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Advancing Oral Health Through Outstanding Education, Research and Community Service



Dean's Message



*Dear Colleagues,
Welcome to the spring 2017 issue of UBC Faculty of Dentistry's Impressions.*

As my second term as dean of the Faculty of Dentistry at UBC draws to a close, I am reminded of the familiar saying, "time flies." Where have these past 10 years gone? But time is an intangible, so it is perhaps more meaningful to ask: "What has happened in the Faculty of Dentistry over the past 10 years?"

If you flip through the pages of *Impressions* magazine, starting with the first issue in 2008, you will see, unfolding across subsequent issues, story after story of achievement and contribution by many people. There are the talented and award-winning faculty and students engaged in diverse research, progressive education and meaningful community service. There are the generous donors who support the Faculty's many capital projects, student awards and bursaries, and community initiatives. And there are the dedicated alumni who work in communities and institutions across the province, throughout the country and around the world, elevating their respective oral health professions and their alma mater, the University of British Columbia.

The stories of achievement continue in this issue of *Impressions*. The "News" section is filled with items about students and faculty members who have won significant academic awards, prestigious fellowships and noteworthy research grants. In academic authorship, we have a top-10 ranking in a dental education journal, a secondary-school

student who was mentored in the Faculty of Dentistry listed as first author on a research paper, and twice the rare honour of being on the cover of scientific journals.

One of the feature articles in this issue profiles new faculty member and clinician-scientist Dr. Siddarth Vora, whose research focuses on midface hypoplasia and its effects on the health and visual appearance of an individual. UBC is fortunate to have Dr. Vora here; his career will contribute to comprehensive understanding of craniofacial growth and development.

Another article explores the efforts of interprofessional education at UBC. Zul Kanji, director of the dental hygiene program, is this year's chair of the UBC Health Curriculum Committee. Under Kanji's lead, educational collaborations between the dental and dental hygiene programs and with other health and human services professions at the university are in proficient hands.

You'll read about how, in recent months, both dental hygiene and dental students have engaged in volunteer service at clinics across the Lower Mainland, in a hospital setting in Vietnam and here across campus at many locations. Throughout my years as dean, I have witnessed a growing and keen appetite in students for community-involvement experiences.

I have always enjoyed reading "Class Notes"

and keeping up-to-date on alumni. As I have travelled throughout the province and to points beyond, I have had the honour to meet many of you—whether at a conference, a continuing education event, a reception, an awards ceremony or in a dental office. Alumni are the pulse of UBC's faculty of dentistry.

This issue of *Impressions* concludes the story of my part in the many achievements of UBC Dentistry's people over the 10 years I've served as dean. The heartbeat of UBC Dentistry is, I maintain, its faculty members and staff. Without the energy, passion, talent and stamina of faculty and staff, both past and present, I would not be able to look back and feel so proud of all our success.

As of August 1, 2017, Dr. Mary MacDougall will take over as dean of UBC Faculty of Dentistry.

I wish Dr. MacDougall and all the people at UBC Dentistry the very best.

With thanks,

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

NEWS

UBC Authors Among the JDE Top 10 for 2016

The 10 top articles published in the *Journal of Dental Education (JDE)* in 2016 includes one by UBC Dentistry authors Drs. Leandra Best, Joanne Walton, Judith Walker and HsingChi von Bergmann titled “Reaching Consensus on Essential Biomedical Science Learning Objectives in a Dental Curriculum.” Each year the *JDE*, the premier journal for academic dentistry, calls attention to a group of articles—the 10 “editor’s picks”—that represent exceptional scholarship. They are selected for quality of research and presentation, importance of topic area and innovative approach.

Published in April 2016, this article† describes how the UBC Faculty of Dentistry reached consensus on essential basic biomedical science objectives for Doctor of Dental Medicine (DMD) students and applied the information to the renewal of its DMD curriculum. It details using the Delphi Method to build consensus among dental faculty members and students regarding the relevance of over 1,500 biomedical science objectives. The consensus, reached by participants in the Delphi Method panels and subsequently reviewed by working groups of

faculty experts, led to a streamlined DMD curriculum that better integrates the relevant biomedical, behavioural and clinical sciences content. It also incorporates the Association of Canadian Faculties of Dentistry competency framework to prepare graduates for future general dentistry practice.

As noted in the article (accepted by *JDE* in September 2015), the incremental implementation of the renewed curriculum was set to commence in the Year 1 curriculum for 2015-2016 and Year 2 for 2016-2017. With that curriculum renewal on track, UBC Dentistry students now engage sooner in integrated restorative dentistry experiences and meaningful interprofessional activities.

Encouraged by the ranking of the article, Dr. Leandra Best, lead author and associate dean of Academic Affairs, says, “It also signifies that UBC Dentistry has not only been recognized for scientific research, but also for our educational research and teaching and learning innovations.”

The project described in the article was funded by the University of British Columbia

Teaching and Learning Enhancement Fund and by an award from the UBC Faculty of Dentistry Research Committee. The education research laboratory of Dr. HsingChi von Bergmann, the Faculty’s education specialist, was fully involved in the process.

The authors express their deepest appreciation to the UBC Dentistry faculty members and fourth-year dental students who participated in rating all the basic biomedical sciences learning objectives.

Additionally, a special thank you is extended to James Pagnotta, media support analyst on the Faculty of Dentistry Technical Support Team, for creating the electronic surveys and extracting survey data for the research, and to Maire Skelly, UBC Dentistry’s manager of curriculum, for extensive logistical support.

Finally, the authors acknowledge the support of the dean, Dr. Charles Shuler, and the contributions of Academic Advisory Team members Drs. Nancy Black, Rosamund Harrison, Ian Matthew and Eli Whitney, who extensively reviewed and translated the research results into focal biomedical sciences areas for the renewed UBC dental curriculum.



Read the article at <http://bit.ly/2mKcnkX>

A list of the top 10 articles may be found on the American Dental Education Association’s website at <http://bit.ly/2ntqxGQ>

†Best L, Walton JN, Walker J, von Bergmann HC (2016). Reaching consensus on essential biomedical science learning objectives in a dental curriculum. *Journal of Dental Education*, 80(4): 422-429.



Dr. Mary MacDougall

Provost Announces New Dean of UBC Dentistry

UBC provost Dr. Angela Redish is pleased to announce that the Board of Governors has accepted president Santa Ono's recommendation to appoint Dr. Mary MacDougall as the new dean of the Faculty of Dentistry. Dr. MacDougall will serve for a five-year term commencing August 1, 2017.

Currently, MacDougall is professor of Oral Maxillofacial Surgery and associate dean for Research in the School of Dentistry at the University of Alabama at Birmingham (UAB), where she holds the James R. Rosen Chair of Dental Research. She is director of the Institute of Oral Health Research, and director of the Dental Academic Research Training Program (DART) and the Pre-DART Research Program (PreDART). She is also founding director of the Global Center for Craniofacial Oral and Dental Disorders at UAB.

MacDougall received her BA (Biochemistry major and Theatrical Design minor) in 1978 from the University of California, San Diego. In 1984 she received her PhD (Craniofacial Biology) from the University of Southern California, where she began her professional research and teaching career. She then held a number of leadership roles at the University of Texas Health Science Center at San Antonio: director of the Research Division of Pediatric Dentistry (1993-1998), founding director of Craniofacial Oral-Biology Student Training in Academic Research (CO-STAR) and the Dental-Student Training in Academic Research (D-STAR) between 1998 and 2005, and associate dean for Research (1999-2005); she also served for one year as interim chair of

Pediatric Dentistry. Since 2005, at the University of Alabama at Birmingham, MacDougall has founded a number of research training programs for which she continues to serve as director.

In addition, MacDougall is an internationally recognized scholar, having published 18 book chapters and over 150 peer-reviewed articles. She has served as president of the International Association for Dental Research (IADR), as well as president of the American Association of Dental Research (AADR). In these leadership roles, she has gained significant senior management experience at the department, faculty and university levels, as well as in external global collaborations.

Dr. MacDougall brings a strong commitment to research, teaching and learning. She is passionate about mentorship for faculty, students and staff. She has received a number of mentorship awards and honours, including the IADR Women in Science Award for Distinguished Female Mentor (2017) and the AADR Distinguished Mentoring Award (2011). She is an elected fellow of the American Association for the Advancement of Science and the American Associate for Dental Research. Furthermore, MacDougall holds a record of success in fundraising and management of funds for partnership projects, infrastructure improvements and research grants.

In acknowledging her appointment, Dr. MacDougall says: "I would like to thank Dr. Santa Ono, Dr. Angela Redish and the members of the Faculty of Dentistry Search

Committee for selecting me as next dean of the UBC Faculty of Dentistry. It is truly a profound honour to carry forward the leadership of the dental school while interfacing with the distinguished UBC community-at-large. I envision that, with the continued support of the motivated team of students, residents, staff, faculty and administrators, we will continue to excel, impacting oral health care, education, service and innovation through discovery."

Redish would like to thank faculty members, staff, students and external stakeholders for participating in the search process and for providing valuable feedback to the President's Advisory Committee. She is grateful to the members of the advisory committee for their commitment of extensive time and energy throughout the search.

The provost also wishes to express her gratitude to dean Charles Shuler for his service to the university and to the Faculty during the past 10 years.

Dr. Redish is certain the Faculty of Dentistry will build its strengths under Dr. MacDougall's leadership, and she hopes you will all join in welcoming Dr. MacDougall to UBC.



Retirements: Full-Time Faculty

Lance M. Rucker, DDS, AB, BScD; Professor, Department of Oral Health Sciences; Director of Clinical Simulation; Director of the Surgical Telescope Evaluation Program; Chair, Division of Operative Dentistry

The Faculty of Dentistry is saying farewell to Prof. Lance Rucker, who is retiring after many years of commendable performance and service.

Dr. Rucker has improved modern dental-practice ergonomics through his pioneering research on custom declination in surgical telescopes, development of simulation training equipment, and teaching methodologies for developing psychomotor skills. Dental professionals trained to use these ergonomic techniques and equipment are fortunate to have had the benefit of Rucker's back- and neck-saving innovations.

He graduated with a DDS from the University of California, San Francisco, in 1974, but the call of northern British Columbia brought him to Canada. After six years as a general dentist in Dunster, he moved to Vancouver to work as staff dentist and clinic coordinator for the REACH Community Health Centre. His career at UBC began in 1983, when he was appointed assistant professor; in 2002 he was promoted to full professor.

Rucker's teaching has centred on operative/restorative dentistry and ergonomics, from simulation to clinical care, for all undergraduate and graduate dental students, as well as dental hygiene students. He worked closely with UBC colleagues Drs. Marcia Boyd and William Richter, and with Dr. Michael Belenky and others at the University of Maryland. His teaching excellence was recognized with an Association of Canadian Faculties of Dentistry W.W. Wood Award in 1992 and again in 2000.

At UBC Dentistry, Rucker served as director of Clinical Simulation, director of the Surgical Telescope Evaluation Program and chair of the Division of Operative Dentistry. He also served the Faculty and the university on numerous committees. As a member of the Dean's Advisory Committee for the new clinic space from 1999 to 2006, he had a key role in the design of the operatories and layout of the

clinical space, which is a model for other universities. And, most notably, he chaired the UBC Senate Committee on Appeals on Academic Standing from 2011 to 2017.

Rucker has written over 25 papers, 20 abstracts, seven reports and three book chapters on his various research interests. He has been a reviewer for several journals, including a long association with the *Journal of Dental Education*.

Beyond UBC, he has lectured locally, nationally and internationally on topics ranging from ergonomics, clinical hypnosis, aesthetic restoration and ethics. Several internationally recognized universities, the World Health Organization, the Workers' Compensation Board of BC (now WorkSafeBC) and disability insurance companies have consulted with Rucker on ergonomics. He has also been consulted by eight developers and manufacturers on the technological design of dental equipment.

Rucker is a member of the American College of Dentists, the American Dental Education Association, the Canadian Society of Clinical Hypnosis and the Association of Canadian Ergonomists.

In his spare time, he writes fiction novels and screenplays. His first published mystery-suspense book, *Intimate Falls* (2001), introduced the Vancouver-based character, information agent Brandon Drake. This was followed by *No Secrets* (2004) and *Final Labyrinth* (2005). Rucker also co-authored, with Okanagan lawyer Timothy Perrin, a screenplay titled *Albatross*, which won the Angie Award for Best Screenplay at the 2007 International Mystery Writers Festival.

Dr. Rucker and his loving wife Bianca plan on enjoying his retirement, visiting their children and grandchildren, transported in Madeleine, their restored 1939 Packard touring sedan.

Full-Time Faculty: Service to the Community



Dr. Mario Brondani

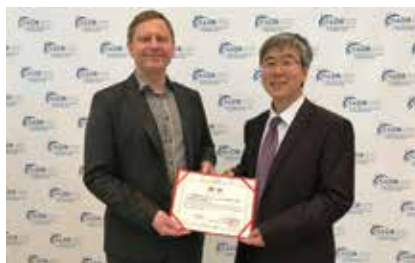
Mario Brondani, DDS, MSc, MPH, PhD, has been elected president of the Canadian Association of Public Health Dentistry (CAPHD). As president-elect, he is also chair of the conference committee, which has already started planning for the association's 2017 conference in Toronto. Dr. Brondani is an associate professor in the Department of Oral Health Sciences. Read more at www.caphd.ca/board-directors



Dr. Leeann Donnelly

Leeann Donnelly, BDS, MSc, PhD, has been selected as chair of the Research Advisory Committee for the Canadian Dental Hygienists Association (CDHA). The chair's role is to advise CDHA's chief executive officer on advancing research in the dental hygiene profession to positively impact the health of the Canadian public. Along with providing leadership and facilitating discussion for the Research Advisory Committee, this position's mandate includes: developing strategies for realizing CDHA's vision for research; guiding the organization's involvement in creating, supporting, disseminating and translating research that influences dental hygiene practice; seeking ways to enhance research capacity and uptake within the dental hygiene profession; and supporting the advancement of dental hygiene education in Canada. Dr. Donnelly is an assistant professor in the Department of Oral Biological & Medical Sciences. Read more about the CDHA at www.cdha.ca

Medical University in China Appoints Perio Prof



Professor Liangjia Bi (R) from the Department of Stomatology, Fourth Affiliated Hospital, Harbin Medical University, China, presents an honorary professorship to Dr. Hannu Larjava.

Dr. Hannu Larjava, professor in the Department of Oral Biological & Medical Sciences, has been appointed honorary professor at the Fourth Affiliated Hospital of Harbin Medical University, Harbin, China. The honour was bestowed in San Francisco, California, this past March at the 95th General Session & Exhibition of the International Association for Dental Research.

Larjava is a periodontology researcher whose areas are cell adhesion, integrins and signalling in wound healing and periodontal disease. He also teaches periodontics at the graduate level and chairs the Division of Periodontics and Dental Hygiene.

Grad Endo Student First to Win New IADR Fellowship



Dr. Zhejun Wang (L) talks with Nobel Peace Prize winner Dr. Steven Chu (Physics), who gave a keynote presentation after Wang's award announcement on March 24, 2017, at the IADR 95th General Session & Exhibition in San Francisco, California.

Zhejun Wang, a second-year graduate endodontics student, is the first ever recipient of the International Association for Dental Research (IADR) STAR Network Academy Fellowship. This new fellowship supports the awardee's attendance at the IADR Academy and IADR General Session & Exhibition, as well as a research experience in a renowned research laboratory. Wang merited the fellowship based on his research background and achievements. He received the award on March 24, 2017, at the IADR 95th General Session & Exhibition in San Francisco, California.

