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Advancing Oral Health Through Outstanding Education, Research and Community Service

Dean's Message



*Dear Colleagues,
Welcome to the fall 2016 issue of UBC Faculty of
Dentistry's Impressions.*

This is an exciting time at the University of British Columbia: new UBC president Dr. Santa Ono has started his term, beginning a new era at UBC, and new construction continues on campus, changing the look of the entire Point Grey campus. The courtyard between Dentistry's John B. Macdonald Building and the IRC (Instructional Resources Centre) has been torn up and is slated for redesigned landscaping.

At the Faculty of Dentistry, the search for a new dean has been initiated, and the successful candidate will likely start a first term in 2017. Additionally, for the first time, the newly admitted dentistry class will have their entire DMD curriculum, including the relevant medical content, provided by the Faculty of Dentistry.

In this issue of *Impressions*, we have an article on the DMD admission process, highlighting Dr. Karen Gardner's work on using mini interviews as part of the dental admissions program, as well as Dr. Leandra Best's

employment of problem-based learning (PBL) sessions. We profile an outstanding junior faculty member, Dr. Hugh Kim, and his current research on the role of blood platelets in chronic inflammation. We also review UBC Dentistry's global outreach activity and look at data on the distribution of UBC grads throughout the province of British Columbia.

We are quite excited by the achievements of our faculty members, students, staff and alumni, and I hope you enjoy reading about the Faculty of Dentistry's ongoing activity in research, teaching and service. Of particular note, Drs. Nancy Ford, Chris Overall and Joy Richman have received significant grants for research projects in their respective areas of contrast-enhanced imaging, using degradomics to look at protein cutting in inflammatory disease, and tooth regeneration.

I would like to personally thank everyone for the cards and good wishes that were sent

to me while I was on medical leave. I am delighted to be back full-time as dean of the Faculty of Dentistry and look forward to our accomplishments in the last nine months of my term. The UBC Dentistry family has been outstanding and a source of immense support for me. I wish everyone the very best in their lives and careers.

All the best,

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

NEWS

Faculty Liaison Team Takes Top ADEA CCI Prize



From left to right: Drs. Jim Richardson, Leandra Best, HsingChi von Bergmann and Nancy Black won the first-place prize for their poster presentation on curriculum innovation at the 2016 ADEA CCI Liaisons Summer Meeting in New Orleans, Louisiana.

UBC Dentistry's four-member liaison team garnered the top prize for their poster presentation about the Faculty's curriculum innovation. The competition was held during the Liaisons Summer Meeting of the American Dental Education Association (ADEA) Commission on Change and Innovation (CCI) in Dental Education, held in New Orleans, Louisiana, from June 7 to 9, 2016.

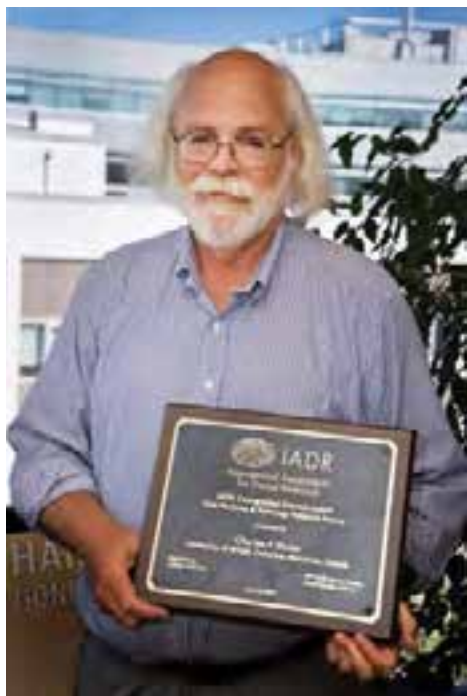
Liaison team members are found at every US and Canadian dental school and serve as conduits for information exchange between the ADEA CCI and faculty who implement the curriculum for students. Drs. Leandra Best, Nancy Black, Jim Richardson and HsingChi von Bergmann—all experts in various dental education initiatives at UBC—took first place after a three-round, peer-rated competition over the course of two days at the 2016 ADEA CCI Liaisons Summer Meeting.

The team's poster encapsulates the rationale and goals of a renewed small-group-learning-based, spiralled curriculum and a new formative-focused, competency-based assessment system called Progress Portfolio, which is specifically designed to meet both the educational needs of dental students and accreditation requirements.

Round one participants were rated on the basis of innovation, significance, collaboration and implementation to qualify for round two, where participants' ideas were judged by a panel for impact on dental education. The three top teams then entered the final round to compete in a timed skills task that showcased their ability to think creatively in the moment.

The competition was open to teams from all US and Canadian dental schools. Thirty-two teams entered the competition, and UBC was the only team from Canada.

View the poster "Building an Innovative, Competency-Based Assessment System to Support a Renewed, Small Group Learning-Based, Spiraled Dental Curriculum at the University of British Columbia" at bit.ly/29Es87z



Dr. Charles Shuler, professor and dean of the Faculty of Dentistry, has been awarded the 2016 Distinguished Scientist Award in Oral Medicine and Pathology by the International Association for Dental Research.

Dr. Charles Shuler Wins IADR Distinguished Scientist Award

Dr. Charles Shuler, professor and dean of the Faculty of Dentistry, has won the 2016 Distinguished Scientist Award in Oral Medicine and Pathology from the International Association for Dental Research (IADR). This is one of the highest honours bestowed by the IADR. According to the organization's news release, Prof. Shuler has been recognized for his outstanding and sustained peer-reviewed research in three major areas: 1) development of the secondary palate; 2) characterization of molecular changes in oral cancer; and 3) characterization of the role of microbial biofilms in bisphosphonate-related osteonecrosis of the jaws.

The news release states: "For nearly 30 years, the primary research focus of Shuler's laboratory has been investigations of the control of fusion of the secondary palate. These studies have examined the medial edge epithelium (MEE) of the palatal shelves. He and a team of scientists

in his lab identified the critical role of TGF-3 in the process of palatal fusion and the expression of that molecule in the MEE. Their findings of the critical role of TGF-3 in palatal fusion have been translated into clinical applications screening pregnant women, and it has been shown that some isoforms of TGF-3 are associated with increased incidence of cleft lip/palate in humans when the mother smokes while pregnant. Their studies continue to examine the mechanism of TGF-3 during palatogenesis to identify specific targets for teratogenic molecules that are linked with craniofacial birth defects. Additionally, he has been involved in education research and several clinical research projects."

The award was presented to Shuler *in absentia* at the opening ceremonies of the IADR's 94th General Session & Exhibition on June 22, 2016, in Seoul, Republic of Korea.

UBC Dentistry Research Day 2017 IMPLANTS IN DENTISTRY

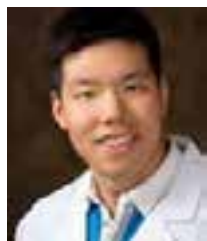
Tuesday, January 24, 2017
Alma Mater Society Student Nest, Great Hall

Research Day 2017 will mark the 10th anniversary of this annual event. In recognition of this milestone, the Faculty of Dentistry is reprising the important clinical topic of implants. The program will examine ongoing research and current published evidence that may significantly impact 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 will present their research and clinical perspectives. They are advancing understanding in the areas of implant placement, restoration, long-term stability and best practices for the care of both stable and disease-associated implants. Collectively, all are working to improve patient care and oral health.

Keep up-to-date at www.dentistry.ubc.ca/researchday

DMD Student Wins IADR Fellowship



Jordan Cheng

Jordan Cheng, a fourth-year dental student, received the International Association for Dental Research (IADR) Norton Ross Fellowship. This fellowship allows a dental or postgraduate student to obtain training and experience in dental or related research. It is awarded every other year and rotates among the IADR Divisions (countries or continent regions).

Cheng, who is supervised by associate professor Dr. Lari Häkkinen in the Department of Oral Biological & Medical Sciences Laboratory of Periodontal Biology, garnered the fellowship for his proposal to analyze human gingival wound healing, with a special emphasis on cell communication through connexins such as Cx43. Cheng will develop his knowledge, understanding and application of proteomics techniques for assessing Cx43-induced proteome-wide changes in gingival fibroblasts and wounds.

The fellowship enables Cheng to visit the Salivary Diagnostics laboratory at the University of California, Los Angeles, led by Dr. David Wong. Wong's laboratory is a world leader in using large-scale proteomic techniques to uncover novel salivary protein markers for various oral and systemic diseases. Cheng will undertake training in protein collection and purification, proteome analysis by mass spectrometry, and bioinformatics methods for proteome identification and analysis. In addition, he will participate in lab meetings and journal club sessions, where he will get the opportunity to discuss ideas and concepts with lab members.

Cheng received this fellowship at the IADR's 94th General Session & Exhibition on June 22, 2016, in Seoul, Republic of Korea.



Dr. Christopher Overall

Overall Lab Secures \$5.55M for Inflammatory Disease Research

The Canadian Institutes of Health Research (CIHR) has awarded UBC Dentistry professor Christopher Overall, Canada Research Chair in Proteinase Proteomics and Systems Biology, a Foundation Grant for \$5.55 million over seven years for a project titled "Empowering Canada as an International Leader in Proteomic Identification of Pathological Proteolytic Signature Biomarkers of Inflammatory Diseases for Discovering Disease Mechanisms, New Diagnostics and Treatments." This is the largest grant given to any British Columbia scientist this year and one of the top 10 in the country.

CIHR's new Foundation Grant is designed to contribute to a sustainable foundation of health research leaders by providing long-term support for innovative, high-impact research programs. The Foundation Grant requires that all CIHR grants awarded to an investigator be consolidated; thus, two other new five-year project grants also awarded to Overall and announced at the same time are to be returned to CIHR.

Chronic inflammatory diseases like periodontitis, arthritis and lupus affect 82 percent of Canadians, and for Canadians with immunodeficiencies, untreatable infections—often due to increasing drug resistance—are serious threats. In the one-in-2,000 Canadians with inherited immunodeficiencies, genetic defects cause a reduction in the number of defence proteins in white blood cells, and there is commonly also a reduction of disease-fighting defence proteins in inflammatory diseases. Overall discovered a new mechanism of loss: his lab reported that defence proteins are also lost after they are cut by white blood cell immune proteases that function as molecular shears to precisely cut proteins in two.

These crucial discoveries were made possible by Overall's innovative and highly advanced research approach known as "degradomics." Degradomics is a method of identifying the cut ends of proteins. Proteins are only cut during active disease, so these segments are highly valued as disease markers for developing new clinical tests. The earlier inflammatory diseases are detected and treated, the easier they are to manage, thus reducing long-term disability.

As part of the international Human Proteome Project consortium, Overall is also using degradomics to identify the natural ends of all human proteins. This will allow his team to characterize the functions of normal versus diseased proteins, hence revealing new disease mechanisms.

Over the next seven years, Overall will use degradomics to generate clinically relevant knowledge on how proteases damage disease-fighting defence systems in human inflammatory and immunodeficiency diseases. He will obtain human tissues discarded in treatment—inflamed gum from wisdom teeth extractions, white blood cells from patients, and placenta from premature babies, for example. Since the defence proteins are similar in many different diseases, his results promise to be broadly applied.

The knowledge gained by Overall and his team from this research will translate into the development of new drugs to combat inflammatory and autoimmune diseases. Investigating the cut protein ends in these diseases will identify the damaging proteases that can be targeted, potentially improving the health of Canadians and contributing to sustainable health care costs.

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Updates From BOLD–The Bureau of Legal Dentistry

Annual Training for NATO, ABCA Personnel

Participants from seven countries undertook advanced training in disaster victim identification (DVI) this summer at UBC Dentistry, hosted by the UBC Bureau of Legal Dentistry forensic laboratory. Both the North Atlantic Treaty Organization (NATO) and the American, British, Canadian, Australian and New Zealand Armies' Program (ABCA) recognize the course as a touchstone.

Australia, Belgium, Canada, Germany, the Netherlands, New Zealand and the United States sent a total of 18 dentists and dental technicians to take the mission-essential training. Four officers from the various military organizations helped teach the annual course.

Read more about UBC's BOLD lab teaching military dentists from around the world how to identify victims of disasters at bit.ly/19XiHGa



Military personnel from NATO and ABCA as well as instructors from UBC's BOLD lab during the annual disaster victim identification course at UBC in June 2016.

Research in Reptilian Tooth and Jaw Development Earns NSERC Grants



Micro-CT scan of a gecko skull.

Under its Discovery Grants Program, the Natural Sciences and Engineering Research Council (NSERC) of Canada awarded Dr. Joy Richman \$201,000 over five years to study the development of skull anatomy and tooth regeneration in reptiles and birds, and under its Research Tools and Instruments Grants Program, just over \$57,000 to set up a reptile research facility.

“Reptiles and mammals share a common ancestor dating back more than 300-million years, but through evolution significant specializations in the skull and teeth have arisen,” explains Richman, a developmental biologist and specialist in pediatric dentistry. For example, the palates of mammals and reptiles differ. Mammals always have closed palates that separate the oral and nasal cavities. In contrast, snakes, lizards and birds have open palates. Alligators, surprisingly, have a closed palate like mammals.

Richman's goal is to determine how and when in development these differences arose. The research will examine early embryos of reptiles in order to identify the genes that correlate with subsequent jaw differences. The function of promising candidate genes will be studied further using chicken embryos.

There are also striking differences in the capacity of mammals and reptiles to replace teeth. Most snakes, lizards and crocodilians replace their teeth continuously throughout

life (polyphyodonty), whereas most mammals, including humans, can only replace theirs once.

The Richman lab will investigate tooth replacement in longitudinal studies on adult leopard geckos. By taking wax bite impressions, the shedding of teeth along the jaw will be recorded, giving insights into the timing and pattern of tooth replacement. Moreover, the lab will test whether there are genetic cues that regulate tooth renewal. The role of the environment in development of replacement teeth will also be tested by removing teeth, injecting drugs next to the teeth or locally damaging the dental tissues. Follow-up experiments will analyze the fixed tissues for gene expression, presence of stem cells and the effects on cellular dynamics to determine why reptiles have retained the ability to renew their dentition.

