HYGIENISTS AND CERTIFIED DENTAL ASSISTANTS**

**SEPTEMBER 2014**

A Comprehensive Review of Local Anaesthesia for Dental Hygienists
Dr. Christa Assmann, Dr. C. Schaefer

**OCTOBER 2014**

A Comprehensive Review of Local Anaesthesia for Dental Hygienists
Dr. Christa Assmann, Dr. C. Schaefer

**NOVEMBER 2014**

A Comprehensive Review of Local Anaesthesia for Dental Hygienists
Dr. Christa Assmann, Dr. C. Schaefer

**DECEMBER 2014**

A Comprehensive Review of Local Anaesthesia for Dental Hygienists
Dr. Christa Assmann, Dr. C. Schaefer

**FOR DATES, TIMES AND LOCATIONS OF DENTAL HYGIENISTS AND DENTAL ASSISTANTS CLINICS SEE 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/bash

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

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

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)

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