Dr. Wang, who hails from Wuhan University, China, began his academics at UBC in 2010 as a visiting scholar. In 2012, he was a postdoctoral Fellow in the lab of Drs. Markus Haapasalo and Ya Shen, and in 2015 started the graduate specialty program in endodontics. In 2011, he was a visiting scientist in the Cavendish Laboratory at the University of Cambridge in the UK, and in 2009 an exchange student in the US at the Medical College of Georgia school of dentistry. Wang already has over 50 publications, more than half done while at UBC.

"This fellowship is an outstanding recognition of Zhejun and also of the research undertaken in the Haapasalo-Shen lab," remarks Dr. Edward Putnins, professor and director of Research, Graduate & Postgraduate Studies at UBC Dentistry. Wang is supervised by professor Markus Haapasalo and co-supervised by associate professor Ya Shen, both

in the Department of Oral Biological & Medical Sciences, Division of Endodontics.

The IADR fellowship enabled Wang to visit Dr. Yvonne Kapila's lab at the University of California, San Francisco (UCSF), from March 25 to April 5, 2017. Dr. Kapila's work has focused on understanding the basic extracellular matrix processes that govern head and neck cancer tumorigenesis and periodontal disease pathogenesis.

Wang's research is mainly focused on oral microbiology. In recent years, he has investigated oral biofilm inhibition, extracellular polymeric substances formation, and antibiofilm material development (e.g., antibiofilm peptides). His expertise in bioimaging included techniques such as SEM (scanning electron microscope), flow cytometry (a biophysical technology, often using lasers, for cell counting and sorting) and biomarker detection using a confocal microscope.

This fellowship allowed Wang to strengthen the research relationship between UCSF and UBC: he and Dr. Kapila identified potential research opportunities for future collaborations. It also expanded Wang's understanding of contemporary research environments and exposed him to new and innovative research techniques that will advance the science at UBC.

UBC Health Awards 2016–Dentistry Among the Winners

UBC Health confers several awards and scholarships that acknowledge exemplary individuals and teams in interprofessional health, education and research. Recipients were honoured at UBC Health's annual Awards Reception on February 28, 2017. This year, several UBC Dentistry students, faculty and staff received recognition.

Iris Feng, a fourth-year dental hygiene student, won the ImpactBC Scholarship in Health Care Research and Development. This recognized Feng for her research project to determine—from patient, faculty and student perspectives—the acceptability of conducting point-of-care (POC) HIV screening as part of regular dental hygiene care. Feng collected data at community clinics where fourth-year dental hygiene students educate patients about HIV: what it is, how it's transmitted, risks, symptoms, testing and diagnosis. Patients can then make an informed decision about whether or not to accept a POC HIV screening. Feng's project supervisors were Dr. Mario Brondani, associate professor, Department of Oral Health Sciences, and Dr. Leeann Donnelly, assistant professor, Department of Oral Biological & Medical Sciences.

Fourth-year dental student Emily Thong won the 2016 Professor Jessie Gordon MacCarthy Memorial Scholarship for her contributions to many facets of community health. She has provided dental care to at-risk patients at volunteer dental clinics in various BC locations, including the Tsilhqot'in community of Tl'etinqox (Anaham), Abbotsford and Vancouver's Downtown Eastside. As a long-time volunteer crisis counsellor at the Vancouver Crisis Intervention and Suicide Prevention Centre, Thong has supported the emotional and mental well-being of Vancouver residents. She has been a program facilitator for Welcome to

My Life, an after-school program at the YWCA for grade seven girls; a camp counsellor at the Canadian Cancer Society's Camp Goodtimes; and a leader at the Fraserview Boys and Girls Club. Thong has also worked extensively with children and adolescents living with cognitive, mental and/or developmental disabilities, at Sunny Hill Health Centre for Children in Vancouver, as well as locations abroad.

The 2016 Practice Education Team Award was won by Dr. Greg Chang, a UBC Dentistry alumnus and creator of SuperChefs Cookery for Kids; Dr. Leeann Donnelly, assistant professor, Department of Oral Biological & Medical Sciences; and Dr. Gail Hammond, instructor, UBC Faculty of Land and Food Systems. Chang, Donnelly and Hammond won the award for their innovative interprofessional education project involving dental hygiene students and dietetics students. Groups from each faculty collaborated with each other to write recipes for *ChopChop*, a quarterly, fun, family magazine about food, nutrition and health. The magazine is used by pediatricians, hospitals, schools and community organizations in the United States. This was the first oral health component to appear in the publication.

The Award for Outstanding Leadership in Advancing Interprofessional Professional Development was won by the UBC Interprofessional Continuing Education (IPCE) team, which is administered by the UBC Faculty of Dentistry. Team members include: Kathryn Booth, program assistant; Katia Despot, senior education manager; Kristina Hiemstra, director; Cynthia Minh, program assistant; Jo Nam, senior education manager; Cris Ohno, financial processing specialist; Taylor Peterson, marketing coordinator; and Samantha Wong, registration clerk. Through its team approach to learning goal, UBC IPCE seeks to bring various health professionals, policy makers and members of the public together for focused discussion to share knowledge and facilitate collaboration across professional boundaries.

➔ Read more about UBC Health awards and scholarships at <http://bit.ly/2mtTrVM>



Iris Feng



Emily Thong



Dr. Greg Chang



Dr. Leeann Donnelly



Dr. Gail Hammond

Top CIHR Scholarship Cinched by PhD Student



Leigha Rock

Leigha Rock, a Craniofacial Science doctoral candidate, won a Frederick Banting and Charles Best Canada Graduate Scholarships Doctoral Award. Rock is now one of only a handful of doctoral students from the Faculty of Dentistry who, over the years, have garnered the prestigious scholarship from the Canadian Institutes of Health Research (CIHR).

Rock's research aims to predict cancer risk in oral premalignant lesions. Specifically, she is investigating genomic markers and changes in clinicopathological features over time, toward predicting malignant transformation of low-grade oral dysplasia.

Now in her third year, her project will build on findings by a research group from the BC Oral Cancer Prevention Program at the BC Cancer Agency, which has developed the only validated molecular marker for progression. This marker categorizes low-grade lesions into groups at low, medium and high risk for progression to cancer. The search for additional markers is important and has the potential to impact prevention, screening, diagnosis and treatment of this disease.

This CIHR doctoral scholarship award is substantial at \$105,000 over three years. Competition for these nation-wide awards is stiff across all the health disciplines—the majority have typically gone to medicine researchers. Rock placed in the top 0.43 percent of all applicants. This, according to UBC Dentistry's grant department, is the highest ranking achieved by any doctoral student in the Faculty in the last 30 years.

Rock attributes her success in winning the scholarship to "the outstanding support I am receiving from my supervisor, my committee and the Faculty." She is supervised by Dr. Denise Laronde, associate professor in the Department of Oral Biological & Medical Sciences. Dr. Miriam Rosin, senior scientist at the BC Cancer Agency, and Drs. Lewei Zhang and Batoul Shariati from the Faculty of Dentistry are also members of Rock's PhD thesis committee.

Local High-School Student First Author of Published Research Paper

Vancouver senior-high student Tian (Sally) Zhang has the distinction of being listed as the first author of a UBC Dentistry research paper, "Treatment of Oral Biofilms by a D-Enantiomeric Peptide," published in *PLOS ONE*.† The research looked at new antimicrobial peptides and their antimicrobial properties, and the paper demonstrates that this peptide is a promising agent for future oral antibiofilm strategies.

Zhang, a student at University Hill Secondary School, was one of 10 Vancouver school students chosen by the Sanofi Biogenius Canada (SBC) program. SBC challenges high-school students to carry out groundbreaking research projects in the field of biotechnology. Based on their application and research plans, those selected are matched with local mentors who give the students hands-on research experience in a professional lab setting.

From October 2015 to November 2016, Zhang worked on this project under the supervision of Dr. Markus Haapasalo, professor and chair of the Division of Endodontics at UBC Dentistry. Zhang did the work in Haapasalo's lab, in collaboration with Dr. Robert Hancock, professor in the Department of Microbiology & Immunology, Faculty of Science, and director of the UBC Centre for Microbial Diseases and Immunity Research.

The experiments used biofilm models that were developed in the Haapasalo lab, and peptide DJK-5 from the R.E.W. Hancock Laboratory. Biofilm killing tests involving the new antimicrobial peptides, a colony-forming units test and a minimal inhibitory concentration test were performed.



Tian (Sally) Zhang

Zhang's contributions to the research project were immense. Along with tasks related to data curation, formal analysis, investigation, methodology, software, validation and visualization, she wrote the original draft of the paper, and also reviewed and edited subsequent iterations.

"I am extremely grateful for Prof. Haapasalo's guidance, as well as the kindness of other lab members, who made the time in the lab so memorable," Zhang says. "It has been very exciting for me, as a high-school student, to carry out research in a university lab. I not only learned how to perform experiments, but also developed a deeper understanding of the research process. I learned that it is very challenging to produce results that are repeatable and reliable. This has been an invaluable learning experience."

Says Haapasalo: "It was an interesting experiment to have a high-school student embedded in the lab and working on a project that was important for us. Sally was quite exceptional: she learned quickly, was thorough and wanted to know about the science behind the project, enjoyed being part of the group of researchers, and communicated well. She produced very solid, reliable data—probably the highest antibiofilm activity against oral biofilms reported in the literature so far—which allowed us to publish in the prestigious *PLOS ONE* journal. I would take Sally back any time."

†Zhang T, Wang Z, Hancock REW, de la Fuente-Núñez C, Haapasalo M. (2016). Treatment of oral biofilms by a D-enantiomeric peptide. *PLOS ONE*. doi:10.1371/journal.pone.0166997.

UBC Graduate Prosthodontics Students Recognized



Dr. Walaa Ahmed

Prestigious Research Fellowship Grant Received

The American College of Prosthodontists Education Foundation (ACPEF) and the ACP Research Committee selected Dr. Walaa Ahmed to receive one of its research fellowship grants. Ahmed is in the fourth year of UBC's graduate prosthodontics program, undertaking a PhD in Craniofacial Science combined with a diploma in Prosthodontics.

The ACPEF grant will financially support her research, which aims to identify the source of intrinsic dimensional changes that zirconia undergoes when processed for CAD/CAM* prosthodontics, particularly at the sintering (process of heating and shrinking) stage. Her work also investigates how different features, such as marginal finishing and crown thickness,

can affect the overall dimensional changes and consequent fitting of prosthodontics made from zirconia.

Ahmed's supervisor, Dr. Ricardo Carvalho, professor in the Department of Oral Biological & Medical Sciences, explains that the project's expected outcome is to provide clinical guidance on how to modify preparation and processing of the material to improve fitting and marginal adaptation of zirconia prosthodontics.

The ACPEF notes that competition was keen, with numerous high-quality applications. Ahmed's grant application was selected for its potential impact on the specialty of prosthodontics.



Dr. Peter Walker

First Place Win in ACP Competition

Dr. Peter Walker, who is completing a Master of Science in Craniofacial Science combined with a diploma in Prosthodontics at UBC, won first place in the American College of Prosthodontists (ACP) Postdoctoral (Resident) Competition. The poster competition was held

during the ACP Annual Session in San Diego, California, from October 5 to 8, 2016.

There were 120 posters—a record number according to the ACP—entered in the competition, highlighting the scholarly activity of residents and dental students from across the United States and Canada. The poster presentations varied, covering research results, clinical outcomes, laboratory techniques and more.

Winning selections in the ACP poster competition are based on a combination of factors, including the quality of research, how it is presented by the student during the poster session, and the student's knowledge of the research topic. "I am proud of Peter's achievement," says Walker's graduate supervisor Dr. N. Dorin Ruse, professor and chair of Biomaterials. "It is well deserved!"

Walker's poster, "CAD-on' Crowns—A Fracture Mechanics Characterization," presented the results of his study to determine the interfacial fracture toughness of the interfaces in "CAD-on" crowns. These are bi-layered restorations composed of lithium disilicate veneer processed by CAD/CAM* and fused with a connecting glass to a CAD/CAM-processed Y-TZP (yttria-stabilized tetragonal zirconia polycrystal) framework. The study results suggest that the interfacial fracture toughness of the interfaces tested is limited by the fracture toughness of the connecting glass.

*computer-aided design and computer-aided manufacturing



Dr. Charis Luk

Graduate Pediatric Dentistry Student Wins Research Fellowship

The American Academy of Pediatric Dentistry (AAPD) has awarded Dr. Charis Luk, a current second-year graduate student in Pediatric Dentistry, a prestigious Sunstar/AAPD Postgraduate Research Fellowship. This fellowship program was established to promote and support innovative research by residents in pediatric dentistry. Luk was selected on a competitive basis for her ongoing graduate research project: "Effect of an Audiovisual Preoperative Intervention in Reducing Parental Anxiety Prior to a Child's Sedation Appointment."

Her research project evaluates whether viewing an instructional/informative video developed as an intervention tool can reduce anxiety for parents whose children are having their first experience with oral sedation at the UBC Graduate Pediatric Dentistry Clinic. Luk's supervisor is Dr. Kavita Mathu-Muju, an assistant professor in the Division of Pediatric Dentistry.

Luk will present her final research results at the AAPD Annual Meeting in May 2018, in Honolulu, Hawaii.

Perio Achievements



Dr. Georgios Giannelis (C), flanked by Dentistry dean Dr. Charles Shuler (L) and Dr. Hannu Larjava.



Dr. Rashi Chaturvedi

AAP Award to Perio Educator

Dr. Georgios (George) Giannelis, assistant professor and director of the graduate Periodontics program, won the American Academy of Periodontology (AAP) Award for Outstanding Teaching and Mentoring in Periodontics. This award is given to the periodontal educator, at US and Canadian institutions, who has demonstrated a commitment to excellence in providing education in the full scope of clinical periodontics and relays that enthusiasm to students. Dr. Hannu Larjava, professor and chair, Division of Periodontics and Dental Hygiene, presented the award to Giannelis during a meeting of the Department of Oral Biological & Medical Sciences on February 9, 2017. This acknowledges Giannelis's graduate-level teaching and educational transformations in the graduate program since joining the Faculty in spring 2016. He has implemented an IV sedation component into the program and increased the number of IV sedation cases. He is also known for working side by side with students, focusing on surgical skills and interaction with patients.

Top AAP Ranking for Perio Student

Dr. Rashi Chaturvedi, a second-year graduate periodontics student, has an impressive achievement regarding the American Academy of Periodontology (AAP) In-Service Examination. This spring, for a second time, she ranked in the top four percent of all graduate periodontics residents in North America (Canada and US).

The AAP's In-Service Examination is a written test that evaluates the effectiveness of periodontics programs, ranks North American periodontal residents and prepares students for the American Board of Periodontology written exam.

Kudos to the Dean's Board of Counsellors

Since Dr. Charles Shuler began as dean of UBC Dentistry in 2007, he has regularly engaged an external board of 28 members representing a strong cross-section of the professional dental community.

The dean's Board of Counsellors met twice per year, in the fall and spring, to discuss, provide outside-world feedback and advise on the Faculty's goals, strategies and many projects.