In the future, the identification of key molecules that regulate tooth replacement will be applicable to bioengineering human teeth.

In order to conduct these experiments, funding has been provided for a new reptile research facility, including equipment such as a fluorescence stereomicroscope, camera, scavenger for anaesthetic gases, tissue culture incubator and reptile egg incubator. The equipment will be shared between Richman's lab in the Life Sciences Institute and the UBC Centre for Comparative Medicine.

Richman's reptile research group is unique in Canada and the world. Their innovative studies on molecular evolution of the skull and teeth will provide insights into how animals have adapted to environmental changes. Results are of great interest to paleobiologists, developmental biologists and the broad scientific community.

NSERC Grant to Support Tissue Imaging Research

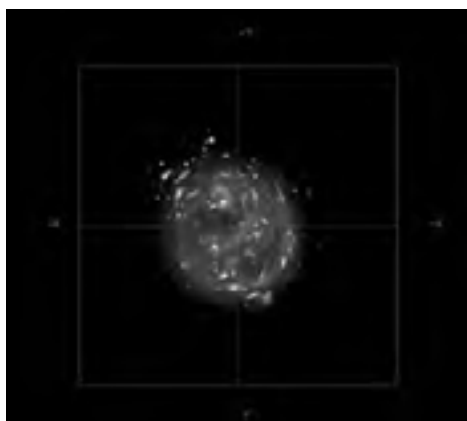


Image from an optical projection tomography scanner, taken by Dylan Jow, a third-year physics and math major who undertook UBC's work-learn program in summer 2016, in Dr. Nancy Ford's lab. Jow used maximum intensity projection to show the brightest pixels in the 3D volume as a 2D image. The bright dots are quantum dots injected into a block of agarose, a material similar to gelatin.

A Natural Sciences and Engineering Research Council (NSERC) of Canada Discovery Grant in the amount of \$105,000 over five years has been awarded to Dr. Nancy Ford for contrast-enhanced imaging using X-ray and optical techniques. Ford is an assistant professor in the Department of Oral Biological & Medical Sciences and an expert in micro-computed tomography (micro-CT) and in vivo small animal imaging.

Ford's NSERC-funded study will compare 3D X-ray images from micro-CT and synchrotron studies with optical techniques such as 2D confocal microscopy and 3D optical projection tomography (OPT). The measurements performed on the micro-CT and synchrotron images will provide information about organ structure and function in living animals. The optical techniques will, additionally, provide information about the structure and function of the cells within an organ or tissue.

"One of the challenges of using different imaging techniques on a tissue sample is comparing the different data," Ford explains. "We want to make sure we are comparing apples to apples, so we want to identify contrast agents that are visible using multiple imaging equipment."

Ford's research lab has a strong foundation in preclinical micro-CT imaging of the lung to develop multi-energy contrast-enhanced micro-CT imaging protocols using iodine and xenon as contrast agents to visualize the blood vessels and airways respectively. She has also developed new imaging techniques on the BioMedical Imaging and Therapy (BMIT) beamline of the Canadian Light Source (CLS) synchrotron facility in Saskatoon, Saskatchewan. These include the first imaging of xenon as a contrast agent using K-edge subtraction (KES) and the first images using respiratory signals from a rodent to trigger image acquisition during specified respiratory phases. Ford's techniques for micro-CT and on the BMIT beamline will enable in vivo quantitative analysis of structure, physiology and function in rodent organs and tissues.

Ford explains her method: "We will introduce contrast media or staining to visualize

the same organ features under different imaging techniques. For in vivo imaging, we traditionally use iodine to visualize the blood vessels in the micro-CT and in KES synchrotron imaging, but this contrast agent is not used for optical imaging. To correlate X-ray and optical techniques, possible contrast agent candidates include gold and silver nanoparticles and CdSe/ZnS quantum dots, which are nanoparticles with a metallic cadmium selenide core and a zinc sulphide shell. We expect all of these materials will be visible in the synchrotron and micro-computed tomography images. Both the silver nanoparticles and quantum dots have been established as optical markers."

Synchrotron imaging will be performed at the CLS facility using a novel spectral KES technique. For this technique, two images are obtained with different X-ray energies and then the images are subtracted. The energies selected are above and below the K-edge of the nanoparticle contrast material—K-edge is the energy at which X-ray absorption increases dramatically for a given material. Subtracting the images highlights the areas containing the nanoparticles.

The UBC Centre for High-Throughput Phenogenomics (CHTP), where Ford is the director, has two micro-CT scanners—one suitable for imaging live rodents and one for imaging excised organs and tissues. The CHTP also houses an optical projection tomography machine, which produces 3D images of fluorescently labelled tissues, and a white light laser confocal microscope with multiple laser sources.

The novelty of this project includes synchronizing the image acquisition with physiological signals at the BMIT beamline and using a world-wide unique spectral KES technique. The synchrotron will enable very accurate measurements, which will be compared with in vivo micro-CT, ex vivo micro-CT, OPT and microscopy measurements. All together, these data will provide a more complete picture of how an organ functions and identify regions of an organ that are not functioning properly.

➔ To learn more about Dr. Nancy Ford's research, read the article "In Vivo Imaging—Fascinating Voyage of Discovery" in the fall 2012 issue of *Impressions* online at bit.ly/2aT3Sgs

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

Online Stories Worth Clicking



Dr. HsingChi von Bergmann featured on UBC's Institute for the Scholarship of Teaching and Learning website.

On the Effects of Progress Testing

Professional schools in, for example, medicine, law, pharmacy and dentistry have a mandate to establish a competency-based education. But in reality, according to Dr. HsingChi von Bergmann, it's not clear how that competency actually gets assessed. Von Bergmann, who is an associate professor in the Faculty of Dentistry and an expert in science education research, experimented with Progress Testing, where one exam containing 150 to 200 multiple-choice questions was designed to map all the cognitive knowledge domains expected of a competent graduate. The test was given to all students in the DMD program, regardless of their current year, to benchmark their progress. Results showed that over the four years of classes the knowledge domains increased. It also showed that the variances among students within a class decreased as students progressed through years. Moreover, Progress Testing appears to help students identify areas of learning where they are struggling, provide timely feedback to learning, and alleviate test anxiety due to its similarity to the testing format used by the National Dental Examining Board of Canada. Progress Testing is now part of the assessment system for the new DMD curriculum.

Read more about von Bergmann's research using Progress Testing in a story featured by UBC's Institute for the Scholarship of Teaching and Learning at bit.ly/29j99iE



"The Rhythm of Our Hearts," video entry and winner of Artodontia.

Cardiac Art Competition 2016 Winners

Traditionally, first-year dental students compete in an annual contest to artistically conceptualize the human heart and circulatory system. Up until this year, Dentistry participants submitted their art entries in the Faculty of Medicine's Heartfelt Images contest

alongside the medical students with whom they took Faculty of Medicine courses for their biomedical science education.

But this year, since the biomedical science is now taught by the Faculty of Dentistry completely within the renewed Dentistry curriculum (DENT 410, Fundamental Medical Sciences), dental students in the cardiovascular block founded their own cardiac art competition, Artodontia.

Students love the juried competition because it engages their creative side. It is also popular with faculty members—especially with those who serve as judges.

View, watch and hear all the cardiac art competition entries at bit.ly/21zOCYE



Dr. Kavita Mathu-Muju

Federal Programs Can Do More for Dental Health in the North, Says UBC Dentistry Researcher

A new study, co-authored by Dr. Kavita Mathu-Muju, published in the *Canadian Journal of Public Health*, lauds federal program to prevent dental caries in remote Inuit and First Nations communities and calls for its expansion. Mathu-Muju is a specialist in pediatric dentistry and an assistant professor in the Department of Oral Health Sciences.

Read the story on *CBC News North* at bit.ly/2bz8JmZ



UBC Vancouver Summer Program 2016

On July 18, 2016, 32 dental students from six Chinese universities arrived in Vancouver to

participate in a four-week educational program in the Faculty of Dentistry. This was the third time Dentistry offered courses in UBC's Vancouver Summer Program, an initiative of the Office of the Provost and Vice-President Academic.

View the photo gallery of students receiving their certificates from Dr. Edwin Yen, then acting dean of UBC Dentistry, at bit.ly/2aW6IXz

ADEA Awards Fellowship to Dentistry's Education Expert

Dr. HsingChi von Bergmann has been selected as the 2016 recipient of the American Dental Education Association (ADEA)/ADEAGies Foundation Education Fellowship. The fellowship allows for a two- to three-month experience working at the ADEA office in Washington, DC. Over the next year, working with colleagues at the ADEA Policy Center, von Bergmann aims to further dental educators' understanding in the areas of competencies assessments.

Read the story on *UBC Dentistry News* at bit.ly/2cafVUO



UBC Dentistry Ranks #1 in Canada Again!

For the second year in a row, according to the latest results of QS World University Rankings, UBC Dentistry remains Canada's top dental school. Of the top 50 dental schools worldwide, UBC Dentistry shot up from 26 last year to 22 this year. The QS methodology for ranking is based on an assessment of 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

Prestigious Public Health Award to UBC MPH/DPH Student



Donna Lee

Graduate student Donna Lee won the highly regarded Dr. James Rossiter MPH Practicum Award. The award is sponsored by the Canadian Institutes of Health Research (CIHR) Institute of Population and Public Health in partnership with the Public Health Agency of Canada. Its purpose is to strengthen public health capacity in Canada by financially supporting the current and future generations of public health policy makers and practitioners.

Lee, a dental hygienist, is undertaking UBC's combined graduate program: the Master of Public Health (MPH) degree from the School of Population and Public Health combined with a diploma in Dental Public Health (DPH) from the Faculty of Dentistry. Lee won the award for her MPH/DPH practicum project. She is the only recipient from UBC this year.

Her project bridges both public health and dental public health research to support the development, implementation and evaluation of a new curriculum in Indigenous cultural competency for the Dental Hygiene Degree Program (DHDP) at UBC. This curriculum may also be adapted for the UBC Doctor of Dental Medicine (DMD) program.

Retirements: Part-Time Faculty

The Faculty of Dentistry is saying farewell to two clinical assistant professors who are retiring after many years of commendable performance and service.



William Brymer, DDS;
Clinical Assistant Professor;
Clinic Group Advisor

Dr. William (Bill) Brymer's love of teaching, his dedication to student learning and his desire to improve the oral health of marginalized people has been a constant presence at the UBC Faculty of Dentistry since he was appointed as a part-time clinical instructor in 1975. Whether participating in admissions interviews, scurrying around the oral health centre as clinic liaison or advising a student about a troubling patient, Dr. Brymer has been an encouraging and inspiring educator in our Faculty. He thrived on the satisfaction and reward of contributing to the education and mentorship of aspiring young dentists.

Following graduation from Dalhousie University with a DDS in 1967, Brymer practised as a family dentist in Toronto and Vancouver. After his retirement from private practice in 2007, he took on the duties of a clinical educator at UBC Dentistry, and participated as an eager student himself in the UBC Faculty Certificate Program on Teaching and Learning in Higher Education.

Brymer has instructed in most of the clinical-simulation modules and in the Integrated Care Clinic. He has capably organized weekend volunteer clinics for dental hygiene and dental students at venues that include the Richmond Hospital, Vancouver Native Health Society and Ray-Cam Co-operative Centre. In addition, he has accompanied students providing much needed dental services to First Nations families in rural BC and to populations in various locations globally. Brymer is the recipient of several teaching awards and is a Fellow of the American College of Dentists.

Throughout his career, Dr. Brymer has been supported and encouraged by his wife, Lois, and daughters, Molly and Jenny.



Mel Schneider, BSc, DDS;
Clinical Assistant Professor;
Clinic Group Advisor

Dr. Mel Schneider has a great love of dentistry and even more enthusiasm for teaching future colleagues. His early passion for teaching was such that he joined the UBC Faculty of Dentistry as a clinical instructor in 1978, just four years after graduating with his DDS from the Faculty of Dentistry at McGill University. Following graduation from McGill and completing a general practice residency program at the Royal Victoria Hospital in Montreal, He practised as a general dentist in Vancouver for more than 30 years.

In addition to his dental practice, Dr. Schneider was an enthusiastic member of orthodontics, prosthodontics, occlusion and periodontics study clubs. He also helped pioneer the use of Quadra Dental Systems—one of the first computerized programs (based on a Windows platform) for dental purposes—which was used in the faculty practice at UBC for a number of years.

In 2009, Schneider graduated from part-time instructor to taking on the more substantial role of a clinical advisor. As clinical advisor, he oversaw student clinical groups, monitored and managed student progress, assisted with patient management, participated in clinic quality assurance and provided a clinic liaison role to support faculty and students in the Integrated Care Clinic. Schneider has been highly regarded by the countless students who have benefited from his clarity, kindness, insight and clinical acumen.

In 2013, to further enhance his skills as an educator, Schneider successfully completed UBC's one-year Faculty Certificate Program on Teaching and Learning in Higher Education.

In addition to dentistry and student learning, Dr. Schneider has enjoyed skiing, tennis, telling jokes and storytelling. He has been supported throughout his remarkable career by his wife, Reisa, and children, Carly, Pamela and Amanda. He has one beautiful granddaughter, Emily, and another on the way.

Promotions: Full- and Part-Time Faculty



Jolanta Aleksejūnienė, DDS,
MSc, PhD

Jolanta Aleksejūnienė has been promoted to the rank of associate professor with tenure in the Department of Oral Health Sciences. Dr. Aleksejūnienė is also chair of Preventive and Community Dentistry.



Denise Laronde, Dip DH, MSc (Dental
Science), PhD

Denise Laronde has been promoted to the rank of associate professor with tenure in the Department of Oral Biological & Medical Sciences.



Susan Schmitz, Dip DH, MEd, RDH

Susan Schmitz has been promoted to the rank of clinical associate professor in the Department of Oral Biological & Medical Sciences.