With Dr. Shuler's term as dean coming to a close, the Faculty salutes the board members, past and present, and congratulates them for their dedication and deep interest in the UBC Faculty of Dentistry over the past 10 years. Thank you to:

David Baird DMD 1980
Heather Bigger BDSc 2006 MSc 2009

Richard Busse DMD 1986
Dr. Kenneth Chow
Susan Chow DMD 1972
David Ciriani DMD 1987
Bob Coles DMD 1986
Brenda Currie Dip DH 1976 BDSc 2004 MSc 2007
Mr. Craig Dewar
Ms. Marilynne Fine
Dr. William Gaede
Mandy Hayre BDSc 1994
Ms. Christine Hibberd
Asef Karim DMD 1999 Dip Ortho 2013
Hank Klein DMD 1978
Carrie Krekoski BDSc 2010
Mark Kwon DMD 1997
Ms. Winnie Leong
Mrs. Sophia Leung CM
Dr. Jin Li-Jian
Dr. Peter Lobb
Mr. Tuomas Lokki

Mr. Hyo Maier
Ms. Heather Mohr
Ms. Patricia Noble
Mr. David Poole
Mr. Kishore Pranjivan
Thomas Roozendaal DMD 2001
Nick Seddon DMD 2006
Dr. Charles Slonecker
Robert Staschuk DMD 1989
Dr. Peter Stevenson-Moore
Margit Strobl BDSc 2008
Mr. Ron Suh
Dr. Timothy Tam
David Tobias DMD 1984
Ash Varma DMD 1983
Ms. Brenda Wisdom
Dr. William Wong
Benjamin Yeung DMD 1983
Ronald Zokol DMD 1974

Fourth-Year DMD Student Wins First Prize



Nathan Lee (R) with other student clinicians.

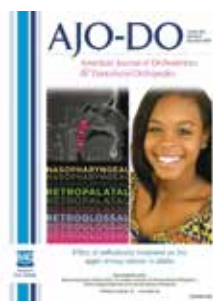
Nathan Lee, DMD 2017, is the first-place winner of the Canadian Dental Association/Dentsply Sirona Student Clinician Research Program, which provides an opportunity for one dental student from each accredited dental school in Canada to participate in a national clinical research competition. Lee won the competition with his presentation titled “Effectiveness of Cryotherapy for Oral Precancers—A Pilot Study.”

In his presentation, Lee explains that topical treatments for low-grade lesions in the oral cavity are an effective alternative to invasive treatments like surgery. His study found that cryotherapy (freezing) may be used as a first-line treatment for white, hyperkeratotic precancerous lesions, as it has less morbidity and post-operative scarring than surgical methods.

Lee’s faculty advisor was oral pathologist Dr. Catherine Poh, associate professor in the UBC Faculty of Dentistry and a scientist at the Vancouver Coastal Health Research Institute. “Nathan is a very dedicated and organized student and this award reflects his devotion and hard work for three consecutive summers,” she says. “With his acceptance to the Oral Medicine and Pathology Residency Program at UBC, he will continue his passion in research to improve outcomes for oral cancer patients.”

This year the program was held during the Ontario Dental Association Annual Spring Meeting in Toronto, from May 4 to 6, 2017.

On the Cover—Publications by Faculty and Grad Students



A recent article† by lead author Benjamin Pliska, assistant professor, Division of Orthodontics, was featured on the cover of the December 2016 issue of the *American Journal of Orthodontics and Dentofacial Orthopedics*. The article reports on the thesis project of UBC Dentistry graduate Isaac Tam, MSc Dip Ortho 2014.

The aim of this study was to examine the effects of orthodontic treatment, with and without extractions, on the anatomic characteristics of the upper airway in adults. The researchers used 3D methods (specifically cone beam computed tomography) to determine the volume and minimal cross-sectional area of the upper airway in adult patients. The paper concludes that orthodontic treatment in adults does not cause clinically significant changes to the volume or to the most constricted area of the upper airway. Results also suggest that dental extractions in conjunction with orthodontic treatment have a negligible effect on the upper airway in adults.

†Pliska BT, Tam IT, Lowe AA, Madson AM, Almeida FR. (2016). Effect of orthodontic treatment on the upper airway volume in adults. *American Journal of Orthodontics and Dentofacial Orthopedics*. doi:10.1016/j.ajodo.2016.05.013.



The cover of the March 2017 issue of *International Endodontic Journal* boasts images from Dr. Jeffery Coil’s former graduate student Agmar Schroeder, MSc Dip Endo 2014. Coil is an assistant professor and director of the graduate specialty program in Endodontics.

The micro-CT images are of before and after post space preparations of a gutta-percha obturation sample with no deviation, a GuttaCore obturation sample with no deviation, and a Therafil obturation sample with deviation.

The study concluded that deviation of post space preparation occurred significantly more often in the Therafil group than it did in the GuttaCore and gutta-percha groups.

Micro-CT imaging was performed in the Centre for High-Throughput Phenogenomics.

†Schroeder AA, Ford NL, Coil JM. (2017). Micro-computed tomography analysis of post space preparation in root canals filled with carrier-based thermoplasticized gutta-percha. *International Endodontic Journal*. doi:10.1111/iej.12618.

Indo-Canadian Dental Association Recognizes Dean



Left to right: Jane Merling, director of Development & Alumni Affairs, UBC Dentistry; Mrs. Cindy Shuler and Dr. Charles F. Shuler; Dr. Harry Dhanju; Dr. Don Anderson, president of the College of Dental Surgeons of BC; and Drs. Anil Kohli, Ajay Potluri, Jatinder Riar and Ruby Bhullar.

The Indo-Canadian Dental Association (ICDA) recognized Dr. Charles Shuler, dean of UBC Dentistry, for his contribution to the dental community. An award was presented to Shuler during the association's Inaugural Gala in Vancouver at the Pan Pacific Hotel, on March 11, 2017. The ICDA is a non-profit organization committed to promoting and raising funds for oral health care in the community. In 2016, it hosted free oral cancer screening events in Surrey, which provided screenings to more than 300 people. The gala celebrated the 2016 inception of the organization and its founding members. It also raised funds for the BC Oral Cancer Prevention Program, as well as for the UBC Dentistry Centennial Bursaries that support dental and dental hygiene students.

Leading Voice of Dental Sleep Medicine Selects UBC for Research Funding



Dr. Benjamin Pliska

The American Academy of Dental Sleep Medicine (AADSM) awarded Dr. Benjamin Pliska, assistant professor in the Department of Oral Health Sciences, a grant for \$99,900 USD from its American Sleep Medicine Foundation. Pliska, who teaches orthodontics in the UBC graduate program, researches in the areas of facial growth and development, as well as sleep medicine. The funds, disbursed over two years, will support a multi-centre, randomized, controlled trial to investigate the determinants of occlusal changes resulting from use of mandibular advancing oral appliances.

Mandibular advancing devices are increasingly popular for treating obstructive sleep apnea (OSA). They work by holding the jaw closed while moving the tongue and jaw forward, which opens the airway. Though often preferred by patients over traditional continuous positive airway pressure (CPAP) machines, there can be unwanted occlusal changes with prolonged use—lower teeth shifting forward and/or the creation of underbites, for example. To counteract these potential effects, a morning mandibular repositioning splint—a device the patient holds in his or her mouth for about an hour in the morning while preparing for the day—may be used to gently minimize any occlusal changes. The effectiveness of this splint, however, is

anecdotal; up until now, no study has been undertaken to assess whether this is an effective strategy.

The main purpose of the study is to understand how to mitigate side effects and improve appliance design. Along with measuring the actual magnitude of occlusal change, data collected will include the patients' periodontal health and their adherence to treatment plans (smart chips embedded in the appliance will monitor use).

The controlled trial will be run through UBC Dentistry's Frontier Clinical Research Centre, with co-investigator Dr. Fernanda Almeida, associate professor, Department of Oral Health Sciences, and steering committee chair of the Oral Appliance Network on Global Effectiveness (ORANGE).

OSA affects over one million Canadians and leads to significant cardiovascular and metabolic health problems, and patients with untreated OSA are at higher risk of stroke and mental health issues. The results of this trial will be widely shared to facilitate improved patient care through better appliance designs and protocols, thus reducing unwarranted side effects of OSA treatment.

CFI Funds Equipment to Test Drug Efficacy

Essential equipment to test the therapeutic effectiveness of a novel drug being developed to treat chronic inflammatory mucosal diseases is on the way to the Laboratory of Periodontal Biology. Dr. Edward Putnins, professor in the Department of Oral Biological & Medical Sciences, garnered close to \$143,000 in infrastructure investment from the more than \$50 million available nationally under the Canada Foundation for Innovation (CFI) John R. Evans Leaders Fund (JELF). In addition to the CFI funding announced on February 28, 2017, the BC Knowledge Development Fund contributed \$143,000 in matching funds.

In previous research, Putnins and his team identified that the enzyme monoamine oxidase B (MAO-B) was elevated in disease-associated

periodontal tissues and that its inhibition in animals reduced disease. However, existing MAO-B inhibitors have unwanted central nervous system side effects. To mitigate this issue, Putnins and collaborators have been developing novel MAO-B inhibitors that are anti-inflammatory but have reduced transit to the brain.

Their current research interest is in investigating whether these novel MAO-B inhibitors are a potential therapeutic for mucosal diseases such as ulcerative colitis and Crohn's disease. Experts from the Centre for Drug Research and Development (a nationally mandated Centre for Excellence in Commercialization and Research headquartered in Vancouver), two gastroenterologists, an expert in animal

modelling and an expert in drug-protein interaction are also involved in this work.

The new equipment is needed to study how these MAO-B inhibitors impact cell barrier efficiency and reduce inflammation associated with chronic inflammatory mucosal diseases. The equipment will also support study of how these inhibitors impact gene and protein expression of key regulatory proteins. Putnins stresses that this information is required to understand where this enzyme is expressed, how its expression alters with disease progression, and ultimately, how the drugs impact these processes. "These data will provide critical information needed to drive novel drug discovery forward," he says.



Dr. Edward Putnins

UBC's TLEF Supports Digital Dental Curriculum



Dr. Vincent Lee

UBC's Teaching and Learning Enhancement Fund (TLEF) awarded Dr. Vincent Lee, assistant professor in the Department of Oral Health Sciences, and co-applicants,† \$27,220 for a year-long project focused on incorporating digital technology into the DMD curriculum. "The TLEF grant will allow us to develop resources that will help in the development of the digital dental curriculum, hopefully with an improved objective assessment approach to using technology," Lee says.

The project is titled "Strengthening Students' Self-Reflective Skills and Enhancing Assessment Consistency in Restorative Dentistry Via a New Digital Dental Technology." Digital technology, specifically intraoral scanning, allows students to compare 3D renderings of their preparations to standardized preparations. While evidence in the research literature is currently

inconclusive as to the benefits of intraoral scanning in education, there is promise. There are also calls for deeper investigation of this technology in the area of restorative dentistry.

Among the intended tangible outcomes of the project, three stand out: a new digital component in the third year of the DMD program that can effectively improve students' tooth preparation skills, ultimately translating into improved clinical restorative dentistry skills; more objective and consistent learning feedback provided by the digital systems and by the instructors; and enhanced student self-reflective ability regarding tooth preparations.

†Co-applicants: Dr. Ahmed Ballo, graduate prosthodontics student; and from the Department of Oral Health Sciences: Drs. Leandra Best, clinical professor; Ross Bryant, assistant professor; Mark Fogelman, clinical associate professor; Christopher Wyatt, professor; and HsingChi von Bergmann, associate professor and senior researcher of the project.



Dr. Marcia Boyd receives the Canadian Dental Association Medal of Honour from CDA president Dr. Randall Croutze.

CDA Medal of Honour to Former Dean

Former dean and professor emeritus Dr. Marcia Boyd CM has been named the recipient of the Canadian Dental Association (CDA) Medal of Honour, considered to be the pinnacle award given by the association. It is conferred upon a dentist in recognition of a lifetime of outstanding service and professional achievement to the benefit of the dental profession, the dental community and society at large, and to which significant change can be attributed.

This honour was presented to Boyd by CDA president Dr. Randall Croutze at the President's Dinner on April 21, 2017, at the Fairmont Chateau Laurier in Ottawa, Ontario.

Online Stories Worth Clicking



Cardiac Art Competition 2017 Winners

Artodontia was founded in 2016 by Dr. Carol Ann Courneya, associate professor in the UBC Faculty of Medicine, for first-year dental students in the cardiovascular block of Dentistry's then-new Year 1 curriculum. Born out of the Faculty of Medicine's Heartfelt Images contest, Dentistry's annual cardiac art competition, though young in years, continues the long tradition of showcasing dental students' artistic conceptualization of the human heart and circulatory system. Dental students—no longer studying (and competing in art) alongside Medicine students as in previous years—wanted to continue engaging their creative side with a competition of their own.

The contest was named Artodontia in 2016 after a naming competition won by Allizon Clark, DMD 2019.

Among the many art entries in 2017, one submitted by Jamie Kim, DMD 2020, won the contest category for Artodontia's logo (pictured above).

The First Place winner for 2017 is Lily Cheung, DMD 2020, for *Heartwired*.

View, watch and hear all the cardiac art competition entries for Artodontia at bit.ly/2mtBRAY



UBC Dentistry Ranks #1 in Canada Again

For the second year in a row, UBC Dentistry is Canada's top dental school according to the latest QS World University Rankings. Of the top 50 dental schools worldwide, UBC Dentistry ranked 23rd this year. The QS ranking is assessed in four key areas—research, teaching, employability and internationalization—using six indicators: academic reputation, employer reputation, student-to-faculty ratio, citations per faculty, international faculty ratio and international student ratio.

For more information about the methodology and to compare ranking indicators for UBC Dentistry and other dental schools, visit topuniversities.com



These Pics From Puppy Day Are Melting the Internet

Brace yourself: major cuteness alert!

On March 28, 2017, UBC Dentistry Student Services and the Dental Undergraduate Society arranged for puppies to visit campus to help Dentistry students relieve stress. The puppies came from PADS (Pacific Assistance Dogs Society), a non-profit organization that trains assistance dogs for people living with disabilities, and from Trained Pups, an enterprise to "match good people with great puppies."

Check out the pictures from Puppy Day at dentistry.ubc.ca/pday

Oral Health Services: Delivered Efficiently—and In Style!

UBC Dentistry's community outreach programs now have a new cargo van and portable dental equipment for delivering oral health services to marginalized communities in the Lower Mainland and across the province.

The Ford cargo van boasts side and rear doors for ease in loading and unloading. It has a sizable cargo hold, with close to 3.7 cubic metres (130 cu. ft.) of space and capable of carrying loads of up to 750 kilograms (1,650 lbs.). This is an ideal size for the inaugural equipment configuration (with room for more to be added): the van will transport four dental chairs, each with accompanying dental systems, and a new mobile X-ray unit.

The van's small turning radius makes it the ideal urban work vehicle for travelling to, and parking at, community partnership sites such as the Abbotsford Food Bank, Ray-Cam Co-operative Centre, Richmond Hospital and Vancouver Native Health Society, as well as

long-term-care facilities serviced by the UBC Geriatric Dentistry Program. In the summer, powered by its 2.5-litre Duratec engine and six-speed automatic overdrive transmission, the van will accompany students and volunteers to the annual outreach dental clinic on the remote Tl'etinqox (Anaham) reserve, 110 kilometres west of Williams Lake.

Flexible and cost-effective to operate, this van outfitted with portable dental equipment will help grow UBC Dentistry's community outreach programs. More dental and dental hygiene students will be able to participate in treatment and education for people in need, in both curriculum-based and volunteer-based outreach rotations. This directly supports Dentistry's vision, goals and desired impact: communities in need receive essential oral health care and education, while students gain valuable off-campus clinical experience and a self-realized sense of social responsibility.

One day, as the Faculty's efforts in community outreach evolve, Dentistry's van may be joined by a bigger fleet member such as a recreational vehicle outfitted as a mobile dental clinic with dental operatories. But for now, this van is ready to press into community service 'without any stalls.'

The cargo van and all the portable dental equipment were purchased from donations by generous supporters of UBC Dentistry.



PHOTO BY TERRY WINTONYK

UBC Dentistry's new cargo van for community outreach programs, the Ford Transit XL SWB Cargo Van.



Safari SAF-3000 mobile X-ray unit (L), Aseptico ADU-17X Express II portable dental system (C) and A-dec Porta-Chair 3460 dental chair (R).

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Highlights: Research Day 2017

This year's Research Day, held on January 24, marked the 10th anniversary of the annual event and reprised the important clinical topic of implants.

The program examined how current published evidence and ongoing research is impacting implant placement and care in today's clinical practice. A diverse and dynamic group of dental and dental hygiene faculty, graduate students and distinguished alumni presented their research work and clinical perspectives.

The keynote address was delivered by Dr. David French, a 1994 UBC Dentistry alumnus in Periodontics. He presented an analysis of treatment protocols and implant failures based on a private-practice data set of close to 9,000 patients.

Other scientific presenters included: Dr. David Kennedy, clinical professor and co-clinic director of Graduate Orthodontics; Dr. Mark Kwon, DMD 1997; Dr. Dimitrios Karastathis, MSc/Dip Perio 2011; Dr. Anthony McCullagh, clinical associate professor; Ms. Penny Hatzimanolakis, BDS 2004, MSc 2009, and clinical associate professor; and Dr. George Giannelis, MSc/Dip Perio 2011, assistant professor and director of Graduate Periodontics.

The event took place in the Great Hall of the Alma Mater Society Student Nest and was well attended by faculty, students and staff.

UBC Dentistry is grateful to Hu-Friedy, Scotiabank, Sinclair Dental, Straumann, and Zimmer Biomet for supporting Research Day 2017.

How the best perform



Legacy of Compassion: A FAMILY HELPING FAMILIES



“He was a living example of ‘you have something, you should give something.’”

As students at the UBC Faculty of Dentistry, both Carter Ng, MSc/Dip Pedo 2013, and his wife Cara Yu, MSc/Dip Pedo 2019 (candidate), have treated young patients through UBC Dentistry’s Children’s Dental Program, which offers free dental services to low-income school-aged children living in the Lower Mainland.

Their experiences there left a lasting impression. They witnessed the struggle for families in the program who had been unable to pay for their children’s dental care and were now faced with much-needed treatments for often painful conditions requiring sedation. “Some of these kids are in a lot of pain, and the parents are really desperate to help them,” says Cara, who is currently completing her pediatric dentistry residency.

In 2014, inspired by these experiences, Carter and Cara decided, through a gift in their will,

to supplement the George C. Ng Special Children’s Endowment Fund, which honours Carter’s father. Becoming parents to two-year-old Charlotte had also motivated them to make plans for the future.

The fund, established after Dr. George Ng passed away in 2008, covers the cost of complex treatments, including general anaesthetic, for children whose families are facing financial hardship and who are part of the UBC Dentistry Children’s Dental Program.

“We wanted to have a lasting legacy for my dad,” says Carter. “Knowing he would have wanted to help the underserved in the community, we felt this was the best way to honour him after his passing.”

“It’s been really nice to see some of the monies from the fund actually helping families out,” Cara says.

The late George C. Ng, who was also a pediatric dentist, was passionate about giving back to his profession and his community. Those who knew him remember a kind-hearted man who championed access to dental care for families in need.

“He always had a calling, which was to reach out to the public to raise awareness about health and dentistry,” says Carter. “Dad was always advocating for oral health for children.”

And, Carter says, “Even though he was never a student here, he loved UBC. He was a strong supporter of starting the graduate pediatric dental program.”

“He was a living example of ‘you have something, you should give something,’” adds Cara. “That’s the way we’d like to live our lives—and now we have someone else in our life to bring up in that same spirit.”

HOW TO BUILD A LEGACY USING YOUR EXISTING DENTAL PRACTICE*

A legacy at the University of British Columbia is more than a gift. A legacy is an opportunity to create something that will have a lasting impact on the lives of students, faculty and your community.

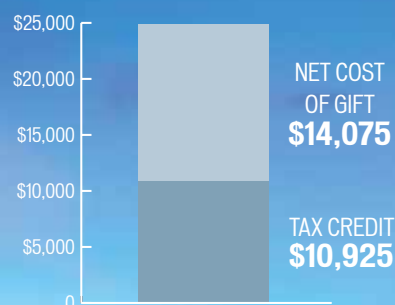
Giving Costs Less Than You Think

Start your legacy to the UBC Faculty of Dentistry today with a gift from the proceeds of the sale of your dental practice. The sale of your dental practice will be one of the largest taxable transactions of your life. Tax savings, while likely not the major incentive for supporting the Faculty, should not be overlooked when contemplating what size of gift might be possible.

The federal and provincial governments provide generous tax incentives to encourage individuals to support institutions like UBC, but most donors greatly underestimate the true value of these savings. This is partly due to the fact that these credits are calculated separately and not shown as one total amount on an individual's tax return. But in actuality, the combined federal and BC tax credits for charitable donations above \$200 reduce the cost of a donor gift by 43.7% or more.

Let's look at the tax consequences of a dentist using \$25,000 from the sale of his or her practice to make a charitable donation. If that dentist makes a \$25,000 gift in 2017, then she or he will pay \$10,925 less in tax ($\$25,000 \times 43.7\%$) when filing the tax return in early 2018.

Cost of a \$25,000 Gift



Use Your Will to Create Your Legacy

Many of our donors like to leave a gift to UBC Dentistry in their will. You may decide to give cash, a percentage of your estate, or the proceeds (or a portion of the proceeds) from the sale of your dental practice upon your death. To create a legacy in your will, your lawyer simply prepares a new will or adds a codicil to an existing will.

Benefits of leaving a portion of the proceeds of sale in your will:

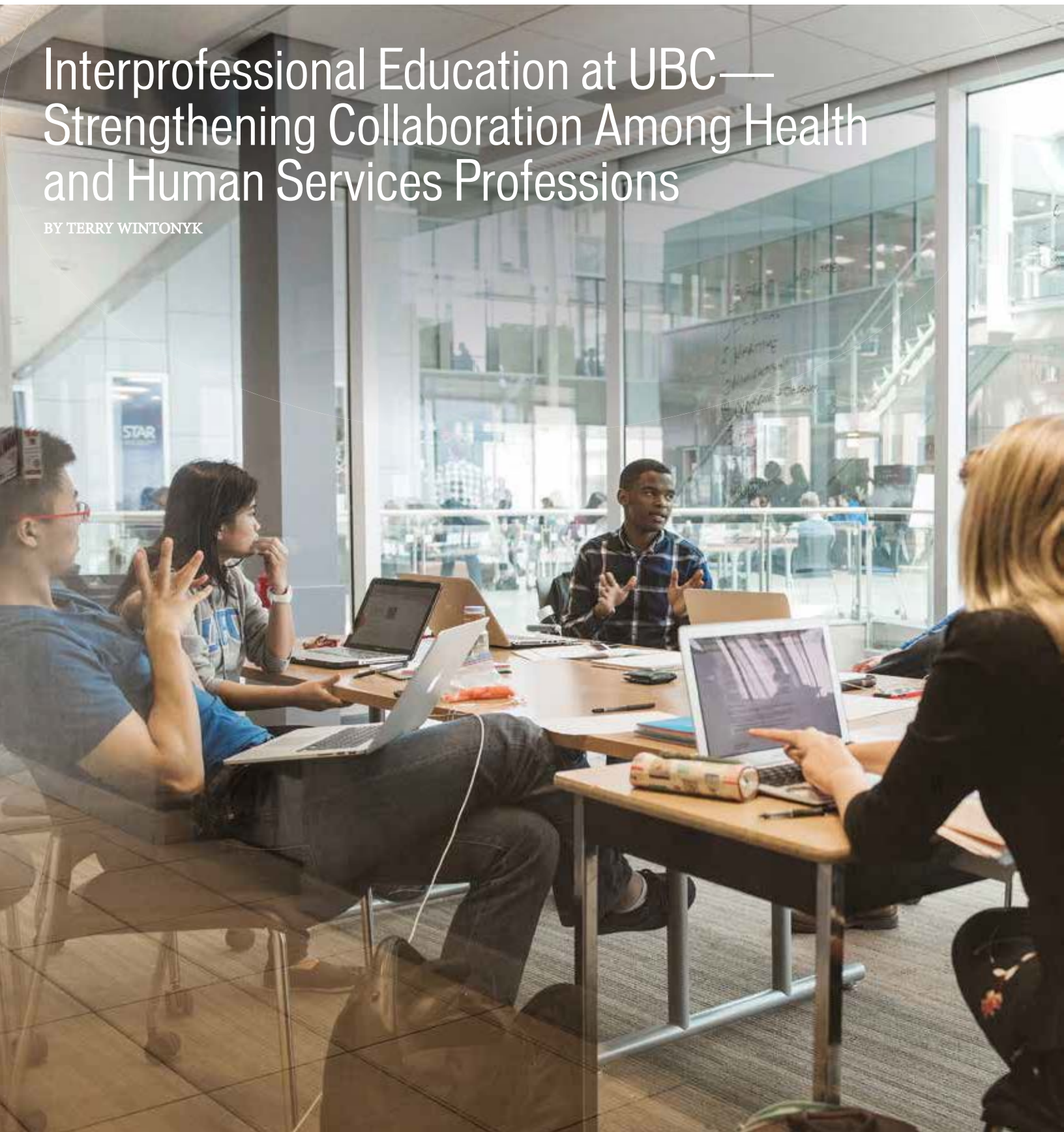
- it costs nothing to name a bequest in your will, yet allows you to support something you care about
- you retain control and use of your practice and other assets during your lifetime
- your estate receives a donation receipt for the value of your gift, which can substantially reduce or even eliminate any taxes owing at the time of your death

*This information is for general information purposes only and is not intended to be legal or tax advice. Readers should consult with their own tax and legal advisers with respect to their particular circumstances before taking any action based upon the information contained in this article.

Interested to learn more about wills and estates, including how to make a gift in your will to support UBC Dentistry? For more information, contact Jane Merling, director of Development & Alumni Affairs at 604-822-5886 or merling@dentistry.ubc.ca

Interprofessional Education at UBC— Strengthening Collaboration Among Health and Human Services Professions

BY TERRY WINTONYK



Faintly flickering as a concept in the 1960s, interprofessional education (IPE) today blinks loud and clear on the radar screens of health-related entities—professionally and academically, nationally and globally.

As coined by the World Health Organization (WHO), interprofessional education occurs “when two or more professions learn with, from and about each other to improve collaboration and the quality of care.” This definition is ubiquitous, found word-for-word throughout health-related communications, policy documents, journals and other institutional writings. The WHO sees IPE as a necessary step in preparing a “collaborative practice-ready” health workforce that is better prepared to respond to local health needs and help alleviate the dearth of capital and human resources that hinders delivery of care in health systems worldwide.

In Canada, Roy Romanow’s 2002 report for the Commission on the Future of Health Care in Canada stated: “If health care providers are expected to work together and share expertise in a team environment, it makes sense that their education and training should prepare them for this type of working arrangement.” Recommendation 17 of the report states: “The Health Council of Canada [closed in 2013 by the then federal government] should review existing education and training programs and provide recommendations to the provinces and territories on more integrated education programs for preparing health care providers, particularly for primary health settings.”

Today, the Commission on Dental Accreditation of Canada requires elements of interprofessional education to be offered to dental and dental hygiene students wherever other health science programs exist. At the University of British Columbia, the faculties of Applied Science, Arts, Education, Land and Food Systems, Medicine, and Pharmaceutical Sciences all exist alongside the Faculty of Dentistry.

Through UBC Health, a dedicated group of faculty and staff from across the university collaborate to develop and implement integrated curricula based on common learning, as well as interprofessional education activities for the health-profession programs.

“Systemically, the whole human body is linked, and so we should be bringing the various health disciplines together to collaborate on best practices as members of a holistic health care team,” says Prof. Zul Kanji, director of the Dental Hygiene Degree Program and chair of the UBC Health Curriculum Committee for 2016-2017. The committee provides leadership for issues and initiatives related to theory and practise-based interprofessional education. Kanji points to the overarching goal of UBC’s interprofessional education: to foster and graduate collaborative health care practitioners, ultimately aiming to improve health outcomes for the public.

Historically, dentists and dental hygienists, who specialize in care of the mouth, have worked in isolation from the physicians, nurses, physiotherapists, dietitians and others who specialize in other body systems. However, says Kanji, as research sheds more light on the connection between oral health and systemic health, it makes absolute sense to integrate dental and dental hygiene students with other health-profession students.

Through IPE, dental and dental hygiene students not only learn more about other health care areas, but they gain a much deeper understanding of their own role and how it relates to the entire human body. They also become “in-the-field” advocates for the oral health profession, educating those in the other health professions about the significance of

oral health and its relation to systemic health.

At UBC, interprofessional education is structured in two ways: as elective activities outside respective curricula, and in just the last year, as activities embedded in curriculum shared across the health and human services programs.



Zul Kanji

Electives Outside the Curriculum

The Interprofessional Education (IPE) Passport program operates outside curricula. Students in UBC’s various health and human service programs either partake in a specified number of IPE Passport activities, or they earn a predetermined number of points for taking part in IPE Passport activities. Individual students track their elective IPE activities online under two streams: Exposure-Level Learning Objectives and Immersion-Level Learning Objectives.

Exposure-level activities are typically one-time sessions where junior students gain a deeper understanding of their own profession while gaining a preliminary appreciation of different world views and the roles other professions play. For example, students may meet for one interprofessional session to collaborate around topics such as eating, feeding and dysphagia (difficulty swallowing). A panel of practising health care professionals, ranging from



UBC Health: A partnership of 12 UBC health and human service academic programs

Audiology & Speech Sciences

Dental Hygiene

Dentistry

Dietetics

Genetic Counselling

Medicine

Midwifery

Nursing

Pharmacy

Physical Therapy

Occupational Therapy

Social Work

occupational therapists and speech therapists to nurses and dental hygienists, interacts with the students to help them examine the various professionals' roles on a health care team. This includes discussions about shared decision-making, role clarification and team functioning.

Immersion-level activities, aimed at senior students, are extended IPE experiences—up to 16 weeks—that require active performance and contribution. The students learn about the strengths and limitations of their profession, and their ways of thinking and interacting with others are challenged. The desired outcome is for learners to acquire an interprofessional world view that incorporates multiple perspectives and accepts and encourages the contributions of others. The long-running UBC Interprofessional Health Mentors Program is an immersion-level activity, as is the newer Nutrition and Oral Health Resources Development activity (see more later in this article).

Embedding a Shared Curriculum

Shared Curriculum in the Faculty of Dentistry

Within the Faculty of Dentistry at UBC, the Doctor of Dental Medicine (DMD) and dental hygiene undergraduate programs have identified common areas of learning, and now the two cohorts come together to study these topics. The integrated curricular topics include clinical ergonomics, local anaesthesia, head and neck anatomy (lectures, prosections and cadaver-dissection lab sessions), social determinants of health, addiction medicine, gender diversity, and Indigenous health cultural competency.

In addition to these interactive classroom and

laboratory sessions, students from both programs have been paired in the clinical-practice setting to build their roles as co-therapists during the process of care. Such integration helps students recognize the commonalities between the two oral health professions and become familiar with each other's scope of practice; it also fosters collaborative-practice behaviours post-graduation.