Diana Lin, BHE, Dip DH, MSc, MPH

Diana Lin has been promoted to the rank of clinical associate professor in the Department of Oral Biological & Medical Sciences.



Ya Shen, DDS, PhD

Ya Shen has been promoted to the rank of associate professor with tenure in the Department of Oral Biological & Medical Sciences.



Adriana Manso, DDS, MS, PhD

Adriana Manso has been promoted to the rank of clinical associate professor in the Department of Oral Biological & Medical Sciences.



Emil Sztopa, DDS

Emil Sztopa has been promoted to the rank of clinical assistant professor in the Department of Oral Health Sciences.



Andrea Esteves, DDS, MSc

Andrea Esteves has been promoted to the rank of clinical professor in the Department of Oral Health Sciences. Dr. Esteves is also associate dean, Clinical Affairs, and clinic director of the Nobel Biocare Oral Health Centre.



Penny Hatzimanolakis, MSc, RDH

Penny Hatzimanolakis has been promoted to the rank of clinical associate professor in the Department of Oral Biological & Medical Sciences.

These promotions are significant career achievements. For Aleksejūnienė, Laronde and Shen, it reflects their individual commitment to research, teaching, graduate supervision and service. For Esteves, Hatzimanolakis, Lin, Manso, Schmitz and Sztopa, it reflects their individual ongoing hard work and commitment to supporting UBC Dentistry's education mandate.

Assignments: Full-Time Faculty



Fernanda Almeida, DDS, MSc, PhD

Fernanda Almeida has been appointed director of the Frontier Clinical Research Centre. Dr. Almeida is an associate professor in the Division of Orthodontics, Department of Oral Health Sciences.



Joy Richman, DMD, MDentSci, PhD,
Cert Ped Dent

Joy Richman assumed the role of chair of the Division of Pediatric Dentistry. Dr. Richman is a professor in the Department of Oral Health Sciences, Cell and Developmental Biology Group.



Read faculty members' bios and CVs at dentistry.ubc.ca/fac_bio

Appointments: New Full-Time Faculty



Dr. Vincent Lee

Vincent Lee, DDS, MSc/Dip Pros, has joined the Department of Oral Health Sciences as an assistant professor in the Division of Prosthodontics. Dr. Lee received his undergraduate degree in 2000 from UBC and his Doctor of Dental Surgery from the University of Western Ontario in 2004. Lee then practised general dentistry in the Greater Vancouver area until 2013, when he began his specialty training at UBC, completing a combined Diploma in Prosthodontics and Master of Science degree in 2016.

During his graduate program, Lee received the Association of Prosthodontists of Canada award for Academic Achievement, the Jamie Kaukinen Entrance Scholarship in Prosthodontics and the BC Society of Prosthodontists Entrance Award. Also, based on his MSc project, he was selected to receive one of three Research Fellowships awarded in 2014 by the American College of Prosthodontics Education Foundation.

Dr. Lee has taught at both the undergraduate and graduate levels at UBC Dentistry, and has been a clinical instructor and prosthodontics consultant in the Integrated Clinical Care clinics. His main research area is the use of an acrylic repositioning stent during intensity-modulated radiation therapy for head and neck cancer patients.

Lee's teaching plan at UBC Dentistry, at the undergraduate level, includes clinical prosthodontic consultant for Years 3 and 4, and module coordinator for DENT 430 Fixed Prosthodontics for Year 3. He will also be involved with teaching occlusion at both the undergraduate and graduate levels.



Dr. Nesrine Mostafa

Nesrine Zakaryia Mostafa, BDS, MSc, MSc/Dip Pros, PhD, FRCD(C), has joined the Department of Oral Health Sciences as assistant professor in Prosthodontics. Dr. Mostafa received her Bachelor of Dental Surgery from Alexandria University (Egypt) in 2002. She completed a Master of Medical Sciences (Dentistry and Biomedical Engineering) from the Faculty of Medicine and Dentistry, University of Alberta (UAlberta), in 2008, as well as a Doctor of Philosophy (Medical Sciences–Dentistry) in 2013. In 2016, she completed a combined Diploma in Prosthodontics and Master of Science degree at UBC. Mostafa has taught as a clinical instructor at UAlberta as well as UBC, where she has also been prosthodontics consultant in the Integrated Care Clinic.

While at UAlberta, Mostafa received several prestigious awards and scholarships, including the Izaak Walton Killam Memorial Scholarship, President's Doctoral Prize of Distinction and a CIHR–Frederick Banting and Charles Best Canada Graduate Scholarship. At UBC, she received a BC Society of Prosthodontist Entrance Award, American College of Prosthodontists Resident Poster Session award and DMD Graduate Teaching Assistant Award.

Mostafa's research interests include the marginal fit of lithium disilicate crowns, bone regeneration therapies, the capacity of human gingival fibroblasts for periodontal regeneration, and the assessment of oral health in osteoporotic females. She has published extensively in journals such as *Journal of Cranio-Maxillofacial Surgery* and *Journal of Biomedical Materials Research*, to name just a few.

Her teaching plan at UBC Dentistry, at the undergraduate level, will include clinical prosthodontic consultant for Years 3 and 4 and coordinating Restorative Dentistry II. At the graduate level, she will teach Prosthodontics I and II.



Dr. Siddharth Vora

Siddharth (Sid) Vora, BDS, MSD, PhD, has joined the Department of Oral Health Sciences as assistant professor in the Division of Orthodontics. Dr. Vora obtained his dental surgery degree from the University of Mumbai, India, in 2002; a Doctor of Philosophy (Oral Biology) in 2009 from Boston University; and a Master of Science in Dentistry and a Certificate in Orthodontics from the University of Washington (UW) in Seattle in 2012.

Dr. Vora has been a faculty member at UW since 2013, where he taught undergraduate dental students and also trained orthodontic residents. He was also a senior Fellow at Seattle Children's Hospital Research Institute. While at UW, Dr. Vora received a National Institutes of Health T90 Research Training Award and a Postdoctoral Fellowship Award from the American Association of Orthodontists Foundation. An active member of many orthodontic and dental research organizations, he also worked part-time in private orthodontic practice in the Seattle area.

Vora's priorities at UBC are to establish and develop his research program in craniofacial growth and in graduate orthodontic teaching. His primary research interests lie in the comprehensive understanding of craniofacial growth and development, with a focus on the genetic, epigenetic, morphogenic and molecular controls on cranial-base and mid-face growth. His work will utilize both mouse models and human data to investigate developmental ontogeny and mechanisms.

The Faculty's ongoing curriculum renewal initiative will benefit from Dr. Vora's fresh ideas and innovative approaches for both undergraduate and graduate orthodontic education, to better integrate current and future clinical practice with biological paradigms.

Faculty of Dentistry External Awards and Recognition in 2015 - 2016

RECIPIENT	AWARD/RECOGNITION
Dr. Greg Chang, Clinical Instructor	Inducted into the American College of Dentists as a Fellow
Dr. Susan Chow, Member, UBC Dentistry Board of Counsellors	Merit Award, British Columbia Dental Association
Dr. Ingrid Emanuels, Clinical Associate Professor	Inducted into the American College of Dentists as a Fellow
Faculty Liaison Team: Dr. Leandra Best, Clinical Professor and Associate Dean, Academic Affairs; Dr. Nancy Black, Clinical Associate Professor; Dr. Jim Richardson, Clinical Associate Professor; Dr. HsingChi von Bergmann, Associate Professor	First Place poster award for "Building an Innovative, Competency-Based Assessment System to Support a Renewed, Learning-Based, Spiraled Dental Curriculum at the University of British Columbia" (Best L, Black N, Richardson J, von Bergmann H), American Dental Education Association, Commission on Change and Innovation in Dental Education
Dr. Allan Hovan, Clinical Assistant Professor	Distinguished Service Award, British Columbia Dental Association
Dr. John Hung, Clinical Assistant Professor	Inducted into the American College of Dentists as a Fellow
Dr. Matt Illes, Clinical Instructor	Merit Award, British Columbia Dental Association
Dr. Garry Lunn, Clinical Assistant Professor	Honorary Membership, British Columbia Dental Association
Dr. Michael I. MacEntee, Professor Emeritus of Prosthodontics and Dental Geriatrics	Fellowship, Canadian Academy of Health Sciences
Dr. Lucy Marzban, Associate Professor, UBC Department of Surgery, Faculty of Medicine; PBL Tutor, UBC Dentistry	Killam Teaching Prize, University of British Columbia
Dr. Farah Remtulla, Clinical Instructor	Inducted into the American College of Dentists as a Fellow
N. Dorin Ruse, Professor; Chair of Biomaterials	<i>Doctor Honoris Causa</i> , Paris Descartes University
Dr. Charles Shuler, Professor; Dean, Faculty of Dentistry	Distinguished Scientist Award in Oral Medicine and Pathology, International Association of Dental Research
Shunhau To, Program Manager, Geriatric Clinic	Merit Award, British Columbia Dental Association
Dr. Phoebe Tsang, Clinical Associate Professor	Merit Award, British Columbia Dental Association
Dr. HsingChi von Bergmann, Associate Professor	Recipient of the 2016 ADEA/ADEAGies Foundation Education Fellowship, American Dental Education Association
Dr. Bruce Ward, Clinical Assistant Professor	Honoured Member Award, College of Dental Surgeons of British Columbia
Dr. Michelle Williams (posthumously), Clinical Professor	Honorary Membership, British Columbia Dental Association
Dr. Chris Wyatt, Professor; Program Director, Prosthodontics	Distinguished Service Award, British Columbia Dental Association
Donna Lee, MPH/DPH Candidate	Dr. James Rossiter MPH Practicum Award, Canadian Institutes of Health Research Institute of Population and Public Health in partnership with the Public Health Agency of Canada
Dr. Nesrine Mostafa, then MSc/Pros Candidate, now Assistant Professor	Second Place poster award for "Marginal Fit of Conventional and Digital Lithium Disilicate Crowns: An In Vitro Micro-CT Cross-Sectional Analysis" (Mostafa NZ, Ruse ND, Ford N, Carvalho RM, Wyatt CC), American College of Prosthodontists
Dr. Bernardo U. Peres, then MSc Candidate, now PhD Candidate	Third Place, George C. Paffenbarger Student Research Award, for "Nanocrystal Cellulose (NCC) as Reinforcing Agent for Electrospun Nanofibers" (Peres BU, Vidotti HA, Manso AP, Ko F, Carvalho RM), Academy of Dental Materials
Jordan Cheng, DMD 2017 Candidate	Norton Ross Fellowship, International Association of Dental Research
Muizz Wahid, DMD 2018 Candidate	First Place, Junior Category, 2015-2016 Student Research Award for "Dosimetry Analysis of Panoramic-Imaging Devices in Different-Sized Phantoms" (Wahid M; Nancy Ford supervisor), Canadian Association for Dental Research and the Network for Canadian Oral Health Research

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



Muizz Wahid and Dr. Nancy Ford at the American Association of Dental Research (AADR)/Canadian Association of Dental Research (CADR) meeting in Los Angeles, California, in March 2016.



Dr. HsingChi von Bergmann at the American Dental Education Association (ADEA) office in Washington, DC. She is the recipient of the 2016 ADEA/ADEAGies Foundation Education Fellowship. Read more on page 8.

Retirements: Full-Time Faculty

The Faculty of Dentistry is saying farewell to two professors who are retiring after many years of commendable performance and service.



Rosamund Harrison, DMD, Cert PedDent, MSc, MRCD(C); Professor and Head, Department of Oral Health Sciences

Following general practice in Saskatchewan, appointment as a lecturer in child dental health in London, England, graduate school in the United States, and an academic position in the Faculty of Dentistry at Dalhousie University in Halifax, Dr. Rosamund Harrison arrived at the University of British Columbia in 1989 and launched into renewing how pediatric dentistry was taught in the DMD program.

Having extracted far too many teeth from children young enough to wear diapers, Dr. Harrison resolved to develop interventions that would decrease the extent and severity of dental caries in children. She has researched externally funded interventions with Vietnamese and Indo-Canadian moms and tots, low-income high-risk pregnant women and First Nations communities. She has collaborated with service providers and stakeholders from dental hygiene, dental public health, psychology, nursing, dentists in private practice, and most importantly, from the target communities themselves.

Harrison has been chair of the Faculty's Division of Pediatric Dentistry since 1993 and head of the Department of Oral Health Sciences since 2012. She was instrumental in developing the UBC specialty program in Pediatric Dentistry. She has also enjoyed serving on the National Dental Examining Board, the Commission for Dental Accreditation and committees of the BC Dental Association.

In 2004, the Canadian Dental Association awarded Dr. Harrison and her co-investigators an Oral Health Promotion Award, and in 2006, she received honorary membership in the BC Dental Association in recognition of her health promotion activities. She

received a UBC Teaching Excellence Award in 1995 and was thrilled to be the 2010 recipient of the 3M ESPE-ACFD National Dental Teaching Award. Harrison feels privileged to have had the opportunity, in her decades-long academic career, to enable graduating DMD and pediatric dental specialty students to enter practice with the compassion and skills needed to provide quality, caring dental services to Canadian children.

Dr. Harrison thanks her dear colleagues and friends for their encouragement; her late parents and her sisters, Christine and Julia, for their love; and her beloved husband Bill for always being there.



Alan A. Lowe, DMD, Dip Orthodont, PhD, FRCD(C), FACD; Professor and Chair, Division of Orthodontics; Director, Frontier Clinical Research Centre

When Alan Lowe entered the John B. Macdonald Building as a bright-eyed 20-year-old in 1968, some six months after the new building opened, little did he know that not only would he complete his undergraduate dental degree there, but he would also serve as a full-time faculty member for 40 years.

Dr. Lowe retired on June 30, 2016, as professor and chair, Division of Orthodontics. Over the course of his career, he served as head of the Department of Clinical Dental Sciences, chair of Undergraduate Admissions and director of the Frontier Clinical Research Centre (FCRC), and as a council member of the College of Dental Surgeons of British Columbia. Lowe developed the most comprehensive undergraduate orthodontic program in North America and was involved in the orthodontic training of more than 2,000 general dentists during his career at UBC. And, with a team of faculty members, graduate students, postdoctoral fellows and staff, he established the FCRC, a leading research centre in the field of oral appliance use for the treatment of sleep disordered breathing.

Lowe lectured both nationally and internationally, with a particular emphasis on the etiology and treatment of snoring and obstructive sleep apnea. He presented 172 invited lectures and 158 continuing dental education courses, and published 145 papers, 180 abstracts and 15 book chapters.

Lowe's research activities were funded by provincial and federal governments. His published cephalometric standards for sleep apnea subjects have been extensively used by physicians, dentists,

orthodontists and sleep specialists. Evaluations of long-term treatment effects and the cephalometric predictors of good and poor responders were published. Abnormalities in tongue muscle activity and changes in jaw position during sleep were evaluated in both control and sleep apnea subjects. The results of crossover trials of oral appliances when compared to nasal continuous positive airway pressure (CPAP) impacted the worldwide initiation of oral appliance use in the field.

Dr. Lowe invented the Klearway appliance, which has improved the quality of life for over 40,000 patients worldwide. Patented and licensed by UBC, the royalties received support the ongoing activities of his research team. In addition, a covert compliance monitor for intraoral use, as well as a remote-controlled titration device used during overnight sleep studies, have been developed and patented.

Lowe was one of the founding members of the American Academy of Dental Sleep Medicine (AADSM) and served on the board of directors, as research advisor to the board and as chair of the Awards Committee. He was a recipient of the UBC Alumni of Distinction Award, the AADSM Pierre Robin Academic Award, the Killam Teaching Award, the College of Dental Surgeons of British Columbia Distinguished Service Award and the German Society of Dental Sleep Medicine Meirer-Ewert Award for career achievement.

Alan Lowe retired with a strong and well-celebrated sense of the successful completion of his academic career and lively anticipation of new directions to pursue and enjoy. He expressed his sincere gratitude for the enthusiastic team of clinical and research staff, students, faculty colleagues and UBC administrators who contributed to the success of his career. He also expressed a debt of gratitude to his family for their consistent love and ongoing support.



Drs. Rosamund Harrison and Alan Lowe, during their retirement party, are flanked by colleagues Drs. Joy Richman (L) and Virginia Diewert (R) at Sage Bistro on June 23, 2016.





UBC DMD Admissions— DIVERSIFIED ASSESSMENTS SEEK ROUNDED CANDIDATES

BY HEATHER CONN

Two UBC Dentistry experts weigh in on their respective key areas used to assess Doctor of Dental Medicine (DMD) candidates at an admissions open house. Final applicants rotate through four problem-based learning (PBL) sessions in the morning and eight mini interviews (MIs) in the afternoon.

Beyond clinical abilities, a grade point average and test scores, how can you tell who will have the people skills to view a dental patient as a whole person, rather than just someone with a tooth problem to fix?

That's part of the challenge facing UBC Dentistry in wanting to attract "the best and the brightest"—in the words of Dr. David Sweet OC, professor of dentistry and chair of DMD admissions—to its Doctor of Dental Medicine program.

Traditionally, the standard admissions process has involved the same one to three interviewers asking all of the questions, one applicant at a time. Prospective students do not rotate to different rooms, nor face new questioners. Recognizing the limitations of this approach, UBC Dentistry has chosen solo and

group dynamics with more variety and more interviewers.

Problem-Solving Team Players Wanted

Imagine eight would-be dental students, all strangers to each other, discussing a case study they've just read: *A 50-year-old patient had an antibiotic (two grams of amoxicillin) administered orally 45 minutes ago. Sitting in your waiting room, she tells your receptionist that she is feeling itchy. Then she complains that her throat is tightening. She can't breathe. Her lips turn blue. What will you do next?*

How would you determine which students would make the best dentists based on their

interactions and responses in a PBL session?

"I don't think there's some magical process that guarantees you'll grant admission to the perfect student," says Leandra Best, a UBC Dentistry clinical professor and associate dean of Academic Affairs. Best oversees the problem-based learning process for admissions that is used to screen DMD applicants.

During each rotating 45-minute PBL session, each applicant is assessed by two different faculty, so are seen by eight faculty members overall. For each of four different PBL case studies, the two faculty tutors facilitate interactive discussions among a group of seven to eight applicants. This process is intended to provide a clear picture not only of someone's professional abilities, but their situational changes in behaviour.



Dr. Leandra Best

Applicants are graded on their potential ability to achieve professional competencies, including “non-cognitive traits.” Beyond reasoning, problem-solving and ability to follow instructions, other factors are assessed, such as group dynamics, body language, tone of voice, listening skills and intuitive ability.

Problem-based learning, offered at UBC Dentistry for more than two decades, encourages student-driven inquiry and active participation. It is designed to help students develop self-motivated, lifelong learning skills and to use “critical and analytical thinking, to assess, diagnose and manage complex cases,” according to a fall 2010 edition of *Impressions*.

Best points out some of the considerable benefits this assessment offers compared to standardized formats:

- The carefully designed problems are created to evoke empathy, professionalism and ethical decision-making, requiring applicants to be intuitive, not just logical; after all, a lack of “people skills” may be far more challenging to remediate than technical abilities. Therefore, the scenarios not only address the biomedical and clinical sciences, but the behavioural sciences as well.
- Since applicants are not assessed on knowledge of case content, they can’t prepare for the sessions by memorizing any case material.
- Applicants perform in a group setting, similar to working in a dental practice.
- Examiners can observe applicants in four different group dynamics, including how they listen, reason and speak to, and with, a range of personalities.

“We can see if someone is being dismissive or

bored, is rushing and impatient, being dominant and overtaking, and not playing as a good team player,” Best says.

Since eight people assess the applicants, this minimizes the bias that might occur with just one or two examiners, she adds. Each UBC PBL examiner marks applicants independently. The grades are averaged; if there’s a big variance, Best will interview the assessors. She reaffirms to them: “You’re looking for people who have the potential to think, act and shine as dentists. It’s more than just clinical psychomotor/technical skills.”

Best believes UBC Dentistry is the only dental faculty in Canada that uses problem-based learning to screen applicants in the admissions process.

Multiple Mini Interviews for More Exposure

After investigating numerous interview techniques, Dr. Karen Gardner, clinical dentistry professor and director of Integrated Care Clinics, determined that the multiple mini interview (MI) system with a variety of examiners would provide a fairer, more reliable method of assessing DMD candidates than standard one-hour or longer interviews with only one or two interviewers. (Eighteen trained faculty volunteers, including two backups, provide MI interviews for UBC Dentistry.) As UBC’s chair of DMD dental admissions interviews, she introduced a new recruitment format in 2012 for DMD applicants: each candidate rotates alone through eight 10-minute interviews with a different lone faculty volunteer each time.

It was felt that the MI technique, combined with Best’s problem-based learning sessions, would build a solid psychological, professional and ethical profile of a candidate, increasing the chances of accepting a stellar, well-rounded candidate. Observing how people behave both on their own in an MI and in a group PBL setting is invaluable, Gardner and Best both agree. Otherwise, a standard interview can focus on someone’s well-crafted persona and academic achievements, rather than picking up on character flaws.

For example, Gardner points out, a brilliant academic student who’s a sports hero might “put on a show” and manipulate a single interviewer, trying to read the questioner’s face and respond accordingly. This interaction wouldn’t reveal that he balks at authority and doesn’t take criticism well. Similarly, a caring introvert might be overlooked. The skilfully designed scenarios used in both MI and problem-based learning help to prevent such limited assessments and to unearth less desirable qualities.

Each MI session addresses specific traits such as communication abilities, demeanour, empathy and sympathy. Immediately after each MI, the interviewers rank every applicant between 1 and 7, with 7 as the “most appropriate” response and 1 as “least appropriate.” If a candidate scores high in one session and very low in another, the overall effect in their calibrated score is minimal, Gardner says.

Of nine other dentistry schools in Canada, four use the MI process, four use the Canadian Dental Association standard structured interview, and one uses a semi-structured format, Gardner says. The standard process involves situational or behavioural questions from two to three trained interviewers, each question designed to assess one of seven competencies: communication, conscientiousness, integrity, judgment and analysis, self-control, sensitivity to others, and tact and diplomacy. In a survey of 48 successful UBC DMD applicants that Gardner conducted, they overwhelmingly preferred the MI over a standard panel interview, saying the former was more fair and reliable.

“If they [applicants] blow it on one session, they can make it up in another,” she says. “In a

standard interview, if you get off on the wrong foot with the interviewers or they take a dislike to you, you're sunk."

For structured interviews, students can see previous questions posted on Facebook and can take courses to prepare, Gardner adds. But applicants can't study for, or cheat on, MI scenarios used for DMD admissions at UBC: she, the dean and the admissions committee write 24 new ones each year.

"With regular interviews, it's so easy to rehearse your answers," says Kaitlin Olson (DMD 2017), who went through the MI process at UBC in 2013. She found most of the scenarios "very straightforward" and adds, "They [interviewers] got a fairly good sense of who I was."

Kiavash Hossini (DMD 2017), who also went through the MI process at UBC in 2013, says he prefers it to the standardized approach. "If you don't connect with one interviewer, you have other chances. You can talk to other people. [With MI] they look for more aspects of a person."



Dr. Karen Gardner

"If they [applicants] blow it on one session, they can make it up in another. In a standard interview, if you get off on the wrong foot with the interviewers or they take a dislike to you, you're sunk."

Dental Hygiene Following Suit

Like good dentists, dental hygienists also need excellent people skills beyond high test scores, professional abilities and knowledge. They, too, need to see a patient as a whole person, rather than just a mouth of teeth to be cleaned or fixed.

To help assess these qualities, UBC Dentistry's bachelor degree program in dental hygiene began offering mini interviews for its final candidates in 2015.

These are available two ways: Those who choose the entry-to-practice option (four years on campus) are interviewed in person. Registered dental hygienists seeking to complete their degree, or students who want to complete their degree off campus, are interviewed via Skype. The latter form of interview began in April of this year, conducted by clinical associate professor Penny Hatzimanolakis.

The Admissions Open House

Impressive digital technology and spectacular scenery can certainly "wow" applicants at the DMD Admissions open house. But ultimately, UBC Dentistry's people and culture win the hearts of top students.

"I hear from applicants: 'This is the only place where we've really felt welcome,'" says Dr. David Sweet OC, who serves as open house emcee. "You care. At other places, we're treated like a number." Many of UBC Dentistry's potential candidates have also applied to schools across North America and Australia.

A fan of forensics and related TV shows, Kiavash Hossini (DMD 2017) says that Dr. Sweet's "awesome," "one-of-a-kind" speech at the open house helped him decide to make UBC Dentistry his first choice. "He talked about how they managed to solve a case by the bite imprint on a piece of cheese left at a crime scene." As an architect, Hossini also said he appreciated the multiple walls of windows, natural lighting and venting at UBC's Nobel Biocare Oral Health Centre.

"All the other dental clinics [where he interviewed] were just four walls with a chair, no windows."

To thoroughly inform short-listed candidates, UBC Dentistry began hosting a two-day DMD admissions open house in 2007. This year, there were 96 final applicants; each of three such events held over consecutive weekends in late January and early February was attended by 32 applicants.

On day one, each applicant (with up to two guests) not only hears from the dean and faculty members, but listens to reflections and feedback from first-year students and recent DMD graduates. Three dentistry faculty volunteers provide guided tours of the oral health centre and campus. Applicants visit the computer learning centre and interact with undergraduates working in research labs. During lunch hosted by the dental undergrad society, applicants can meet with representatives of financial institutions. The dean provides a candid presentation on what costs DMD students can expect and what expenses these cover.

On day two, applicants only are invited. They attend problem-based learning sessions in the morning and multiple mini interviews in the afternoon. To help them get ready for these important events, faculty give two separate PowerPoint presentations on day

one. Students learn their role in the process, see a schematic of the interview rooms and receive hints and reassurance.

Sweet says he encourages applicants to approach any dentistry student during the open house and ask them what it's like in the Faculty. He advises current students to be as honest as possible. After all, the Faculty's open house is based on the principle of "informed consent," he says—just as UBC Dentistry rigorously explains a dental procedure, including its risks and benefits, to patients before they agree to treatment. The open house gives as much valuable information as possible to help would-be students make the best choice for them.

This approach has paid off, says Vicki Koulouris, UBC Dentistry's manager of Admissions. "Since we started doing the open house, we have had significantly more applicants, who were accepted elsewhere as well as by us, choose to come to UBC Dentistry. We've seen a huge difference—the number of 'drops' have dropped a lot."

For each open house, 21 UBC Dentistry staff, students and work-study volunteers ensure that activities operate efficiently and on time.

BY STEPHANIE CHOU

In April 2016, nine UBC Dentistry DMD students completed international rotations, thanks to the generous support of the Sinclair Travel Fellowship Program.

One group of DMD 2016 candidates—Drs. Brandon Lee, Jaclyn Brash, Amanda Campbell, Brian Hu and Victoria Rogoschewsky, along with clinical assistant professor Dr. Bill Brymer—travelled to Phuket, Thailand, where they joined students and dentists from the University of Southern California (USC) Faculty of Dentistry. The USC faculty offers a volunteer dental program in collaboration with Ayuda Inc., a not-for-profit organization focused on providing free dental care to underserved communities.

In addition, four then-fourth-year classmates—Drs. Jiya Jung, Alexandra Moore, Fiona Roth and Kevin Urness—worked in Vietnam with Semiahmoo Dental Outreach, a group of volunteer dental professionals originally from South Surrey and White Rock, and the East Meets West Dental Program, which is based in Da Nang, Vietnam. They travelled there with Dr. Ken Stones, founder of Semiahmoo Dental Outreach, and Class of 1987 alumni Drs. Les Ennis, Joan Eaton, David Larsen and William Riddell. The group provided dental care to children in

Duy Xuyen, a rural district in the province of Quang Nam, Vietnam.