Shared Curriculum Across UBC Health Programs

Studying ethics is common to all the health professions. However, all the health professions studying ethics together is not so common—until now at UBC. Integrated Ethics (iEthics), the first topic of common learning to be embedded in the integrated curricula across the health and human services programs, was launched in fall 2015. Comprised of 12 hours of integrated online and onsite learning, iEthics is meant to complement, or build upon, professions-specific ethics learning. By their graduating year, all health-profession students will have studied ethical decision-making together.

In their junior years, health and human

services students learn the ethical principles that are specific to their own professions—each of the professions have their own code-of-ethics documents. As the iEthics curriculum begins, students from various health and human services disciplines get together to compare and contrast each other's code-of-ethics documents. In doing so, they learn how similar ethical guidelines are among all the health care professions.

As students progress through their education, they come together to apply their ethical principles to simulated cases they might encounter as members of a health care team. Informed consent, electronic documentation management, confidentiality and anonymity, and moral distress (distress that may arise when one has a conflicted view of the ethically appropriate action to take)—these are issues that span across all the professions, Kanji explains. And, while the task at hand is for students to work through the ethics cases together, he emphasizes that the shared decision-making process is what helps students gain a broader recognition of their and others' roles on a health care team.

Dr. Leandra Best, associate dean, Academic Affairs, and Dentistry's representative on the iEthics Curriculum Working Group, states that the iEthics curriculum model is intended to serve as a template for other common IPE topics in the health science programs. Best and a team of colleagues in Dentistry, Pharmaceutical Sciences and Physical Therapy have initiated and are implementing other IPE learning activities with their students in the current academic year. These include the use of inquiry-based cases and hands-on neuroscience laboratory activities. Additionally, E-health and Indigenous Health Cultural Competency are two modules that will soon be embedded into the respective curricula of the UBC health disciplines.

Student and faculty feedback is being sought to ensure that such experiential learning activities are relevant and meaningful.



Shaping the Future

The long-term intended outcome, Kanji admits, is to inform positive change in the health care system. "When we have students learning together from the ground up—learning and appreciating everyone's role in a health care team—then it will seem normal to practise that way. And it will seem abnormal or impractical to practise the way we currently do—which, in the case of many health professions, including oral health care practice environments, has traditionally been in our discipline-specific silos." Kanji is hopeful that this groundwork of an integrated curriculum and the concomitant benefits of its IPE learning experiences will pay off in how the health and human services professions work together in the future to benefit society.

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IPE Electives at UBC Dentistry

Interprofessional Health Mentors Program

The UBC Interprofessional Health Mentors Program is a unique educational experience in which groups of students from different disciplines learn together from, and with, mentors. Health mentors may be adult patients/clients with chronic conditions and/or disabilities, or they may be caregivers who provide long-term care to loved ones. Mentors are "experts" in their own lives, and they help students learn how health care providers can give support.

Kerri-Lyn Chong, DMD 2018 candidate, when in her first year, was one of 20 dental students who participated in the Health Mentors Program. In her group of four, she was matched with a nursing student, an occupational therapy student and a pharmacy student. The group met with their mentor, a young woman with multiple sclerosis, twice a semester over the course of the 16-month program.

The long-term benefits to the oral health

professions are apparent to Kerri-Lyn. When asked what she thought the other students learned by having a dental student in the group, she said: “They didn’t realize before then that dental health can affect overall health—that the oral environment can be an indicator of systemic health.” The other students came to recognize that some larger health problems could initially be detected at regular dental and dental hygiene appointments. “Students in the other professions saw that dentists and dental hygienists could be part of the team, not just an outlier who only takes care of the teeth,” she says.

What did Kerri-Lyn learn from the other students? “I saw that the professions are more open-minded than one would think and that everyone is in a silo—traditionally, you see that in education and practice. But when you are in a group with all the other students for over a year, you see that everyone is trying to reach out to help the patient.”

Breaking out of one’s health-care-field bubble and into the realm of patient-centred care was a core outcome for Kerri-Lyn, who recommends the program for all students. “You understand how the different health care fields approach the patient, and that opens your mind to the idea that there is no one right way to treat a patient.”



Kerri-Lyn Chong (R) shares a moment with Janet Cawley, her health mentor.

Nutrition and Oral Health Resources Development

This innovative IPE project was inspired by SuperChefs Cookery for Kids founder Dr. Greg Chang, DMD 1986. Chang wanted to work with the distinct perspectives of dental hygiene students and dietetics students from the Faculty of Land and Food Systems to develop an interprofessional educational activity. Initiated by Dr. Leeann Donnelly, assistant professor in the Department of Oral Biological & Medical Sciences, the project resulted in the publication of consumer articles that link nutrition with oral health.

Over the course of 15 hours, in four face-to-face meetings, the two groups—each with two dental hygiene students and two dietetics students—collaborated to write recipes for *ChopChop*, a quarterly, fun, family magazine about food, nutrition and health. The magazine is used by pediatricians, hospitals, schools and community organization in the United States. This was the first oral health component in the publication. (Read *ChopChop* online at www.chopchopmag.org/magazine.)

The project was launched under the aegis of the IPE Passport program in the spring 2016 semester. Donnelly, whose teaching area includes community service learning, says the interprofessional learning that students experienced in the program was explicit.

“The project started with each learner describing their profession and how they envision their role in the project,” she explains. “Conflict resolution skills—crucial in the real world of team-based professionals—were central to the experience in order to produce a balanced deliverable that took into consideration the expertise brought by each discipline.”

Donnelly and her counterpart in Land and Food Systems, Dr. Gail Hammond, are proud of the outcome: outstanding, easy-to-follow recipes designed for both general and oral health, which are now used by their individual professions, patients and allied health care professionals on a large scale. The IPE activity is now in its second year.

Each year, at the end of the project, success is celebrated with SuperChefs Cookery for Kids. The IPE student groups, faculty and children from a local elementary school assemble at UBC for cooking demonstrations and student presentations. Watch the 2016 event online at bit.ly/2b7tKGM and the 2017 event at bit.ly/2mR0Jrv.

Chang, Donnelly and Hammond won UBC Health’s 2016 Practice Education Team Award for this innovative interprofessional education project. Read about this award on page 7.



Dental hygiene students and dietetics students celebrate their interprofessional educational activity.

Dental Hygiene Students Deliver Campus-Wide Oral Health Campaign

How did 13 dental hygiene students,* on their own initiative, support the UBC community's oral and overall health? They organized Brush Up Your Health 2017, a campus-wide oral health promotion campaign. On March 16, the dental hygiene students set up table-clinic stations at key locations on campus, where they interacted with students, faculty and staff to deliver messages about the importance of oral health, oral self-care and nutrition. They also provided information about the dental hygiene profession and UBC Dentistry's dental hygiene program.

The initiative was the impetus of third-year students Alison Ashworth and Yolanda Lan, who began by meeting with a representative in the UBC Office of the President to discuss their plans and raise awareness. Soon after this meeting, and well before the campaign day, Ashworth and Lan and the other students, from all four years of the Dental Hygiene Degree Program, began to work diligently on their messages, displays and activities under the guidance of professors Zul Kanji and Diana Lin.

The table clinics had to be interactive and fun, informative and relevant to the target audiences in four high-traffic campus locations: the UBC Alma Mater Society (AMS) Student Nest, the UBC Recreation BirdCoop Fitness Centre and the commons blocks of Place Vanier and Totem Park student residences.



Leanne Lee and Ashley Chicote at the UBC Alma Mater Society Student Nest.



Visitors stop by to learn about oral self-care and nutrition at the Brush Up Your Health table-clinic station located in the UBC Recreation BirdCoop Fitness Centre.

two weeks before the scheduled day, while #brushupyourhealth stirred up a buzz on Twitter and Facebook. Right from the start these budding oral health professionals demonstrated tenacity, commitment and marketing savvy.

Activities befitting a station at a fitness-centre location included games that showed the significant quantity of sugar in popular energy drinks and protein bars. Ashworth posted reports online of the fun visitors to the station had trying to guess the sugar content of popular foods and drinks, often working in small teams to identify which food items had the least to greatest sugar content. The dental hygiene students also informed visitors about the potential negative side effects of acid exposure from frequent snacking. "Participants asked a variety of questions about sugar and acid, and were surprised at the impact these have on oral health," Ashworth says. "And they were appreciative of our information and prizes." Toothpaste and toothbrushes, provided through donations from UBC Dentistry, Colgate and Sunstar, were given out to support UBC students' oral health.

The table clinic at the AMS Student Nest was specifically geared to raise awareness about the Dental Hygiene Degree Program (DHDP). Table-clinic volunteers introduced the DHDP curriculum and outlined the areas of responsibility in the dental hygiene profession. According to Lan, many people gained new knowledge about the types of practice settings in which dental hygienists can work, such as

public health, research, administration and education, as well as clinical practice. She says they were also "awed" by photos showing the variety of experiences, from individual to international, that are available to UBC's dental hygiene students. Lan and her fellow volunteers encouraged participants to ask questions related to dental hygiene; the majority asked for personal self-care advice.

As a result of Brush Up Your Health and the awareness it raised about the importance of oral health, the UBC Sociology Student Club incorporated oral health products in "de-stress" packages they put together for an initiative of their own.

The Brush Up Your Health campaign was supported by a \$500 student-member grant from the British Columbia Dental Hygienists' Association (BCDHA) for student-led projects to increase awareness of the profession. "It was a great initiative to support students in improving their oral health knowledge and increase awareness and visibility of our program on campus," Lan says. She and her classmates are thrilled at the success of the day, as is the BCDHA. Funding from the association has already been approved for Brush Up Your Health 2018. Zul Kanji, director of UBC's dental hygiene degree program, says: "We are extremely proud to see our dental hygiene students take the initiative to engage with their professional association and with members of the UBC community to advocate for oral health and for their profession."

*Dental hygiene students who volunteered with Brush Up Your Health were: Navdeep Johal and Teresa Xiong from fourth year; Alison Ashworth, Jessie Cho, Nouran El-Bulkiny, Yolanda Lan and Jackie Tong from third year; Leanne Lee and Natalie Leung from second year; and Yara Abou Fayeh, Ashley Chicote, Jessica Davis and Sukhman Gill from first year.



The Brush Up Your Health team poses in front of their displays before the March 16 event day. Top row from left to right: Jessie Cho, Sukhman Gill, Yara Abou Fayeh, Ashley Chicote, Teresa Xiong and Yolanda Lan. Bottom row from left to right: Alison Ashworth, Nouran El-Bulkiny, Jessica Davis and Jackie Tong. Missing from the team photo: Navdeep Johal, Leanne Lee and Natalie Leung.



Jessie Cho and Sukhman Gill at a table-clinic station located at Place Vanier Residence.



Dr. Siddharth Vora

Dentistry as Science and Art— And a Quest to Decipher Genetic Influences on Craniofacial Conditions

BY MARK WITTEN

What could be more central to a child's or an adult's identity than the distinctive features and contours of his or her face?

Dr. Siddharth (Sid) Vora wants to know more about what happens when the middle of a child's face develops and grows more slowly than the rest of the face. The condition is known as midface hypoplasia and can have potentially long-lasting effects on the health and visual appearance of an individual. The upper jaw and cheekbones do not grow at pace with the rest of the face, giving the face a concave appearance. The upper teeth don't meet the lower teeth correctly, resulting in an underbite, making the lower jaw protrude or stick out more than usual. In severe cases, chewing, speech and even breathing can be impaired.

As a clinician-scientist, Vora is also interested in how human genetics allows for infinite variations in facial construction. He would like to learn how genes play a critical role in craniofacial growth and an individual's response to craniofacial orthopaedic treatments. Such knowledge could potentially help to improve the timing and effectiveness of corrective treatments for midface underdevelopment in patients. "The genetic aspects of craniofacial conditions, like midface hypoplasia, are as yet poorly

understood, and it's time to fill in the blanks," says Vora, who joined UBC Dentistry's Department of Oral Health Sciences as an assistant professor in the Division of Orthodontics in the fall of 2016.

His current research at UBC and previous research at the University of Washington (UW) in Seattle aims to build a comprehensive understanding of craniofacial growth and development, with a focus on understanding the genetic, epigenetic, morphological and molecular factors that control midface growth. He uses advanced genetic analysis techniques and high-resolution 3D micro-CT scanning, along with geometric morphometric techniques, to provide new insights and information about the underlying processes that contribute to midface growth underdevelopment.

Vora was attracted to UBC Dentistry because of its research-intensive environment and the presence of senior faculty members with similar research interests. Dr. Virginia Diewert and Dr. Joy Richman are world-leading scientists in the fields of craniofacial development and Dr. Ed Yen is a leading

researcher in the area of bone physiology. "Virginia Diewert has done extensive work to increase our understanding of prenatal and postnatal growth of the human cranium. Any good textbook in the field of embryology has her images in it. The complementary nature of Joy's research makes for a good collaboration, and she has already been a mentor in sharing her in-depth knowledge and expertise," he says. Vora also looks forward to potential collaborations with colleagues Dr. Fernanda Almeida and Dr. Ben Pliska, who study many aspects of sleep apnea, including craniofacial features of affected patients.

Another drawing card is the university's major investment in leading-edge research facilities, such as the \$9.4-million UBC Centre for High-Throughput Phenogenomics (CHTP) headed by Dr. Nancy Ford. This advanced imaging facility is open to UBC Dentistry researchers and others from a variety of fields for interdisciplinary research projects. "The CHTP is where I hope to develop and execute my projects, as it offers state-of-the-art facilities, equipment and expertise. You can't find that everywhere and access to such a centre is very valuable," he says.

PHOTO BY MARTIN DEE



Schematics of the human craniofacial skeleton—(A) intact and (B, C) disarticulated—showing sites of bone apposition (+) and resorption (-). Apposition (growth) is found at sutures (lines of junction or an immovable joint between two bones) bordering the facial bones (B, C) as well as the cranial base (C). The arrow indicates the resultant downward direction of growth of the midfacial region.

Growing up in Mumbai, India, Vora wanted to be either an architect or a dentist. His mother was a science teacher; and in high school biology courses, he was fascinated by basic questions like: how do small heart cells know what to do to keep blood pumping through the heart? Dentistry ultimately appealed because “many patients are driven by a desire to have a better aesthetic appearance, so when you step back from it, dentistry really is a combination of an art form and a science aimed at delivering what is best for the patient.”

Vora graduated from the Nair Hospital Dental College, University of Mumbai, in 2002.

“It was old-school, regimented training and things had to be done a certain way. We’d sit for hours and carve out teeth from wax. If you didn’t do it perfectly, they’d toss the teeth out and you’d have to start again. The school’s approach was, ‘know your stuff and be prepared for the real world,’” recalls Vora, who enjoyed treating dental patients during his internship but wanted more advanced, in-depth biology training.

From 2003 to 2009, while completing his PhD at Boston University, Vora learned how to do hard-core, basic science in the research lab of Dr. Philip Trackman, a professor of Periodontology and Oral Biology, and professor in the Department of Molecular and Cell Biology. Vora’s research focused on investigating the role of the molecule lysyl oxidase propeptide (LOX-PP). While revealing the molecule’s role in proliferating and differentiating osteoblasts (bone-forming

cells), the researchers found that LOX-PP helps prevent tumour growth and metastasis. “Our team showed that the molecule’s anti-cancer properties were effective against prostate cancer and breast cancer cells,” says Vora, who earned the SDM (School of Dental Medicine) Dean’s Award for his work on the molecule’s role in regulating bone formation.

The five-plus years Vora spent investigating the different properties of a single molecule in Trackman’s lab was a bench-science boot camp, which prepared him to become a clinician-scientist. “It was a completely different world that gave me focused, in-depth training in genetics and in molecular and cell biology. Trackman’s approach to scientific problems was very methodical. From him, I learned how systematic and meticulous one has to be when trying to answer scientific questions.”