These international rotations expose dental students to front-line dentistry in impoverished communities, where they learn a myriad of triage objectives, treatment options and treatment methods. Through mentorship from experienced dentists, these dental students gain intense clinical experience in a global setting, as well as an ethos of philanthropy.

In Vietnam



The UBC Dentistry and Semiahmoo Dental Outreach team at an outreach site in Vietnam. Semiahmoo Dental Outreach works with local organization East Meets West, which coordinates outreach programs in rural areas and provides equipment and transportation to the outreach sites.



Kevin Urness and Dr. David Larsen provide care to a patient. Each day dental students were paired with a dentist to assist. This one-on-one mentorship process allowed for direct feedback during treatment procedures. Kevin says, "Participating in the travel clinic was beneficial for my clinical and personal development. Aside from the patients who benefited directly from treatment, this experience will lead to the treatment of countless others through the interest it inspired for volunteer dentistry."



Fiona Roth provides treatment to a pediatric patient. For Fiona, differences in culture and language were secondary to providing care and making connections with her patients. "My skills and confidence improved quickly with the mentorship of the dentists. I left with a newfound gratitude and desire to give back to a global community."



Alexandra Moore treats one of the 600 children seen over the course of three and a half days. Services such as restoration, sealants, extractions and preventive care were provided.



Fiona Roth, Alexandra Moore and Kevin Urness take a moment from their 10-hour work day to smile with patients. In many rural areas of Vietnam, there is limited access to any form of dental care. International outreach clinics expose dental students to acute community needs. They are able to bring this knowledge into their future practices.



In Thailand



Victoria Rogoschewsky, a fourth-year dental student at the time, assists with treatment at the Patong Hospital in Phuket, Thailand. Over 300 patients were treated from April 14 to 26, 2016. Being part of the high level of organization and teamwork that is required, as well as focusing on patients and their dental problems, provided a meaningful experience for the dental students volunteering in a global capacity for the first time.



Jaclyn Brash provides care to a young patient in a makeshift clinic in the Patong Hospital, where chairs served as an operator. Since the clinic was set up in spaces on two separate floors of the hospital, dental volunteers had to exercise particular care in moving instruments between the two locations. And, having had their lithium batteries confiscated because the voltage purportedly exceeded airport regulations, the resourceful team used power-tool batteries for their portable X-ray unit.



Brandon Lee assists with treatment, helping to support a community in need. Participating in collaborative volunteer dental programs such as Ayuda Inc. also gives UBC Dentistry students like Brandon the chance to discuss patient care and share knowledge with international colleagues.



A patient shows his new smile after receiving treatment at the Patong Hospital. Patient selection was arranged by the local Rotary Club of Patong Beach and the Newport Sunrise Rotary Club, based in California. The patients included refugees from Myanmar and children from three local Thai orphanages.



Dr. Hugh Kim

Exploring the Role of Platelets in Inflammation— A QUEST FOR NON-SURGICAL SOLUTIONS TO GUM DISEASE

BY MARK WITTEN

Gum disease affects nearly half of the adult population in North America. It causes bone and tooth loss, and makes patients more susceptible to diabetes, heart attack and stroke. As a practising periodontist, Dr. Hugh Kim is not at all satisfied with the effectiveness of existing surgical treatments in halting or reversing the progression of severe gum disease. But as a research scientist, Kim is determined and confident that his in-depth studies of the emerging role of blood platelets in chronic inflammation can help lead to better and more rational treatments of inflammatory diseases, including periodontitis.

“Our current surgical treatments try to correct tissues already damaged by disease. These are often not entirely successful in curing the disease because they don’t address the underlying problem that led to the need for surgery. If we find that certain signalling molecules secreted by platelets are promoting active destruction of the gums and we can target or eliminate those molecules, it would improve our ability to develop a less invasive and more effective therapy that wouldn’t involve cutting into someone’s gums,” says Kim, an assistant professor in UBC Dentistry’s

Department of Oral Biological & Medical Sciences and a principal investigator at the UBC Centre for Blood Research.

The Montreal native embodies a special breed of dental clinician–scientist, who is bold in ambition and intent on breaking down the silos between basic research and clinical practice, and between oral health and the health of the entire body. Trained in dentistry at the Université de Montréal and holder of a graduate diploma in periodontics from UBC Dentistry, Kim was also active, productive and ably mentored in top-tier basic research labs for his MSc at UBC, PhD at the University of Toronto and a postdoctoral fellowship at Harvard University, before returning to UBC as full-time faculty to establish his own research lab in 2013.

Kim easily moves back and forth from lab to clinic, armed with the requisite training, skills and knowledge to bridge these two disparate worlds. His well-funded research program at UBC is fuelled by the overriding goal and vision of translating research results into practical, 21st-century clinical applications to directly benefit patients. He’s interested in

chronic inflammation, a central feature of gum disease and many other conditions including heart disease, diabetes, asthma, inflammatory bowel diseases, arthritis and cancer. His focus is on investigating precisely how the one trillion platelet cells in the human body, which have a well-established role in regulating blood clotting, are also key contributors to chronic inflammation.

While the role of platelets in blood clotting is well understood, scientists know much less about how platelets function at the molecular and cellular levels in the inflammatory response and the development of chronic inflammatory diseases. “Platelets are emerging as pivotal components of the body’s inflammatory response. These cells are an abundant source of signalling molecules that are essential for normal immunity and wound healing. Understanding the basic cell biology of platelets and how these cells communicate with their surroundings will help provide us with better understanding of chronic inflammation and could potentially lead to more effective treatments for these diseases,” says Kim.

In his current research, Kim is homing in on platelet factor 4 (PF4), a pro-inflammatory signalling molecule secreted by platelets that he suspects may be associated with gum disease. Other researchers have shown that PF4 is involved in the pathogenesis of coronary artery disease. To find out whether PF4 is a lead actor in the cast of signalling molecules—known as cytokines—that induces the disease progression from gingivitis (gum inflammation) to periodontitis (serious gum infection that damages soft tissue and bone), he is conducting two complementary studies.

The first is fundamental research (with MSc student Mohammad Javaid) that investigates the potential role of PF4 in the progression of gum disease at the biochemical and molecular level. The second, a clinically oriented study (with MSc student Mathieu Brousseau Nault), is examining and evaluating the concentrations of PF4 in platelet and gingival (gum) crevicular fluid samples obtained from dental patients. “We want to see if PF4 levels are significantly higher in patients with severe gum disease than in patients with gingivitis or no gum disease. If so, PF4 could be a useful biomarker to identify patients at high risk of periodontitis at an earlier stage,” he explains.

Until Kim arrived at UBC to begin specialty training in periodontics in 2001, he had no direct experience working in a lab and hadn’t considered pursuing research as a career path. Doing an MSc project in Dr. Don Brunette’s lab, in which he compared the adhesion of connective tissue to different implant surfaces, taught Kim that research could be intellectually challenging and fun at the same time. Together with co-supervisor Dr. Babak Chehroudi, Kim published a journal article showing that rough implant surfaces were associated with more stable connective tissue attachment than smooth implant surfaces and with better integration of the dental implant into soft tissues. “We did a lot of serious work in an enjoyable setting, where humour was a key aspect of doing research,” he says.

Kim was particularly interested in how various implant surface topographies activate different signalling pathways that influence how oral connective tissues respond to dental implants. “The work we were doing triggered my interest in how cell signalling works at a more fundamental level and reinforced my interest in pursuing new knowledge. I recognized then that it would be possible to combine clinical work with basic research,

and that I could have an opportunity to do that by acquiring more in-depth research training,” he says.

At the University of Toronto, Kim did a PhD in cell biology in Dr. Chris McCulloch’s lab as part of the Matrix Dynamics Group in the Faculty of Dentistry. His research focused on the workings of a protein called filamin A and its essential role in cell adhesion, cell spreading and cell survival. Kim received a 2008 IADR Unilever Hatton award for his original findings in this area. “Chris is one of the top dental clinician–scientists in the world, in addition to being an exceptional person and mentor. His lab was an environment in which I was encouraged to pursue new knowledge as a clinician–scientist,” he says.

Before returning to UBC as a researcher and dental faculty member, Kim earned a Canadian Institutes of Health Research (CIHR) Clinician–Scientist Award (three years) that supported his postdoctoral fellowship at Harvard. He joined the lab of Dr. John Hartwig, an internationally recognized expert in platelets, to probe the mysteries of how platelets contribute to the inflammatory process. “It was an ideal environment to study platelet signalling and to learn new methods. I was looking at the mechanism of how platelets secrete cytokines and how the platelet cytoskeleton curtailed the release of an important signalling molecule called transforming growth factor- β 1 from platelets. These studies fully reinforced my understanding that platelets are important for many things, not just blood clotting,” he says.

This set the stage for the creation of his own lab at UBC, where Kim and his students are investigating the mechanisms of how platelets and the cytokines they release contribute to periodontitis and other inflammatory diseases. His CIHR Clinician–Scientist Award has been renewed twice for three-year terms, supporting his research



Dr. Hugh Kim

at UBC and allowing him to devote a larger chunk of his time on campus to periodontal platelet research.

“It’s a fantastic program that allowed me to focus on setting up my lab, recruiting staff and training students, and to have protected time to pursue my research and move it forward faster,” he says.

Kim currently has four graduate students in his lab investigating different aspects of how platelets, platelet-specific cytokines and associated proteins, such as filamin A, participate in inflammatory processes and chronic inflammation. He sets the research bar high for his students as his mentors did for him. In 2015, for example, former fourth-year biochemistry co-op student and current UBC dental student Calvin Biddle, who spent the summer working in Kim’s lab, won the prize for best poster presentation at the UBC Centre for Blood Research Day for his poster titled, “Platelet Factor 4 (PF4) Signalling in Human Gingival Fibroblasts.”

Kim’s current study comparing PF4 concentrations in different dental patient groups is a good example of translational research with promising results. His preliminary findings suggest that this pro-inflammatory signalling molecule is present in significantly higher amounts in patients with severe gum disease. “Platelet factor 4 could potentially be useful as a diagnostic tool for early detection of periodontal disease and a marker for identifying at-risk populations,” he explains.

Early detection could help clinicians to prevent or slow the progression of gum disease in patients at high risk of severe gum disease. Through a better understanding of the role of platelet factor 4 and other platelet-derived signalling molecules in the progression of

severe gum disease at the molecular level, Kim seeks to develop improved therapies to halt gum disease before it causes irreparable damage to the tooth-supporting connective tissues and alveolar bone.

In his basic research study looking at gum disease progression, Kim’s early findings suggest PF4 plays a role in triggering the release by human gingival fibroblasts (cells that make and maintain connective tissue) of MMP-1, an enzyme that breaks down gum tissue. “PF4 may represent a missing link between activated platelets and the release of collagen-degrading enzymes, such as MMP-1, in periodontal disease,” he says.

As Kim gathers more incriminating evidence and uncovers more clues pointing to PF4 as a potential culprit in gum disease, more fruitful avenues for developing treatments open up. The goal would be to arrest these molecules before signals are sent to their enzyme minions to destroy gum tissues. “We want to find ways to shut down molecules that contribute to gum disease with a targeted medication, whether it be a systemic drug or, ideally, one that could be applied locally,” he says.

Now that Kim is learning more about how platelets and their signalling molecules contribute to chronic inflammation in periodontal disease, he hopes to apply this new knowledge to other inflammatory diseases through collaborations with other researchers at the Centre for Blood Research and access to patients with these conditions. He says, “I see a tremendous opportunity to study the cell biology and function of platelets in relation to chronic inflammation in heart disease, diabetes and many other inflammatory conditions. The cure for these diseases is going to rest on a proper understanding of how cells communicate in the development and progression of chronic inflammation.”

‘More Than a Repair Service’ – Roots of Dental Research at UBC

Shortly before he was recruited as the second dean of the Faculty of Dentistry at UBC in 1978, Dr. George Beagrie spoke to an international gathering of dental researchers in Copenhagen about his vision of research and the future of dentistry (read more in the article “The Dynamic Engine that Drives Knowledge Forward”—50 Years of Research at UBC Dentistry” in the spring-summer 2014 issue of *Impressions* online at bit.ly/2d1a7oo). “We have to convince society that dentistry is more than a repair service,” proclaimed Beagrie in his inaugural address as president-elect of the International Association of Dental Research (IADR).

Beagrie believed that strong, productive research programs in dental schools were essential for progressive development of the profession and advances in oral care and overall human health. He put those ambitious ideas into practice by recruiting to UBC a new wave of talented researchers, including Don Brunette, who 25 years later supervised Hugh Kim in his lab and inspired the young MSc student in periodontics to pursue a research career.

As Kim delved deeper into his studies of the newly emerging role of platelets and their signalling molecules in chronic inflammation as a postdoctoral fellow in Boston, he saw how understanding the science of platelets could advance the treatment of gum disease and many chronic inflammatory conditions that go far beyond it. He shared Beagrie’s vision and excitement about what a dental clinician-scientist could accomplish. “I concluded that the more dentists could contribute to scientific knowledge, the better it would be for our profession,” says Kim, who had fittingly earned an IADR award for his research contributions as a PhD student.

Upping the 'Level' of Research Success— TRANSFORMING JBM 300



For over four decades, the Faculty of Dentistry at UBC has fostered sky-is-the-limit research growth. It began with a flourishing climate of opportunity in the mid-1970s, when a small nucleus of new, young faculty members were encouraged to develop their own lines of inquiry. Through the years, this small nucleus has enlarged and those young faculty members have matured into senior researchers with productive areas of investigation. Today, faculty and graduate students contribute to solutions that address the oral and medical health care needs of society well beyond the borders of British Columbia.

With its reputation for research excellence well established, and with its commitment to a Strategic Plan theme of amplifying research productivity, the Faculty of Dentistry is well positioned to expand its rapidly growing and innovative research activity in the areas of biomedical science, biomaterials, community/public health and education.

Such expansion requires infrastructure that will support continued research excellence, along with researcher recruitment and quality student training.