Vora missed interacting with dental patients, however, and chose to pursue orthodontics at the University of Washington, earning an MSc in Dentistry and a Certificate in Orthodontics in 2013. “I wanted to get back into dentistry, where you are interacting with patients and making real-time changes in their daily life. And orthodontists rely on wire-bending, which I love, to move teeth within bone—a biological system. So it’s a perfect fit.”

At UW School of Dentistry, which has one of the oldest and most prestigious orthodontics programs in the US, Vora was able to pursue his specialty clinical training and related research at the same time. For his master’s thesis project, he developed a new model for

orthodontic tooth movement in mice. “One of the biggest challenges was the small size of the mouse and the delicate handling required. I was able to create a tiny stainless steel appliance for moving teeth. The method had the sensitivity to accurately measure small differences in tooth movement in genetically distinct strains of mice,” he explains. Vora believes that knowing more about how specific genes and proteins affect tooth movement will help explain how individuals vary in their response to orthodontic forces, which will enable tailoring of treatment in the future. This type of preclinical tooth movement model could also be applied to test the effectiveness of certain promising drugs to reduce orthodontic relapse.

As an orthodontic resident, Vora also displayed his artistic flair and technical proficiency by winning the UW dental school’s annual Orthodontics Wire Sculpture contest. Using orthodontic materials such as wires, elastic chains and headgears, he created a dazzling sculpture of a dragon whose wings ripple when they are fanned. “I was playing with headgear, an orthodontic appliance made of heavy wire. I bent two headgears and interlinked them together, and as I worked on it through the night, it morphed into a dragon.”

Before coming to UBC Dentistry in 2016, Vora was a senior fellow at the Seattle Children’s Hospital Research Institute, while also lecturing at UW and practising part-time as an orthodontist. With a fellowship from the American Association of Orthodontists Foundation, he worked in the lab of

craniofacial researcher Dr. Timothy Cox, investigating genes potentially involved in midface deficiencies in mice and humans. His research uncovered strong associations between deficits in the cranial base and midface growth. (The cranial base is the floor of the cranial cavity that separates the brain from facial structures.) "I found that the cranial base deficits are influencing the growth of the middle of the face, and these findings support the central role of the cranial base and its integration with facial growth," he explains.

At UBC Dentistry, Vora hopes to build on these findings by studying different genetic strains of mice with mild and severe forms of midface hypoplasia. He's also investigating the relationship of the midface to the cranial base in pediatric patients, using CBCT (cone beam computed tomography) scans as a measurement tool. (Dental cone beam CT is a special type of X-ray equipment that produces 3D images of a dental patient's teeth and bone in a single scan.) "Our preliminary data suggest that children with early cessation of cranial base development show a retracted upper jaw."

While current treatments are effective for a majority of patients with midface hypoplasia, Vora points out that many patients fail to respond to treatment: "When a nine-year-old child wears headgear for 12 hours at night for a year and it doesn't work, that sticks in your mind. Research can give us more knowledge about treatment effects and how to improve treatments so all patients benefit." Vora wants to do studies to compare

and evaluate the effectiveness of different treatment protocols for midface hypoplasia in both humans and animal models, with the goal of learning which treatments work best for which groups of patients. "Given the vast number of patients who undergo or need these orthopaedic procedures, the evidence in the current literature for the effectiveness of these procedures is poor," he says.

No two human faces are exactly the same (even those of identical twins) and each person's face develops in its own way. Vora aims to help personalize the diagnosis and treatment of craniofacial conditions for dental patients through his ambitious, cutting-edge research. "I see a future where orthodontists will use a combination of genetic profiling and 3D imaging for diagnosis and planning treatments that are more personalized and evidence-based. Such tools and knowledge will help us decide when to start treatment, what appliances to use and how to predict the outcome in a more accurate way."



Curriculum Rx: Teaching Dental Students to Adapt and Be Critical Thinkers

Sid Vora is enthusiastic about participating in the Faculty of Dentistry's ongoing curriculum renewal initiative. As a new Faculty member in the early stages of his career as a clinician-scientist, he is eager to contribute fresh ideas and innovative approaches for both undergraduate and graduate orthodontic education, to better integrate current and future clinical practice with biological paradigms. "It's exciting to be part of curriculum change. I recently made the transition from receiving knowledge to imparting knowledge. This gives me an interesting perspective," he says.

As a research-intensive school, UBC Dentistry gives students ample opportunities to be interested and involved in research. Vora believes the ability to apply new knowledge from research into clinical practice will be vital for future dentists and orthodontists. "In the field of orthodontics and craniofacial orthopaedics, we can now access and apply advances in robotics-assisted treatment methods, 3D imaging, molecular diagnosis and genetics in our daily practises. Future clinicians will have to adapt to changing technologies, something our students need to focus on during their training here at UBC."

Dental education should prepare students to evaluate new tools and techniques with an open yet critical mind. "Students need to be well trained in the fundamentals of orthodontics. Beyond that, education should be about trying to guide self-learning. There's so much information on the Internet now. As educators, helping to make students critical thinkers, to help them navigate this information, is the way to go," he says.

Such skills will be essential for clinicians in making the best decisions about whether and when to adapt a new technique or treatment. "The way that you do things as a clinician changes over time. If you're not trained to adapt, you might be missing out on more relevant techniques and treatments. Or, you might adopt a new technique too quickly, without understanding its implications. You have to be able to evaluate," Vora says. "Critical analysis is more important for today's and tomorrow's clinicians than memorization or following instructions. That's an aspect I would like to promote in the new curriculum."

Dental Hygiene Students Welcomed in Vietnam a Second Time



One morning last December, Alyssa Barnsley and Iris Lin found themselves in a cancer ward, 11,753 kilometres from home. The two dental hygiene students, both in their fourth year, participated in a volunteer student elective to Vietnam—the second such trip since 2015. They were accompanied by Sherry Priebe, BDSc (DH) 2003, MSc 2009, and Dr. Denise Laronde, associate professor in the Department of Oral Biological & Medical Sciences.

Read on as Alyssa and Iris share their life-changing experience.

The UBC Dental Hygiene international service learning initiative in Vietnam was truly an experience that opened our eyes to the possibilities around us and the change we can effect in our roles as dental hygienists and global citizens.

Some of our most resonating moments occurred in the Ho Chi Minh City Oncology Hospital patient wards. We were struck by the advanced stages of cancer we witnessed, and the crippling impact on patients' quality of life. The fact that the late-stage diagnosis of oral

cancer is a huge contributor to poor prognosis and mortality was made very clear, raising important questions of: why, and what could be done to catch the disease earlier? These concerns were shared by the local health professionals who dedicate their time, effort and skills to fighting the disease, and by those who readily answer the call for greater preventive efforts in disease management and health promotion.

Faculty leader Sherry Priebe completed her master's research in Vietnam, studying the impact of patient habits and risk factors on oral squamous cell carcinoma. Her research showed that oral cancer risk factors such as betel quid (for females), tobacco and alcohol (for males) use were prevalent habits among Vietnamese oral cancer patients. From our time spent in Ho Chi Minh City, we noticed that a high proportion of the population smokes. The smoking regulations are much more lenient than in Canada, and smoking is permitted indoors.

Dr. Denise Laronde, who teaches oral pathology at UBC, has collaborated with

professors, oral pathologists and dentists from the Ho Chi Minh City University of Medicine and Pharmacology, the National Hospital of Odonto-Stomatology and the Oncology Hospital, to implement a pilot survey aimed at learning more about the oral cancer knowledge of Vietnamese dental professionals. Laronde, whose research areas include oral cancer screening, risk prediction, adjunctive screening devices, access to care issues associated with oral health and cancer screening, and head and neck cancer survivorship, is the principal investigator of the study.

The survey assessed dental-professional participants' knowledge of oral cancer and oral cancer screening prior to, and following, a lecture on the topic: this was measured by pre- and post-tests. We were honoured to have played a central role in this project by delivering the lectures on oral cancer. Two of the audiences included in the survey were students (dentistry and dental nursing) and required verbal translation of the lecture. Working with a translator while giving a presentation added another unique learning opportunity to our experience.

As students, being part of a pilot survey was an incredible opportunity to explore the world of research and the importance of gathering data at the ground level. Not only did we experience the forethought and planning required to organize implementation of the survey, but we gained an appreciation for the increased coordination required for an international partnership.

This project may not only contribute to the development of oral cancer education in Vietnam and inform decisions on triage and referral, but it could also strengthen international partnerships and promote mutual learning and sharing of information across borders, cultures and professions.



Watch a video produced by Alyssa Barnsley and Iris Lin about their experience in Vietnam, and view their poster presentation at bit.ly/2sMeGXc

Read about the first volunteer student trip to Vietnam by dental hygiene students in 2015 at bit.ly/2t42qAD

Sharing Smiles Day

Second-year dental student Michael Frew was one of 30 students who took part in a fun-filled day at the Richmond Centre for Disability (RCD).*

Read on for Michael's account of the day.



Sharing Smiles Day student organizers from left to right: Kerri-Lyn Chong, Michael Frew, Andrea Szeto, Emma Marler, Kimberly Paterson and Brian Lee.

The energy was infectious and smiles were beaming from ear to ear at the inaugural Sharing Smiles Day on the west coast. The event, presented through the Vancouver chapter of Oral Health, Total Health (OHTH), a federal non-profit organization, was hosted by students from UBC Dentistry at the Richmond Centre for Disability on Saturday, March 4, 2017.

The goal of the event was to break down barriers between the dental community and the disability community and to further the organization's mission to advocate, educate and improve oral health care for people with special needs.

Everyone started the day wearing their brand new Sharing Smiles Day T-shirts. RCD participants were buddied up with dental and dental hygiene student volunteers, and the newly formed pairs had a chance to get to know each other over coffee and donuts before engaging in the fun-filled activities that were held throughout the morning.

Participants were able to channel their favourite NHL hockey player as they took their best shots

at scoring at the hockey-shoot station, while others attempted to score points at the beanbag toss. The dental trivia station had everyone learning fun new facts about dentistry, while the oral hygiene station educated participants about the importance of maintaining good oral hygiene, using interactive props to demonstrate proper techniques.

The most popular station of the morning was the colouring station, where participants and volunteers got to express their artistic sides, colouring in dental-themed drawings and creating their own masterpieces.

After a delicious pizza lunch, participants were broken up into small groups and given live oral hygiene demonstrations by graduate students from UBC and a volunteer dental hygienist. The participants were shown the proper technique for brushing their teeth and given helpful adaptations if needed.

Throughout the day, there was also an interactive Sharing Smiles Day photo booth. Everyone could show off their goofy side by

dressing up in silly costumes, then posing for photos to remember the incredible day.

At the end of the day, you could see the bonds that had been formed between the RCD participants and dental volunteers. Everyone came away from the event with some new-found knowledge and a smile on their face.

Thank you to all the participants, volunteers and sponsors (Colgate-Palmolive Canada Inc., PDG Pediatric Dental Group, UBC Dental Undergraduate Society) that made the day possible, and a special thanks to the Richmond Centre for Disability. We look forward to the next Sharing Smiles Day!

*See page 38 for student volunteers.

Check out all the photos from Sharing Smiles Day at Richmond Centre for Disability on Flickr at bit.ly/2nTJTEO

Read about Sharing Smiles Day at Richmond Centre for Disability in the *Richmond News* at bit.ly/2nMhakp

The Vancouver chapter of Oral Health, Total Health (OHTH) at the University of British Columbia is co-chaired by third-year dental students Kerri-Lyn

Chong, Emma Marler and Kimberly Paterson. They are pleased to have second-year students Michael Frew, Brian Lee and Andrea Szeto on board with

them. For more information about Oral Health, Total Health, the Vancouver chapter and Sharing Smiles Day events across the country, visit www.ohth.ca



Dental Care— An Important Part of Sara's Overall Recovery

Every week Sara* visits the Maida Duncan Women's and Family Drop-in and Resource Centre in New Westminster. At the drop-in centre, operated by the Elizabeth Fry Society of Greater Vancouver (EFry), she is able to socialize with other women over coffee and snacks, use the laundry facilities and look through the donated-clothing collection for an update to her wardrobe.

Ten years ago, Sara could not have imagined her life as it is now. Back then, she worked full-time, lived in her own home and was engaged to be married. After an accident, however, she lived with chronic pain that needed daily medication with opioid painkillers and was unable to work. This situation eventually resulted in the loss of her marriage prospect. Though Sara's pain became less severe over the years, her need for the painkillers increased. Because of the substance use and inability to work, she also lost her home three years ago and ended up living on the streets or couch surfing.

To support her opioid addiction, Sara began

to shoplift and was arrested in 2015. She spent six months in the BC Corrections women's facility, where she was able to attend a substance use and recovery program. Upon release, Sara stayed in EFry transitional housing, under community supervision, for her six months of parole.

With the support of staff at EFry, Sara eagerly signed up for the preventive oral care services that were provided each Wednesday by the UBC dental hygiene program. It had been a long time since she'd been able to see a dentist, and she suspected that the years of substance use had damaged her teeth. Sara remembers how embarrassed she was to show her long-neglected mouth to the dental hygiene students. But, she says, "They were so nice and didn't make a big deal of the situation at all. They didn't make me feel like it was all my fault."

She went on to describe how nice it was to also be in a safe place and not have to tell anyone that she'd been in prison because "obviously they knew my background." And

when it came to discussing the substance use, "there was no blame." Sara was also really appreciative that the students provided her with point-of-care HIV screening: "I'm here to prevent more problems with my teeth, while starting to take care of and prevent other things in my life. It seemed like the perfect thing to do, having that [HIV] checked as well."

Sara had all her preventive oral care completed at EFry, including cleaning, information on how to care for her teeth, fluoride application, a temporary filling and referral to a dentist for a comprehensive exam and other dental concerns. While she is very appreciative of the care she received, and continues to receive from the program, Sara is looking forward to the time when a full-service dental clinic is up and running at the new EFry centre—a safe place, where she would enjoy spending time. She's excited that she'll be able to have all her dental needs taken care of at one location.

*Sara is a composite of many women and their true-life stories and challenges.



Architectural renderings of the future care centre. The proposed dental clinic is seen in the pale blue area on the left side of the floor plan.

Everyone Deserves Dental Care

The Elizabeth Fry Society of Greater Vancouver (EFry) is a charitable organization that supports some of society's most vulnerable populations—women, girls and children at risk, involved in or affected by the justice system. While primarily focused on addressing the factors heavily correlated with criminalization, EFry also, through its non-prison-based community programs, addresses income support, homelessness and addiction for socially excluded women and children in the community at large.

To address a gap in resources in Surrey, EFry, with the Fraser Region Aboriginal Friendship Centre Association, is building a 5,110-square-metre (55,000 sq. ft.) facility (near the King George SkyTrain station) to provide 108 women and youth (and their children) with emergency homeless shelter beds and permanent long-term housing.

The multi-story building will offer commercial space on the first floor, where

the organizations propose to develop an innovative clinic that will engage and invest women in health care for themselves and their children. This resource will address health related to issues of poverty, parental substance use and homelessness within a gender-responsive, trauma-informed care model.

The planned, yet-to-be named care centre will house a dental clinic with three operatories. This clinic will be managed and operated by the University of British Columbia Faculty of Dentistry, whose students will provide no-cost restorative, preventive and emergency oral health services.

The Elizabeth Fry Society of Greater Vancouver and UBC Dentistry need your help to build this dental clinic. Your donation will ensure that Sara and many other women and their children will receive the services of oral health professionals in a safe and respectful environment at a facility in an accessible location.

For this project, the UBC Excellence Fund will match donations up to \$75,000.

To find out more about how to support the dental clinic project at the future multi-service centre for women affected by the justice system, contact Jane Merling, director of Development & Alumni Affairs, at 604-822-5886 or merling@dentistry.ubc.ca



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1970s



Susan Chow
Alan Lowe
DMD 1972

Susan (front row, second left) and Alan (back row, right) and others from the Class of 1972 enjoyed their 45-year class reunion dinner on March 10, 2017, at Market by Jean-Georges, Shangri-La Hotel, in Vancouver. The dean, Dr. Charles Shuler, dropped by to help celebrate.



Russ Yamada
DMD 1972

Russ works with the Oregon Nikkei group and speaks about the direct result of nuclear weapons. "I just wanted to show you that there is life after a dental career. I spent 99 percent of my energy in the dental profession and now I'm trying to do some things that might make a difference in the world in another way. With the Oregon Nikkei group, I get a chance to speak to schools and other groups about civil liberties, human rights and other topics. This is a photo of me speaking at an anti-nuclear event on the anniversary of Hiroshima."

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Gerry Chu
DMD 1976

Gerry received the Academy of General Dentistry Mastership Award last summer in Boston, Massachusetts. In the photo, Gerry is celebrating with his wife Rita Chu BDS Sc 1997 (left) and other family members.



John Fraser
DMD 1976

John and his wife Marta enjoyed "the sunny skies, Spanish language and different culture" on a recent trip to La Paz, Mexico.



Anne Crowley
DMD 1977

Anne (front row, centre) and classmates from 1977 celebrated their 40-year reunion at Victoria Chinese Restaurant in Vancouver on March 10, 2017. The dean, Dr. Charles Shuler, dropped by for a visit.

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

1980s



Zoltan Keresztes
DMD 1982

Zoltan ran into Kenji Shimizu DMD 1979 and Anne Crowley DMD 1977 at the UBC Dentistry booth at the Pacific Dental Conference on March 9, 2017.



Mike Racich
DMD 1982

Mike published a fourth book in his "Basic Rules" series, *The Basic Rules of Being a Dental Patient*.



Bill Liang
DMD 1983

Bill joined Sherry Priebe MSc 2009 and Denise Laronde MSc 2005 in Vietnam this past winter. Sherry led the volunteer mission to Vietnam, which included fourth-year dental hygiene students Iris Feng and Alyssa Barnes.



James Taylor
DMD 1984

James was appointed chief dental officer at the Public Health Agency of Canada on September 19, 2016.



Greg Chang
DMD 1986

Greg and the SuperChefs team attended the SurreyCares Community Foundation Serving with Distinction Awards event at the Sheraton Guildford Hotel on February 28, 2017. They received a nomination for a 2017 Serving with Distinction Award for outstanding service and leadership.



Dave Larsen
DMD 1987

Dave and classmates from the Class of 1987 celebrated their 30-year milestone reunion while attending the Adventure & Learn Hawaii 2017 CE program in Maui from January 30 to February 3, 2017. In the photo from left to right are Dave, Bill Riddell, Joan Eaton, Lange Soo, Janis Boyd, Tom Martin, UBC Dentistry dean Dr. Charles Shuler and Simon Yu.



Mandeep Jawanda
DMD 1989

Mandeep and his granddaughter enjoyed spending time in Whistler at the Annual Ski Seminar this past February.



Wilson Kwong
DMD 1989

Wilson (third left) hosted a Spaghetti for Six dinner in January. The popular event connects students with an alumnus who shares his or her insights and experiences.

1990s



Branko Cervienka
DMD 1991

Here's Branko on his dock in Quesnel, BC, wearing a sweatshirt he won in last November's Alumni newsletter contest. In the January newsletter, Branko was announced as a 1981 graduate, so this is to set the record straight—he is now 10 years younger!



Liz Johnson-Lee
DMD 1992

Liz (third left) hosted the last Spaghetti for Six dinner of the academic year in April.



Jamie Smillie
DMD 1994

In 1965, when Jamie was one year old, a young RCMP officer received a gold onlay on tooth 22, done by a UBC dental student. (The UBC dental school had just opened in 1964.) Fifty-two years later, in Powell River, BC, the policeman, now retired, with gold onlay intact (it has never come off), received treatment from Jamie around the same tooth for nothing more than small decay.



Chris Chung
DMD 1995

Chris (standing) hosted a Spaghetti for Six dinner event for dental students on February 16, 2017.



Sean Kelly
DMD 1995

Sean with UBC Thunderbirds mascot Thunder at the UBC Dentistry booth at the Vancouver & District Dental Society Midwinter Clinic last December.



Norman King
DMD 1996

Norm (left), Allan Hovan DMD 1980 (centre) and Johnathan Woo MSc/Dip Pedo 2014 (right) at the Alumni Reception at the Ontario Dental Conference on May 5, 2017. Norm and Allan were both inducted as Fellows into the International College of Dentists along with other alumni and BC dentists.

2000s



Melissa Skinner
DMD 2006

Melissa enjoys a moment at the Palm Springs Dental Practice Transition Seminar and Golf weekend from February 24 to 26, 2017, with Matt Wilson (seen on the left) from MNP (alumni partner and CDE sponsor), and Henry Doyle from Al Heaps & Associates (alumni partner and CDE co-host).



Zahir Damji
Danielle Woo
DMD 2008

Zahir and Danielle visited UBC Dentistry's booth at the Pacific Dental Conference on March 10, 2017, to get a head start on planning their class's milestone 10-year reunion next year. Classmates may contact Danielle and Zahir through Facebook for more information.



Diana Lin
MSc 2008

Diana (left), a clinical associate professor at UBC Dentistry, at a well-attended health fair booth at the Live Well With Diabetes Public Health Forum at the Radisson Hotel Vancouver Airport on November 6, 2016. Diana, with Kitty Yung, a dietitian with the Vancouver Coastal Health Healthy Living Program, co-supervised a team of third-year dental hygiene students: Alison Ashworth (second left), Yolanda Lan (second from right) and Kayley Sewak (right). They raised awareness about the importance of oral health for people living with diabetes and provided limited oral screening.



John Juwon Park
DMD 2008

John reconnected with the dean, Dr. Charles Shuler, at the alumni dinner in New York City on May 6, 2017.



Sean Chung
Bora Moon
DMD 2009

Bora (left) and Sean Chung (second left) met then fourth-year dental student Nathan Lee DMD 2017 candidate (right) and a friend, Heather Long, at the Alumni Reception at the Ontario Dental Conference on May 5, 2017, in Toronto.



Sherry Priebe
BDS 2003 MSc 2009

Sherry and UBC president Santa Ono shared the spotlight at a round table forum in Kelowna, BC, last October.



Paige Rice
BDS 2009

Paige (second left), along with Jenny Gibson BDS 2012 (third left) and Cate Grater-Nakamura BDS 2010 (fourth left), visit with friends at the Alumni Reception at the Ontario Dental Conference on May 5, 2017, in Toronto.

2010s



Oxana Korj
DMD 2011

Oxana completed her oral maxillofacial studies in Washington, DC, and now lives in Vancouver. She visited with Thunder, the UBC Thunderbirds mascot, at the UBC Dentistry booth at the Vancouver & District Dental Society Midwinter Clinic last December. Oxana also found time last November to host a Spaghetti for Six alumni and student dinner.

SHARE

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



Katrina Saina
DMD 2011

Katrina is engaged to be married to Jeff Krawchuk, a University of Alberta dentistry graduate, in July 2017, in Kelowna, BC. They live in Peachland and Katrina practises in Penticton.



Atyaf Saleh
DMD 2012

Atyaf stopped by UBC Dentistry with baby Mayar, who was born January 23, 2017.



Bryan Wong
DMD 2013

Bryan and Ann Lu DMD 2014 are engaged! Bryan's imaginative proposal included a radiograph, dental floss and the ring. Bryan is currently enrolled in the UBC graduate program in Pediatric Dentistry.



Zack Zeiler
DMD 2015

Zack met fellow alumnus Larry Hill DMD 1987 at the UBC Dentistry booth at the Pacific Dental Conference. Zack is stationed in Halifax, Nova Scotia, with the Canadian Forces.



Pria Dhaliwal
BDS Sc 2016

Pria gave a presentation to dental hygiene students that included information about her recently launched company, Toothbus.ca, and a tour of the Toothbus. In the photo, current dental hygiene faculty and students visit with Pria (van doorway centre) and her Toothbus.



Vanessa Hong
Amber Lee
Jaspreet Samra
BDS Sc 2016

Vanessa (right), Amber (centre) and Jaspreet stopped by the UBC Dentistry booth at the Pacific Dental Conference to say hello.

Almost Alumni



Sean Lim
Emily Thong
DMD 2017

As an unstoppable duo on the Grad Ball Committee, Sean and Emily organized Doughnut Day for students, faculty and staff on April 27, 2017.



Cecilia Loewen
DMD 2018
Brian Lee
DMD 2019

Cecilia and Brian, along with dental students from all years and alumni mentors, volunteered at the Abbotsford Food Bank dental clinic last fall. "It was a great day with this wonderful team of dentists, staff and students! I watched

a crown lengthening procedure and raising of a gingival flap for the first time," Cecilia writes. "Another highlight of the day was talking with a patient's young granddaughter, who said she also wanted to watch because she hopes to be a dentist when she grows up." In the team photo from left to right: Kody Kishi DMD 2020, Brian Lee DMD 2019, Emily Phillips DMD 2020, Brianna Henderson DMD 2019, Zoltan Keresztes DMD 1982, Cecilia Loewen DMD 2018, Farhan Shivji DMD 2017, Lala Hennessey, Michael Fenrich DMD 2017, Dr. Henry Louie DMD 1988, Moorea Zava DMD 2018, Jonathan Chan DMD 2018, Kaitlin Olson DMD 2018, Bonita Buddee, Dr. Komkham Pattanaporn, Cyrus Bachus DMD 2017 and Charles Kim DMD 2019.



BDS Sc Class of 2018
DMD Class of 2018
BDS Sc Class of 2019
DMD Class of 2019
DMD Class of 2020

Many first- to third-year dental and dental hygiene students, alumni mentors and faculty volunteered at the Abbotsford Food Bank with the new cargo van for community outreach. The volunteer dental clinic was led by faculty member Dr. Komkham Pattanaporn.

Recent Events



alumni UBC Hong Kong Seasonal Celebration

Dean of UBC Dentistry Dr. Charles Shuler and many alumni and friends attended a dinner hosted by UBC president Santa Ono in Hong Kong on December 13, 2016, at the Hong Kong Bankers Club.



MEDTalks

UBC Dentistry partnered with the faculties of Pharmaceutical Sciences and Medicine for MEDTalks, an evening of panel presentations called "The Genomics Revolution," on January 24, 2017. Five top UBC researchers—including Dentistry's Dr. Chris Overall, seen on the left, with other panel members and moderator Jeff Todd from *alumni UBC*—discussed the work they are doing to accelerate the genomics revolution and advance the fields of medicine, dentistry and pharmaceutical sciences. A recording of the panel presentations and the question-and-answer period is available at bit.ly/2pHC7ho. Another MEDTalks event is planned for January 2018, so watch for more information and an invitation for alumni to attend.



Annual Ski Seminar at Whistler 2017

Many alumni attended the UBC Division of Continuing Dental Education event in Whistler this past February. Pictured from left to right: Christina Stanciu DMD 2006, John Thiessen DMD 1978, Bruce Peglar DMD 1988, Chris Wyatt DMD 1986, Mandeep Jawanda DMD 1989 and Ray Krumme DMD 2003.

KEEP IN TOUCH

www.dentistry.ubc.ca/alumni



UBC Dentistry Board of Counsellors Meeting

Dean of Dentistry Dr. Charles Shuler's Board of Counsellors gathered for the last time this past March. During Dr. Shuler's time as dean, the board, made up of several alumni and other community partners, have gathered twice yearly to receive updates on the university and the Faculty, and to give their input and provide support.

UBC Dentistry Booth at the Pacific Dental Conference 2017

Many alumni dropped by UBC Dentistry's booth at the Pacific Dental Conference from March 9 to 11, 2017, to say hello and have their photograph taken.



Doug Conn DMD 1982 visited with daughter Britta. Afarin Pahlavan (left) and Parisa Pezeshkfar, both DMD 2016, tried their luck at Spin the Wheel.



Recent graduates (pictured above from left to right) Mohammed Al-Shakarchi DMD 2016, Leith Maal-Bared DMD 2015, George Spanos DMD 2016 and Mudhar Al-Bayati DMD 2015 took a moment to pose together at the booth.

Young Alumni & Student Reception at the Pacific Dental Conference 2017

What happens when current third- and fourth-year students and recent alumni (zero to five years out) meet?



There is an opportunity for students to ask questions and for alumni to provide intel to soon-to-be grads about "life after school."



The evening, with over 100 people in attendance, was delightful: energy flowed, friendships were celebrated and stories were shared!



Annual Alumni Reception at the Pacific Dental Conference 2017

"Step right up and meet the greatest alumni on earth!" This year's circus-themed alumni reception at the PDC attracted record numbers of alumni and friends to the Vancouver Convention and Exhibition Centre West Ballroom Foyer.



The ringmaster, Dean Shuler, chats to alumni at the reception.



Lively music and delicious food provided a festive backdrop for UBC Dentistry alumni to reconnect with old friends and classmates while enjoying stilt walkers, a magician and acrobats.



The reception was a perfect occasion to showcase the new cargo van and portable dental equipment for UBC Dentistry's Mobile Community Dental Clinic program.



Upper Island & District Dental Society Spring Conference

The dean, Dr. Charles Shuler, was invited to present a continuing education lecture on oral cancer at the society's annual conference held at Crown Isle Resort in Courtney, BC, from April 21 to 22, 2017. In the room packed with alumni and others from the dental community, you could have heard a pin drop!



Prince George & District Dental Society Annual General Meeting

The dean, Dr. Charles Shuler, was invited to speak at the society's annual general meeting held April 26, 2017, where he visited with many Prince George-based alumni.

Alumni Reception at the Ontario Dental Conference 2017

Over 50 Ontario-based alumni joined Dr. Charles Shuler, dean of UBC Dentistry, at the Alumni Reception on May 5, 2017, during the Ontario Dental Association's annual meeting in Toronto. Over the years, this event has become a much-anticipated evening of sips, nibbles and making connections, both old and new.



Dr. Charles Shuler on the left and Ernie Lam DMD 1989, MSc 1991. From left to right: Jordan Gerster DMD 2010, Alvin Lo DMD 2010, Diana Younan DMD 2011 and Kristina Pahuta DMD 2011.



In the photo above, members of the DMD Class of 1987 visit with Henry Doyle (second left) and Al Heaps (third left) of Al Heaps & Associates, an alumni partner of UBC Dentistry.



Above photo: Ontario-based alumni take a break with lots of food and beverages.

COMMUNITY PARTNERS



Colgate



ALUMNI PARTNERS



Alumni Dinner in New York City 2017

For the many UBC Dentistry alumni continuing their education through various residency programs in New York and surrounding areas, the dean, Dr. Charles Shuler, created an annual tradition of a family-style dinner at Patrizia's of Manhattan, a beloved Italian restaurant. This past May, alumni from several class years attended the dinner and enjoyed getting caught up with each other. In the photo from left to right: Ashley Gill DMD 2016, Sheena Emmanuel DMD 2008 and Joy Chen DMD 2016.

Events for Students and Alumni

VOLUNTEER COMMUNITY CLINICS - UPCOMING

Abbotsford Food Bank (Abbotsford)
September 16, October 14, November 4, 2017

Ray-Cam Co-operative Centre, The Dental Mission Project (Vancouver)
September 9, 2017

Richmond Hospital (Richmond)
October 7, 2017

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

PLANNING A REUNION?