The Faculty of Dentistry proposes an efficient and effective solution: a functional redevelopment of existing space on the third floor (300-level) of the John B. Macdonald Building. This “JBM 300” redevelopment will enhance the Faculty’s world-class reputation, while providing facilities that are also environmentally sustainable and promote healthy living.

A Redeveloped JBM 300

The 300-level redevelopment will both renew existing spaces and reconfigure other areas, bringing all aspects of the third floor up to municipal and provincial building codes, while building future research capacity. The new JBM 300 facility will include:*



Wet Lab Space

- Three modern wet lab spaces for biomedical, microbiological and biomaterials research
- One conference room

Features include a common space where resources are shared (e.g., areas for cell culture and washing up) among research groups.



Dry Lab Space

- Two modern dry lab spaces for education- and community/population-based research
- Three conference rooms

Features include: shared computers; audiovisual technologies to facilitate both direct and virtual interactions with patients, clinicians and policy makers at domestic, national and international institutions; haptic technology (recreates the sense of touch and feeling) to enhance preclinical and dental/dental hygiene student training and to support specialty training in doing implants and correcting dental-facial deformities; and video-capture technology for education research.



Conference Rooms

- The four conference rooms (in the wet and dry lab spaces) to also facilitate small-group learning for undergraduate and graduate students



Faculty Offices

- Renewal of existing offices (i.e., new energy efficient lighting, flooring, paint and furnishings)
- Conversion of select old existing labs into additional office space



Key Infrastructure Improvements

- Emergency power backup to protect scientific equipment containing valuable biological samples
- Photoelectric controlled lighting for energy efficiency
- Updated air exchange to improve air quality and comfort



Health Promotion Features

- A social commons area with kitchen for faculty, students and staff, to promote well-being and support collaboration
- Four upgraded washrooms, two with shower facilities installed to encourage and support those who cycle to work and/or exercise

*The proposed redevelopment project has been identified as a priority in the Faculty of Dentistry's Strategic Plan. The project will be designed in concert with UBC Campus+Community Planning (C+CP) in an asset management process. Final renderings of this project will be developed with C+CP and in consultation with faculty members.

Outcomes and Benefits

Transforming JBM 300 into a rich, modern environment will see existing and future researchers working collaboratively in a dedicated and purpose-built facility with essential equipment. It will expand the Faculty's capability for outstanding biomedical, microbiological, biomaterials and community/population-based research, teaching and knowledge transfer to the next generation of oral health researchers and care providers.



AREA

383 sq. m
(4,210 sq. ft.)

USERS

**researchers
clinicians
patients
students**

RENOVATION COST

\$4,147,000

➤ To find out more about the JBM 300 project and how to support it, contact Jane Merling, director of Development & Alumni Affairs, at 604-822-5886 or merling@dentistry.ubc.ca

HUNDRED for Hundred! Paying It Forward

To celebrate 100 years since the University of British Columbia welcomed its first class of students, the Faculty of Dentistry established centennial bursaries for the next generation of dental professionals.

Alumni have been participating in our “Hundred for Hundred” challenge to donate \$100—a dollar for each year of the university’s centennial—and have challenged their colleagues, classmates and friends to do the same. Many have raised the challenge by donating more than \$100 to further increase support for students.

Supporting student bursaries helps provide more Dental Hygiene and DMD students with opportunities to learn, conduct research and participate in community outreach.

Here are a few comments by alumni about what motivates them to support the dental school of their alma mater. We thank them for their generosity and foresight.



Dr. Joan Eaton, DMD 1987

“The UBC Dentistry DMD Centennial Bursary is a worthwhile cause, which most alumni would be happy to support. What helped motivate me to support the centennial bursary fund is that it’s a relatively small amount. If many people give just \$100, the results can be impressive.”



Diana Lin, MSc 2008

“Everyone should have equal opportunity to pursue the education they desire. I remember how challenging it was to work to pay off tuition and try to do well academically. Bursaries help alleviate some stress related to finance, so students are able to focus more on their studies. Supporting student bursaries like the UBC Dentistry Dental Hygiene Centennial Bursary is just one way to help.”

The Importance of Student Awards



Drs. Alan A. Lowe (L) and Anastasios Rinquinha.

Anastasios Rinquinha, DMD 2016, remembers the day he got braces as an adolescent: “The brackets and wire looked like I had a mountain range inside my mouth.” That day also first piqued his interest in orthodontics. Fast

forward to the present, where Rinquinha is a new dental school graduate and his initial interest in the field of orthodontics remains. He reflects: “I had a severe malocclusion and ended up with a Class I occlusion and what I think is a nice smile.”

Rinquinha was pleasantly surprised at the annual Graduation Luncheon and Award Ceremony this past June when he received seven awards, including the inaugural Dr. Alan A. Lowe Award in Orthodontics.

Student awards recognize scholastic achievement and reinforce the core values of the oral health profession. They provide financial support, while acknowledging hard work and dedication. The Dr. Alan A. Lowe Award in Orthodontics was established in

honour of Dr. Alan Lowe’s recent retirement and his dedication to teaching and research. The award is given to a fourth-year DMD student who demonstrates excellence in undergraduate orthodontics.

Rinquinha hails from Kitimat, a small close-knit community in northwestern BC. He says, “My grandparents came to Canada without knowing the language and with no money in their pockets and were able to make a life. They laid the morals and foundations for who I am today. As I receive this award, I accept it on behalf of my grandparents, parents, brothers, uncles, aunts, close friends and the hometown community, who have supported me over the years.”

It was a touching moment for Rinquinha when Dr. Lowe congratulated both him and his family during the grad luncheon. And he notes that the strong sense of community he experienced in his hometown is mirrored in the sense of home he found at UBC Dentistry among his fellow students and future colleagues.

MOBILE CLINIC MAKES A MOVE

An initiative of UBC Dentistry to deliver oral health services to marginalized communities in the Lower Mainland and across the province will see the purchase of a cargo van with portable dental chairs and all the necessary equipment, rather than the custom-fitted recreational vehicle originally planned.

Though not the original vision for the mobile clinic, the lining is still solidly silver. The Faculty has weighed the pros and cons of this alternate van model over the past 18 months and has determined that the benefits of increasing patient care and student capacity outweigh any drawbacks.

A well-equipped van is a more flexible

option and more cost effective to sustain than a customized recreational vehicle. More manoeuvrable on rural roads, it will be able to travel to more community partnership sites. By carrying many portable chairs, it will allow more dental and dental hygiene students to participate in treatment and education for people in need, in both curriculum-based and volunteer-based outreach rotations.

The plan now is to implement the mobile dental clinic van by spring 2017.

The vision, goals and anticipated impact of the program remain the same:

- communities in need receive essential oral health care and education

- students gain valuable off-campus clinical experience
- students gain a self-realized sense of social responsibility

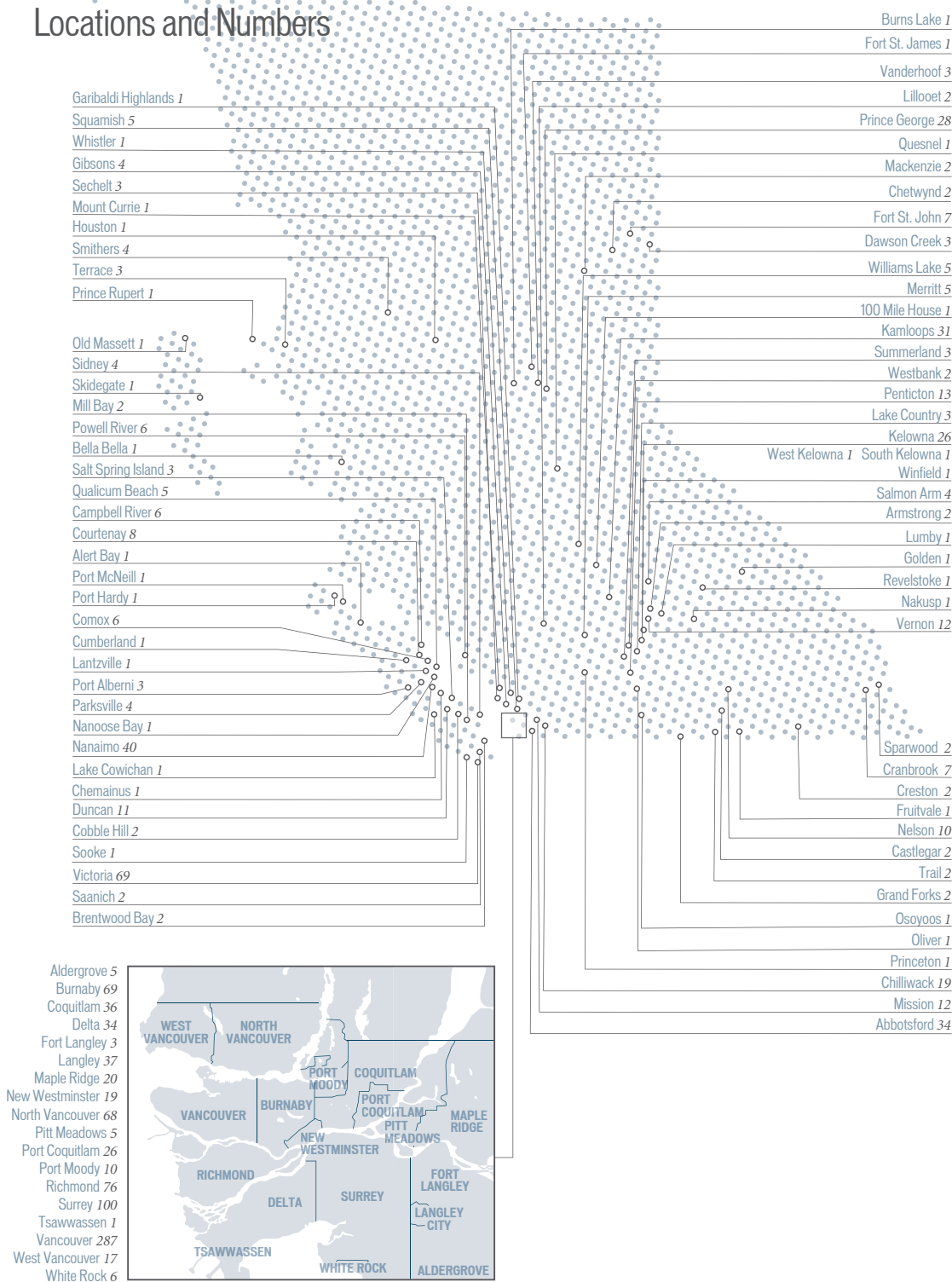
Generous support for the program to date is just under \$400,000 through donations and gifts-in-kind from individuals, corporations and foundations. The goal now is to raise the remaining \$100,000 by spring 2017.

The Faculty is grateful for the work of mobile clinic steering committee members Dr. Bill Brymer, Nadine Bunting and Drs. Ken Chow, David Hemerling, John Hung and Sam Tam.

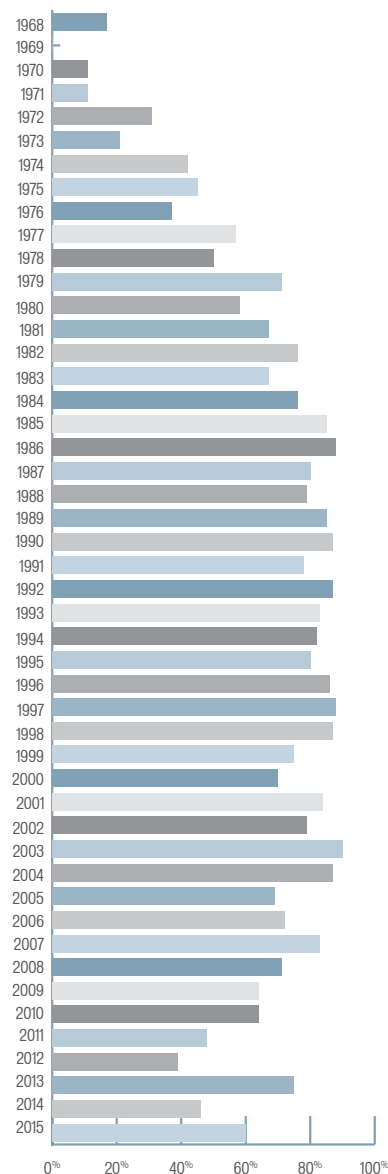
Help take UBC Dentistry on the road to provide essential oral health care and education to people at risk in communities across the province. To learn more about how to support UBC Dentistry’s Mobile Community Dental Clinic, contact the Development Team at 604-822-5886 or dentistry.development@ubc.ca

Where They Are and How Many There Are: UBC DMD GRADUATES CURRENTLY LICENSED IN BRITISH COLUMBIA

Locations and Numbers



Percent by Graduation Year



Aggregate data courtesy of the College of Dental Surgeons of British Columbia and the University of British Columbia Faculty of Dentistry.

Congratulations to the Class of 2016!



The Bachelor of Dental Science (Dental Hygiene) graduation class of 2016.



The Doctor of Dental Medicine graduation class of 2016.



Kevin Urness and Kelvin Leung, DMD graduates.



Ebin Thaliath, Liora Berant and Alexandra Moore, DMD graduates.



Naureen Aftab, Krikor Bebedjian and Parisa Pezeshkfar, DMD graduates.



Hailea Fulljames and Sonia Minhas, BDS (DH) graduates.



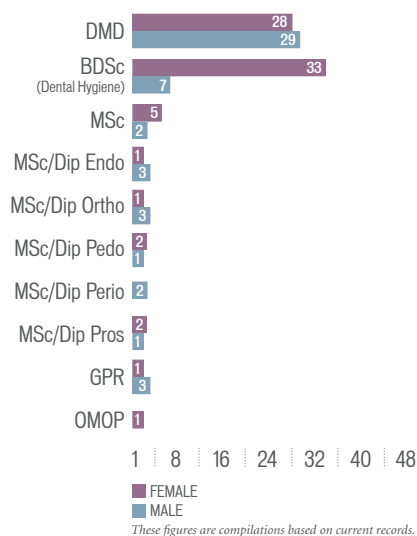
Brian Kang, Angelica Ignacio-Pacunayen, Laura Wolfe and Cindy Xu, BDS (DH) graduates, walk outside Thea Koerner House, close to the Chan Centre for the Performing Arts.



Stacy Stelting, followed by other DMD graduates, walking outside Thea Koerner House, close to the Chan Centre for the Performing Arts.

Graduates and Residents of 2016

June 1, 2016, marked the 48th class of graduates from UBC Dentistry. This year, 125 people graduated from undergraduate and graduate programs.



Congratulations to everyone. To find out who the grads and residents are, visit www.dentistry.ubc.ca/grads



**UBC
DENTISTRY
ALUMNI**

CLASS NOTES AND EVENTS

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

1970s



Alan Lowe
DMD 1972

Alan retired on June 23, 2016. He and fellow retiree Dr. Rosamund Harrison shared their celebrations with faculty, staff and friends at Sage Bistro on the UBC Point Grey campus. Read both Alan and Rosamund's retirement announcements on page 13.

DMD AND DIP DH 1972 REUNIONS

The DMD and Dip DH classes of 1972 are each planning a 45-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. The DMD 1972 reunion leader is Susan Chow. For information, email alumni@dentistry.ubc.ca



John Fraser
DMD 1976

John returned to the school for a tour to see an operatory named for his class and to visit the new Robert H. Lee Alumni Centre.

DMD AND DIP DH 1977 REUNIONS

The DMD and Dip DH classes of 1977 are each planning a 40-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. For information, email alumni@dentistry.ubc.ca



Ken Shimizu
DMD 1979

Kenji and April are now first-time grandparents: daughter Andrea and son-in-law Greg welcomed their cute little son, Alexander Kiyoshi, on Friday, July 15, 2016.

1980s



Bob Paterson
DMD 1981

Bob, with his three daughters from left to right: Kimberly is a third-year dental student at UBC, Cassandra holds a Juris Doctor degree and was called to the bar, and Madelyn graduated from UBC last year with a Bachelor of Human Kinetics degree.

DMD AND DIP DH 1982 REUNIONS

The DMD and Dip DH classes of 1982 are each planning a 35-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. For information, email alumni@dentistry.ubc.ca

DMD 1987 REUNION

The DMD Class of 1987 is planning a 30-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. The reunion leader is Joan Eaton. For information, email alumni@dentistry.ubc.ca



Joan Eaton
DMD 1987

Joan, pictured here in 2012 with fellow classmate Lange Soo in Vietnam, returned to the Southeast Asian country this past May to volunteer with several other alumni and senior-year dental students as part of a UBC Dentistry fourth-year travel elective.



She writes: "The group was really great, and we had a lot of laughs in spite of the heat and humidity. We worked at a school outside of Da Nang where we saw over 600 children in three-and-a-half days. Our time was cut short due to problems with the government allowing us to work in our originally planned area of Da Lat. As a result, we extended our work days in Da Nang so that we worked the same number of hours as a five-day week. Apparently we are the hardest-working group that Da Nang-based East Meets West Dental Center brings in, and we always manage to treat far more children than the next-most-productive group. East Meets West is hoping we can return in 2018." Pictured in the back row from left to right: Fiona Roth DMD 2016, Joan Eaton, Bill Riddell DMD 1987, Les Ennis DMD 1987, Melanie Mattson MSc/Dip Ortho 2013 and Nancy Vertel MSc/Dip Pedo 2013; and in the front row left to right: Alexandra Moore DMD 2016, Kevin Urness DMD 2016, Jiya Jung DMD 2016, David Larsen DMD 1987 and Dr. Ken Stones.



Chris Barlow
DMD 1989
Henry Louie
DMD 1988

Chris and Henry (pictured in the front rows left and 2nd left) volunteered with students at the Abbotsford Food Bank dental clinic on April 23, 2016.



Ernie Lam
DMD 1989

Ernie (pictured left) sees the sights while doing volunteer dentistry in Ethiopia earlier this year. He writes: "This is a picture from Lalibela at the Church of Saint George, one of the monolithic churches in the area that is a UNESCO World Heritage site."

1990s



David Engelberg
DMD 1991

David was the lucky winner of the coveted UBC Dentistry sweatshirt at the annual Alumni Reception at the Ontario Dental Conference in May 2016.

DMD 1992 REUNION

The DMD class of 1992 is planning a 25-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. For information, email alumni@dentistry.ubc.ca



Reza Nouri
DMD 1994

The annual Alumni/Faculty vs. Students Soccer Match was held on Sunday, April 24, 2016. Reza, from the PDG Pediatric Dental Group, organized and sponsored the annual game.

DMD AND BDS Sc 1997 REUNIONS

The DMD and BDS Sc classes of 1997 are each planning a 20-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. For information, email alumni@dentistry.ubc.ca

2000s

DMD AND BDS Sc 2002 REUNIONS

The DMD and BDS Sc classes of 2002 are each planning a 15-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. For information, email alumni@dentistry.ubc.ca

DMD AND BDS Sc 2007 REUNIONS

The DMD and BDS Sc classes of 2007 are each planning a 10-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. The DMD 2007 reunion leader is Ruby Bhullar. For information, email alumni@dentistry.ubc.ca



Cindy Cho
DMD 2009

In support of Oral Health Month in April, the Chinese Canadian Dental Society of BC held an annual dental health fair at Lansdowne Mall in Richmond, BC, on April 24. The event was co-organized by Cindy, who is president of the society. She writes: "We had dental screenings for children and adults, as well as general dentists and specialists available to answer questions." Cindy credits the community event's success in raising oral health awareness to the efforts of the volunteers. Among the volunteers this year, there were a dozen UBC DMD students from all years. Pictured from left to right: Eugene Chien, James Chen, Renzuo Liu, Irene Ng, Kelvin Leung, Leo Lee, Nicole Kwong, Jay Lam, Erick Kong, Teresa Lee, Brian Lee and Lucy Lu, with Cindy Cho DMD 2009, Dr. Jonathan Wu and Dr. James Lin MSc/Dip Endo 2012.



Bora Moon
DMD 2009

Baby Luna Lee, born March 22, is cradled in the arms of her mother, Bora.

2010s



Sarah Garbelya
DMD 2012

Sarah and Kevin are celebrating their one-year wedding anniversary in September.

DMD AND BDS Sc 2012 REUNIONS

The DMD and BDS Sc classes of 2012 are each planning a five-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. For information, email alumni@dentistry.ubc.ca



Jay Chan
Sharon Shao
DMD 2014

Jay and Sharon are pleased to announce the birth of their daughter, Olivia, born May 28, 2016.

KEEP IN TOUCH

www.dentistry.ubc.ca/alumni

FOLLOW ALUMNI ENGAGEMENT ON TWITTER

Follow UBC Dentistry Alumni
@ubcdentalumni

www.twitter.com/ubcdentalumni



Nadine (Priya) Kandola
Michael Stearns
DMD 2014

Nadine and Michael celebrated their one-year wedding anniversary on July 25, and moved to Whitehorse to practise at the Pine Dental Clinic. The opportunity to take over for a retiring dentist and a dentist moving away came up, so they jumped on it. "We get to practise all aspects of dentistry, from implant surgery to orthodontics, so it's a great place to continue to learn and improve our skills."



Jade Lavallee
Hikari Shiga
BDS Sc 2014

Jade and Hikari won first place for the 2015 Social Responsibility Award from the International Federation of Dental Hygienists and the Global Child Dental Fund. Their winning project was a children's tooth-brushing program in rural townships of South Africa, which introduced a sustainable model of oral health promotion through the education of local school teachers. Read more at bit.ly/2bNdWZ1

DMD AND BDS Sc 2016 REUNIONS

The DMD and BDS Sc classes of 2016 are each planning a one-year reunion dinner to follow the Annual Alumni Reception at the 2017 Pacific Dental Conference. For information, email alumni@dentistry.ubc.ca

In Memoriam



Joan Lang
DMD 1982

UBC Dentistry is saddened by the news of the passing of Joan Lang in Hong Kong, on Apr 23, 2016. She is survived by her husband Norman T. Wong and son Aaron.



Bill Richter

Dr. Bill Richter, former head of the Department of Restorative Dentistry in the Faculty of Dentistry at UBC, passed away on July 4, 2016, in Billings, Montana, where he was born in 1925. He had attended a family reunion in Billings and died suddenly from a brain aneurysm. Dr. Richter practised dentistry for 10 years in Missoula, Montana, before returning to his alma mater, the Oregon Health & Science University School of Dentistry, to teach. His success there led to a position as department head of Restorative Dentistry at the University of California, Los Angeles, School of Dentistry. He accepted the position as head of Restorative Dentistry at UBC in 1980 after conducting research there on the properties of dental luting cements while on sabbatical from UCLA. He retired from UBC in 1986. Dr. Richter was a shy and thoughtful person with eclectic interests, including a passion for wood carving, and exceptional skills as a teacher of dentistry.



Charles E. Slonecker

Professor emeritus Dr. Charles E. (Chuck) Slonecker passed away on June 9, 2016, after a courageous battle with cancer. Dr. Slonecker joined the Anatomy Department in the Faculty of Medicine at UBC in 1968, serving as department head from 1984 to 1995. In 1990, he assumed the position of director of Ceremonies for the university, a role he maintained until his retirement in 2003. Slonecker also served for two years as acting vice-president of External Relations at UBC in the mid-1990s.

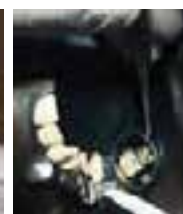
His many contributions on campus include serving as faculty representative on the Senate, on numerous presidents' advisory committees, as senior volunteer with the UBC Development Office, on the Alumni Association board and as a UBC United Way Campaign organizer—not to mention his various roles on external

community boards such as Bard on the Beach and Performing Arts Lodges. Even after his retirement Slonecker continued to chair the Student Discipline Committee and to participate on other committees. He also served as a long-time member of the UBC Dentistry Board of Counsellors.

Slonecker's research accomplishments were greatly respected by his peers, and he was a highly recognized teacher, receiving teaching awards from the faculties of Medicine and Dentistry, as well as numerous other professional and association awards. In 2001, he received the President's Service Award for Excellence and was made an Honorary Alumnus of UBC. In 2015, he received the College of Dental Surgeons of BC Distinguished Service Award.

Dr. Slonecker, with his wife Jan, was an active and invaluable member of the UBC community. His devotion to UBC has been celebrated with a number of awards and acclamations, including the UBC Alumni Faculty Citation Community Service Award and the Slonecker Award, named for, and in honour of, Chuck and Jan's outstanding volunteer contributions to the University of British Columbia.

Almost Alumni



Nick Aytoğlu
DMD 2017

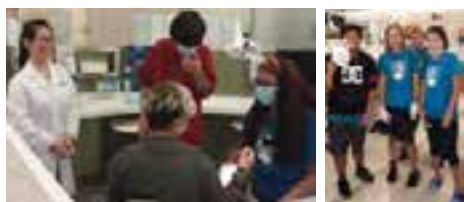
Nick won the UBC Centre for Teaching, Learning and Technology Student Photo Competition. His photo, representing UBC Dentistry's simulation learning in the 21st century, garnered the most Facebook likes to win the grand prize, an Apple Watch. Nick says of his photo: "During my second year of dental education at UBC Dentistry, I had the opportunity to develop my operative dental skills while working within the Psychomotor Learning Module. In this specific image, we were asked to prepare and restore an interproximal carious lesion with a silver filling, or what we refer to as amalgam. These lesions often occur between teeth, and the best prevention is to floss

the teeth in conjunction with daily brushing. As a student of UBC Dentistry, I have the privilege of working with leading-edge clinical equipment during my clinical simulation courses. In this way, learning dentistry in the 21st century has become a very rich experience that allows me to expand my skill armamentarium in simulation and then apply these skills in supervised clinical practice. This photo captures the essence of this learning-centred environment that UBC Dentistry creates for us as we embark on our dental education journey.”



Dylan Oliver
DMD 2017

Dylan participated in the Summer Students Practitioner Program in Cranbrook, BC, at Baker Hill Dental. He is pictured centre right with the Baker Hill team, including alumnus Kevin Shen DMD 2015 (front left).



Samantha Trieu
BDS Sc 2017

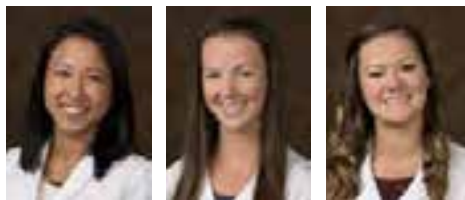
Samantha, along with other dental hygiene students, volunteered to lead the UBC Summer Science Program at the Faculty of Dentistry. Two groups of high school students toured Dentistry and participated in group events and an oral cancer lecture on July 7 and 14. For more information about the program, visit bit.ly/2aKU732

SHARE

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

PLANNING A REUNION?

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



Kerri-Lyn Chong
Emma Marler
Kimberly Paterson
DMD 2018

Kerri-Lyn, Emma and Kimberly are co-chairs of a new initiative called UBC Oral Health, Total Health. As a branch of Oral Health, Total Health, a federal non-profit organization with a mission to advocate, educate and improve the oral health care for people with special needs, the initiative at UBC held their first fundraiser, Sharing Smiles Day, and raised \$300 for the organization.

Recent Events



Calgary Alumni CE & Reception

Calgary area alumni “stampeded” to this year’s event on June 9, 2016, hosted at and sponsored by Aurum Ceramic Dental Laboratories.