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

More Events for Alumni

NANAIMO ALUMNI CE & RECEPTION

Friday, September 29, 2017 · Time TBA
Nanaimo Golf Club, Nanaimo, BC

VICTORIA ALUMNI CE & RECEPTION

Saturday, September 30, 2017 · Time TBA
Brentwood Bay Resort, Victoria, BC

ALUMNI WINE RECEPTION AT THE TODS MEETING, KELOWNA

Friday, October 20, 2017 · Time TBA
Kelowna Yacht Club, Kelowna, BC

DENTAL HYGIENE ALUMNI CE & RECEPTION

Friday, November 17, 2017 · Time TBA
Nobel Biocare Oral Health Centre, UBC Point Grey Campus, Vancouver, BC

For more information about all these events, visit www.dentistry.ubc.ca/alumni or email 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 3,000 alumni. Share your news, thoughts or comments. Visit dentistry.ubc.ca/alumni

DENTAL MENTORSHIP PROGRAM • Janis Boyd DMD 1987 • Mary Lou Campbell DMD 1985 • Roger Chan DMD 2002 • Jeffry Davis DMD 1980 • Jadvinder Dhesi DMD 2004 • Dr. Inderjit Dulay • Raymond Dyck DMD 1992 • Dr. Will Gaede • Anita Gartner-Makihara DMD 1993 • Dr. Chattar Gill • Silke Gumpfinger DMD 2003 • Andrew Kay DMD 1981 • Hank Klein DMD 1978 • Dr. Arshbir Kler • Hin Long Ko DMD 2005 • Alisa Lange DMD 1994 • Alan Lau DMD 1988 • Kevin Lauwers DMD 2005 • Dr. Paul Lee • Jordan Millar DMD 2004 • Reza Nouri DMD 1994 • Lovedeep Randhawa DMD 2004 • William Riddell DMD 1987 • Dr. Andrew Shearon • Dr. Bob Sims • Lange Soo DMD 1987 • Garry Sutton DMD 1972 • Dr. Tim Tam • Janet Thom DMD 1990 • Dave Waterman DMD 1979 • David Yu DMD 1988 **DENTAL UNDERGRADUATE SOCIETY EXECUTIVE** • Kerri-Lyn Chong DMD 2018 • Tanner Dobson DMD 2018 • Manvir Grewal BDSd 2017 • Thomas Hoos DMD 2018 • Kiavash Hossini DMD 2017 • Natalie King BDSd 2017 • Viktoria Kirsten DMD 2018 • Janson Lee DMD 2017 • Sean Lim DMD 2017 • Cecilia Loewen DMD 2018 • Kaitlin Olson DMD 2018 • Dylan Olver DMD 2017 • Karissa Reid BDSd 2017 • Eric Rocca DMD 2018 • Steven Schadinger DMD 2018 • Parveen Sekhon BDSd 2017 • Sam Soufi DMD 2017 • Emily Thong DMD 2017 • Geoffrey Young DMD 2018 • Steven Zbarsky DMD 2017 **SHARING SMILES DAY-RICHMOND CENTRE FOR DISABILITY** • Dr. Mina Al-Mosawi MSc/Dip Pedo 2019 • Amir Asghari DMD 2018 • Ariga Avanesian DMD 2020 • Shahriar Behmanesh DMD 2019 • Emily Choi BDSd 2017 • Caroline Chu DMD 2019 • Paul Chung DMD 2019 • Amar Dev DMD 2018 • Iris Feng BDSd 2017 • Marcus Hackman DMD 2019 • Michael Haimanot DMD 2019 • Christine Hao DMD 2018 • Luke Hawkins DMD 2018 • Darren Huang DMD 2018 • Alex Hyatt DMD 2018 • Jace James DMD 2018 • Heidi Jang DMD 2020 • Navdeep Johal BDSd 2017 • Sadaf Kashani DMD 2019 • Rojin Kiani DMD 2020 • Yolanda Lan BDSd 2018 • Zach Lim DMD 2018 • Hayia Mahmood BDSd 2017 • Dr. Kathleen Martin MSc/Dip Ortho 2018 • Dr. Kavita Mathu-Muju • Reza Nouri DMD 1994 • Eric Rocca DMD 2018 • Kelsie Sallis DMD 2019 • Ralph Samaniego DMD 2020 • Dr. Charles Shuler • Dustin Trudeau DMD 2019 • Amy von der Gonna DMD 2018 • Dr. Brian Wong MSc/Dip Pedo 2019 • Dustin Wurm DMD 2019 • Michael Yang DMD 2019 • Jay Yip • Dr. Cara Yu MSc/Dip Pedo 2019 • Emily Yurkowski DMD 2020 **SPAGHETTI FOR SIX** • Christopher Chung DMD 1995 • Oxana Korj DMD 2011 • Wilson Kwong DMD 1989 • Elizabeth Johnson-Lee DMD 1992 • Danielle Woo DMD 2008 **UBC ALUMNI ASSOCIATION ADVISORY COUNCIL** • Ed O'Brien DMD 1976 **UBC DENTISTRY BOARD OF COUNSELLORS** • Heather Bigger BDSd 2006 MSc 2009 • Richard Busse DMD 1986 • Dr. Kenneth Chow • Susan Chow DMD 1972 • Brenda Currie Dip DH 1976 BDSd 2004 MSc 2007 • Mr. Craig Dewar • Asef Karim DMD 1999 • Mark Kwon DMD 1997 • Ms. Winnie Leong • Mrs. Sophia Leung CM • Dr. Jin Li-Jian • Mr. Hyo Maier •

THANK YOU

Ms. Brenda Morris • Nick Seddon DMD 2006 • Robert Staschuk DMD 1989 • Mr. Ron Suh • Dr. Tim Tam • David Tobias DMD 1984 • Ash Varma DMD 1983 • Dr. Bill Wong • Benjamin Yeung DMD 1983 • Ron Zokol DMD 1974 **VOLUNTEER COMMUNITY CLINIC PROGRAM-VOLUNTEER CLINICS** • Mike Allan DMD 2018 • Amir Asghari DMD 2018 • Cyrus Bachus DMD 2017 • Chris Barlow DMD 1989 • Shahriar Behmanesh DMD 2019 • Bob Blacker • Emery Bland DMD 2010 • Bonita Buddee • Jesse Chahal DMD 2018 • Jonathan Chan DMD 2018 • Min Cho DMD 2017 • Emily Choi BDSd 2017 • Kerri-Lyn Chong DMD 2018 • Caroline Chu DMD 2019 • Amarjot Dev DMD 2018 • Iris Feng BDSd 2017 • Michael Fenrich DMD 2017 • Manvir Grewal BDSd 2017 • Marcus Hackman DMD 2019 • David Hemerling DMD 1993 • Brianne Henderson DMD 2019 • Lala Hennessey • Ming Ho DMD 2017 • Ying Huang DMD 2020 • Alex Hyatt DMD 2018 • Navdeep Johal BDSd 2017 • Elizabeth Johnson-Lee DMD 1992 • Zoltan Keresztes DMD 1982 • Alice Kim DMD 2017 • Charles Kim DMD 2019 • Jamie Kim DMD 2020 • Sara Kim DMD 2018 • Kody Kishi DMD 2020 • Eric Kong DMD 2017 • Nicole Kwong DMD 2019 • David Larsen DMD 1987 • Alan Lau DMD 1988 • Brian Lee DMD 2019 • Junkyung Lee DMD 2020 • Nathan Lee DMD 2017 • Zach Lim DMD 2018 • Sean Lin DMD 2017 • Ginny Liu BDSd 2018 • Brett Livingstone DMD 2019 • Marcus Lo DMD 2018 • Cecilia Loewen DMD 2018 • Henry Louie DMD 1988 • Hayia Mahmood BDSd 2017 • Kendra McCrea DMD 2019 • Jose Mendoza • Dr. Steve Mottahed • Emily Munro BDSd 2017 • Quyen Ngo BDSd 2017 • Doug Nielsen DMD 1972 • Susan Nielsen • Jihyoon Oh DMD 2020 • Kaitlin Olson DMD 2018 • Jason Park DMD 2018 • Nicole Pasin BDSd 2018 • Dr. Komkham Pattanaporn • Emily Phillips DMD 2020 • Ena Que BDSd 2017 • Alexandru Radu DMD 2018 • Raphael Samaniego DMD 2020 • Navraj Sandhu DMD 2018 • Varun Saran DMD 2017 • Sara Sassani DMD 2018 • Saba Shakeri DMD 2020 • Farhan Shivji DMD 2017 • Katherine Thomas DMD 2020 • Emily Thong DMD 2017 • Jackie Tong BDSd 2018 • Dr. Banita Villing • Jimmy Wang DMD 2017 • Michael Yang DMD 2019 • Stephen Yoon DMD 2017 • Geoffrey Young DMD 2018 • Rachelle Young DMD 2017 • Moorea Zava DMD 2018 *Those listed with MSc, DMD or BDSd years from 2017 through 2020 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 2017-2018

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

SEPTEMBER 2017

23 (SATURDAY)
Treatment Planning Implant Restorations for the Partially and Completely Edentulous Patient
Dr. Brian Kucey, Dr. Steven Sadowsky

SEPTEMBER - OCTOBER 2017

Smile Design Excellence 2017
Live patient program
September 29 - 30 (FRIDAY - SATURDAY)
October 27 - 28 (FRIDAY - SATURDAY)
Dr. Wilson Kwong

SEPTEMBER - NOVEMBER 2017

West Coast Institute-Live Patient Program and Hands-On Surgical Implant Course
September 22 - 24 (FRIDAY - SUNDAY)
November 2 - 5 (THURSDAY - SUNDAY)
Dr. Kevin Aminzadeh, Dr. Tassos Irinakis, Dr. Ali Sadeghi

SEPTEMBER - DECEMBER 2017

Certificate in Dental Practice Management-Building a Business Worth Smiling About
September 29 - 1 (FRIDAY - SUNDAY)
November 3 - 5 (FRIDAY - SUNDAY)
December 1 - 3 (FRIDAY - SUNDAY)
Course in partnership with the Sauder School of Business and the British Columbia Dental Association
Dr. Jim Armstrong, Dr. Anthony Boardman, Dr. Mahesh Nagarajan, Dr. Tim Silk, Mr. Scott Sinclair, Dr. Daniel Skarllicki

OCTOBER 2017

20 - 22 (FRIDAY - SUNDAY)
Mastering Adult Minimal Sedation: Inhalation and Oral Sedation in Dentistry
Dr. Scott Dickinson, Dr. Mark Donaldson, Dr. Jason Goodchild
21 (SATURDAY)
Medical Emergencies in the Dental Office
Dr. David Isen
28 (SATURDAY)
Posterior Composites: A Rapid, Simplified Placement Technique
A lecture, demonstration and participation course
Dr. Ronald Jackson

NOVEMBER 2017

17 - 18 (FRIDAY - SATURDAY)
Soft Tissue Grafting for the General Practitioner
Dr. Farzan Ghannad, Dr. Tassos Irinakis
25 (SATURDAY)
Fundamental Principles of Periodontal Instrumentation
Penny Hatzimanolakis

JANUARY - FEBRUARY 2018

29 - 2 (MONDAY - FRIDAY)
Adventure & Learn: Hawaii 2018
Digital Dentistry-What You Need to Know About the What, How and Why
Dr. Jonathan Ng
Aesthetics & Function of Ceramic Restorations
Dr. Chris Wyatt
Endodontics: Contemporary Root Canal Instrumentation and Obturation
Dr. Jeffrey Coil
Location: Fairmont Kea Lani, Maui, Hawaii

FEBRUARY 2018

8 - 10 (THURSDAY - SATURDAY)
Annual Ski Seminar at Whistler 2018
Single Implant Restoration: A Step by Step Approach
Dr. Nariman Amiri
Advances and Controversies in Endo That You Should Know
Dr. Manor Haas
Endo vs. Implants: To Save or Not to Save (Why and How)
Dr. Manor Haas
Location: Four Seasons Resort, Whistler, BC
22 - 25 (THURSDAY - SUNDAY)
Annual AI Heaps & Associates Inc. Palm Springs Dental Practice Transition Seminar & Golf
Topics and speakers TBA
Location: Omni Rancho Las Palmas Resort & Spa, Rancho Mirage, California

CDE PARTNERSHIP

September 2017 - June 2018
The AAID (American Academy of Implant Dentistry) Vancouver Maxicourse is a structured program consisting of 30 days of education over 10 months. For more information, visit www.vancouvermaxicourse.com

MARCH 2018

26 - 30 (MONDAY - FRIDAY)
UBC Orthodontic Symposium 2018: Advances in Orthodontics
Advances in Orthodontic Treatment with Invisalign
Dr. Sandra Tai
3D Imaging-Clinical Insights From the TMD and the Upper Airway
Dr. Lucia Cevitanes
Management of Dental Trauma and Emergencies
Dr. Anthony DiAngelis
Location: Fairmont Orchid, Kohala Coast on the "Big Island," Hawaii

FOR REGISTERED DENTAL HYGIENISTS AND CERTIFIED DENTAL ASSISTANTS

SEPTEMBER 2017

23 - 24 (SATURDAY - SUNDAY)
A Comprehensive Review of Local Anaesthesia for Dental Hygienists
Speakers TBA

STUDY CLUBS 2017 - 2018

September 2017 - July 2018
Basic Orthodontics for the General Practitioner
Dr. Paul Witt
September 2017 - August 2018
Advanced Orthodontics for the General Practitioner
Dr. Benjamin Pliska
September 2017 - July 2018
UBC-Radiant Advanced Orthodontics for the General Practitioner
Dr. Paul Witt
October 2017 - May 2018
Advanced Fixed Prosthodontics for the General Practitioner (Part II)
Dr. Chris Wyatt
For dates, times and locations of study clubs, visit www.dentistry.ubc.ca/cde

FOR FULL DETAILS OF CDE COURSES AND TO REGISTER VISIT DENTISTRY.UBC.CA/CDE ADA C-E-R-P

Continuing Education Recognition Program

MARK YOUR CALENDARS!

CONTINUING DENTAL EDUCATION 2018

Travel and Learn

Adventure & Learn: Hawaii 2018
January 29 - February 2 (Monday - Friday)

Annual Ski Seminar at Whistler 2018
February 8 - 10 (Thursday - Saturday)

Annual Al Heaps & Associates Inc. Palm Springs Dental Practice Transition Seminar & Golf
February 22 - 25 (Thursday - Sunday)

UBC Orthodontic Symposium 2018: Advances in Orthodontics
March 26 - 30 (Monday - Friday)

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

EVENTS FOR STUDENTS AND ALUMNI

Volunteer Community Clinics-Upcoming

Abbotsford Food Bank (Abbotsford)
September 16, October 14,
November 4, 2017 (Saturdays)

Ray-Cam Co-operative Centre, The Dental Mission Project (Vancouver)
September 9, 2017 (Saturday)

Richmond Hospital (Richmond)
October 7, 2017 (Saturday)

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

MORE EVENTS FOR ALUMNI

Nanaimo Alumni CE & Reception
September 29, 2017 (Friday)

Victoria Alumni CE & Reception
September 30, 2017 (Saturday)

Alumni Wine Reception at the TODS Meeting, Kelowna
October 20, 2017 (Friday)

Dental Hygiene Alumni CE & Reception, Vancouver
November 17, 2017 (Friday)

For more information about these events, visit dentistry.ubc.ca/alumni or email alumni@dentistry.ubc.ca

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