The young alumni—especially the Class of 2015—took advantage of a post-dinner CE lecture titled “Endodontic Pathoses,” presented by Dr. Jeffrey Coil, assistant professor and director of the Graduate Endodontic Program at UBC Dentistry. Attendees enjoyed a tour of the Aurum Ceramic Dental Laboratories and Core3d milling centre. The social reception at the end of the evening was a hit with all who attended: Seema Basati GPR 2015, Taneshwar Chahal DMD 2014, Edmund Chan DMD 2006, Ekta Cheba DMD 2015, Jaejun Choi DMD 2012, Sophie Dong DMD 2012, Rosa Kim DMD 2015, Eileen Lo DMD 2007, Mike Mah DMD 2015, Chandni Parekh DMD 2012, Julianne Proniuk DMD 2015 and Allison Skrenes DMD 2011.

Events for Students and Alumni

COMMUNITY OUTREACH VOLUNTEER RECOGNITION

Wednesday, November 16, 2016 · Registration & welcome cocktail 6:30 pm · Formal program with reception to follow 7:10 pm

Cecil Green Park House, UBC Point Grey Campus

A special evening to recognize the commitment, success and impact of the community outreach volunteer programs. For more information, email alumni@dentistry.ubc.ca

VOLUNTEER COMMUNITY CLINICS – UPCOMING

Abbotsford Food Bank (Abbotsford)
October 1, November 19, 2016; January 21, February 25, April 29, 2017 (all 2017 dates tentative)

Ray-Cam Co-operative Centre, The Dental Mission Project (Vancouver)
November 5, 2016

Steveston Japanese Canadian Cultural Centre (Richmond)
March 2017 (tentative, day TBD)

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

More Events for Alumni

KAMLOOPS ALUMNI CE

Saturday September 24, 2016 · Registration 8:30 am · CE 9 am – 12 pm

Coast Kamloops Hotel & Conference Centre, Kamloops, BC

Kamloops and District Dental Society presents “Oral Cancer Screening, Risk and Care” with alumna Dr. Denise Laronde, UBC Dentistry associate professor, Department of Oral Biological & Medical Sciences.

NANAIMO ALUMNI CE & RECEPTION

Friday, September 30, 2016 · Registration and welcome drinks 6 pm · CE 6:30 - 7:30 pm · Reception 7:30 - 9:30 pm

Nanaimo Museum, Nanaimo, BC

Dr. Chris Wyatt, UBC Dentistry professor and chair, Division of Prosthodontics & Dental Geriatrics, to present CE lecture "The Aging Population: Opportunities for the Dental Profession," followed by an alumni reception.

VICTORIA ALUMNI CE & RECEPTION

Saturday, October 1, 2016 · Registration and welcome 11 am · CE 11:30 am - 12:30 pm · Reception 12:30 - 2:30 pm

Brentwood Bay Resort and Spa, Victoria, BC

Dr. Chris Wyatt, professor and chair, Division of Prosthodontics & Dental Geriatrics, to present CE lecture "The Aging Population: Opportunities for the Dental Profession," followed by an alumni reception.

ALUMNI WINE RECEPTION AT THE TODS MEETING, KELOWNA

Friday, October 21, 2016 · 7 - 9 pm

Laurel Packinghouse, Kelowna, BC

Join fellow Okanagan alumni for cider tasting, hors d'oeuvres, cheese and conversation following the 2016 Thompson Okanagan Dental Society (TODS) annual meeting. The reception is co-sponsored by Sinclair Dental and Scotiabank. Conference registration is not required to attend the reception. Register for conference at todsmeeting.com. For information about the reception, email alumni@dentistry.ubc.ca

DENTAL HYGIENE ALUMNI CE & RECEPTION

Friday, November 18, 2016 · 6:30 - 9 pm

Nobel Biocare Oral Health Centre, UBC Point Grey Campus, Vancouver, BC

Come for an evening to revisit, reconnect and reimagine. Meet the new Dental Hygiene program director, other dental hygiene alumni and the soon-to-be alumni, students in the Class of 2017. Learn what's new in the Dental Hygiene Degree Program since you graduated. The CE component is titled "Life After UBC Dental Hygiene: Using Your Education" and will address the educational landscape of dental hygiene in Canada, the outcomes of baccalaureate education, and career opportunities. Enjoy a tour of UBC Dentistry, including a look at the renovations and new spaces such as the graduate specialty clinic.

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

REUNIONS IN 2016 - 2017

DMD and Dip DH 1972 45-Year Reunions

DMD and Dip DH 1977 40-Year Reunions

DMD and Dip DH 1982 35-Year Reunions

DMD 1987 30-Year Reunion

DMD 1992 25-Year Reunion

DMD and BDSc 1997 20-Year Reunions

DMD and BDSc 2002 15-Year Reunions

DMD and BDSc 2007 10-Year Reunions

DMD and BDSc 2012 5-Year Reunions

DMD and BDSc 2016 1-Year Reunions

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

PLANNING A REUNION?

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

Stay in Touch

The alumni office at UBC Dentistry can help you stay connected with your fellow graduates, plan and promote reunions, and keep you informed of upcoming educational opportunities. To learn more, contact Rosemary Casson, manager, Alumni Engagement, at 604-822-6751 or alumni@dentistry.ubc.ca

Stay connected to more than 2,900 alumni. Share your news, thoughts or comments. Visit dentistry.ubc.ca/alumni

MENTORSHIP PROGRAM

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

**ANNUAL ALUMNI RECEPTION AT THE PACIFIC DENTAL CONFERENCE 2017**

Friday, March 10, 2017 · 5:30 - 7:30 pm

West Ballroom Foyer, Vancouver Convention and Exhibition Centre

Commemorative anniversary class photos to be taken of: 1972, 1977, 1982, 1987, 1992, 1997, 2002, 2007, 2012 and 2016.

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

COMMUNITY PARTNERS**ALUMNI PARTNERS**

Thank you to all our volunteers **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 Gumplinger DMD 2003 •

Dr. Alexander Hird • 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** • Crystal Au BDSd 2018 • Alyssa Barnsley BDSd 2017 • Emily Choi BDSd 2017 • Kerri-Lyn Chong DMD 2018 • Andrew Dawn DMD 2018 • Tanner Dobson DMD 2018 • Iris Feng BDSd 2017 •

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Karissa Reid BDSd 2017 • Sarah Rippe BDSd 2018 • Eric Rocca DMD 2018 • Steven Schadinger DMD 2018 • Parveen Sekhon BDSd 2017 • Sam Soufi DMD 2017 • Emily Thong DMD 2017 • Samantha Trieu BDSd 2017 • Geoffrey Young DMD 2018 • Steven Zbarsky DMD 2017 **ORAL CANCER SCREENING CLINIC-ROTARY CLUB OF SURREY-NEWTON**

AND PACIFIC ORAL HEALTH SOCIETY • Dennis Chen BDSd 2015 • Emily Choi BDSd 2017 • Iris Feng BDSd 2017 • Anne Kim BDSd 2015 • Denise Laronde MSc 2005 • Jade Lavalley BDSd 2014 MSc 2016 • Iris Lin BDSd 2017 • Kim Nguyen BDSd 2014 • Salima Walji BDSd 2014 MSc 2016 • Sisi Xu BDSd 2016 • Yan Zhou BDSd 2015 **SUMMER**

STUDENT PRACTITIONER PROGRAM-MENTORS • Dr. Zohren Ansari • Dr. Roger Armstrong • Dr. Gordon Blondahl • Dr. David Bobyn • Harleen Braich DMD 2011 • Chris Bryant DMD 1991 • Erin Burley DMD 2005 • Dr. Dave Burwash • Angelyn Chan DMD 1975 • Dr. Babak Chehroudi • Dr. Andrew Cheng • Dr. Lui Chung • David Ciriani DMD 1987 • Dr. Chris Ciriello • Dr. Luke Cockerham • Brent Corlazzoli DMD 1996 • Dr. Monika Deutsch • Dr. Harinder Dhanju • Dr. Savita Dhingra • Dr. Renee Duprat • Dr. Sheldon Goldberg • Allan Hovan DMD 1980 • Dr. Fadi Ibrahim • Matthew Irvine DMD 1995 • Jan Kantoch DMD 2010 • Dr. Diane Kjørven • Dr. Ming-Hsin Lee • David Li DMD 2008 • William Liang DMD 1983 • Dr. Melissa Lin • Dr. Yiming Emily Liu • Edward Lowe DMD 1986 • Eric Meiner DMD 2004 • Dr. Vikram Nanda-Kumar • Matthew Ng DMD 2001 • Dr. Ivo Pumpalov • Dr. Sumeet Saini • Jaspal Sarao DMD 2010 • Dr. Jennifer Sayson • Kevin Shen DMD 2015 • Amin Shivji DMD 1993 • Dr. Shichun Song • Stanley Soon DMD 1978 • Dr. Klaus Thomas • David Waller DMD 1986 •

CONTINUING DENTAL EDUCATION 2016 - 2017

SEPTEMBER - OCTOBER 2016

30 - 2 (FRIDAY - SUNDAY)

Mastering Adult Minimal Sedation: Inhalation and Oral Sedation in Dentistry
Dr. Scott C. Dickinson, Dr. Mark Donaldson, Dr. Jason Goodchild

OCTOBER 2016

15 (SATURDAY)

Let's Talk About Infection Control
Dr. John Molinari

29 (SATURDAY)

Social Media & Dentistry: The Connected Practice, the Digital Dentist
Mr. Jesse Miller

NOVEMBER 2016

5 (SATURDAY)

Common Surgical and Prosthetic Complications in Implant Dentistry
Dr. Dimitrios Karastathis, Dr. Faranak Zaeimdar

19 - 20 (SATURDAY - SUNDAY)

Make Them Smile Again—Update on Dentoalveolar Trauma: A Two-Day Theoretical and Hands-On Course
Dr. Christine Berthold

25 - 26 (FRIDAY - SATURDAY)

Soft Tissue Grafting for the General Practitioner: A Two-Day Hands-On Course With Two Live-Demo Surgeries
Dr. Farzan Ghannad, Dr. Tassos Irinakos

26 - 27 (SATURDAY - SUNDAY)

Introduction to Dental Microscopy and Advanced Endodontics: A Two-Day Hands-On Workshop
Dr. Jeff Coil

DECEMBER 2016

3 (SATURDAY)

Dementia in Dentistry
Dr. Peter Brymer, Dr. Zul Nathoo, Ms. Ronine Sharp

THANK YOU

Dr. Cheng Lun Wang • Dr. Robert Wolanski • Jane Wrinch DMD 1992 **UBC ALUMNI ASSOCIATION ADVISORY COUNCIL** • Ed O'Brien DMD 1976 **UBC DENTISTRY BOARD OF COUNSELLORS** • Ms. 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 • 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** • Houman Abtin MSc/Dip Endo 2011 • Amir Asghari DMD 2018 • Nick Aytoğlu DMD 2017 • Tony Bae DMD 2013 • Andrea Baird DMD 2016 •

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

JANUARY - FEBRUARY 2017

30 - 3 (MONDAY - FRIDAY)

Adventure & Learn: Hawaii 2017

The Role of Dentists in a Sleepy World. Oral Appliances—The Good and Bad News
Dr. Fernanda Almeida

Oral Health Care for Patients With Cancer
Dr. Charles Shuler

The Hammer and the Nail: A Two-Part Series on Current Developments in Oral Implantology
Dr. William Liang

Location: Fairmont Kea Lani, Maui, Hawaii

FEBRUARY 2017

23 - 25 (THURSDAY - SATURDAY)

Annual Ski Seminar at Whistler 2017

Adhesive and Restorative Dentistry: Separating Fact From Fiction
Dr. Harald O. Heymann

Applied Aesthetic Principles for Treatment Success
Dr. Harald O. Heymann

Conservative Concepts for Non-Extreme Makeovers: Bleaching, Veneers or What?
Dr. Harald O. Heymann

Location: Four Seasons Resort, Whistler, BC

24 - 26 (FRIDAY - SUNDAY)

Annual AI Heaps & Associates Inc. Palm Springs Dental Practice Transition Seminar & Golf

Building Your Unlimited Practice
Ms. Judy Larocque

Dental Practice Transition Options
Panel Speakers: Messrs. Henry Doyle, Howard Kutner, Michael Kutner, Matthew O'Brian, Brian E. Rudy, Rob Wild

Location: Omni Rancho Las Palmas Resort & Spa, Rancho Mirage, California

MARCH 2017

20 - 24 (MONDAY - FRIDAY)

UBC Orthodontic Symposium 2017: Advances in Orthodontics

Sleep Medicine and Orthodontics—Current Understanding and Controversies
Dr. Benjamin Pliska

Surgery-First Orthodontics
Dr. Junji Sugawara

Oral Pathology—A Review for the Orthodontist
Dr. Samson Ng

Orthodontic Considerations in the Mixed Dentition
Dr. David Kennedy

Periodontal Therapy for the Orthodontic Patient
Dr. Michelle Lee

Location: Fairmont Orchid, Kohala Coast on the "Big Island," Hawaii

STUDY CLUBS 2016 - 2017

September 2016 - July 2017

Basic Orthodontics for the General Practitioner
Dr. Paul Witt

September 2016 - August 2017

Advanced Orthodontics for the General Practitioner
Dr. Benjamin Pliska

September 2016 - July 2017

UBC-Radiant Advanced Orthodontics for the General Practitioner
Dr. Paul Witt

September 2016 - May 2017

Advanced Fixed Prosthodontics for the General Practitioner
Dr. Chris Wyatt

September 2016 - March 2017

Dental Biomaterials: From Scientific Evidence to Clinical Practice
Dr. Ricardo Carvalho, Dr. Adriana Manso

October 2016 - April 2017

Removable Prosthodontics for the General Practitioner
Dr. Mike Racich

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

2016 FALL THURSDAY EVENING LECTURE SERIES FOR DENTAL HYGIENISTS

SEPTEMBER 2016

29 (THURSDAY)

Oh the Pain! Oh the Pus! Appropriate Analgesic and Antibiotic Prescribing
Dr. Mark Donaldson

OCTOBER 2016

6 (THURSDAY)

Fundamental Principles of Periodontal Instrumentation
Ms. Penny Hatzimanolakis

NOVEMBER 2016

3 (THURSDAY)

Periodontal Regeneration—What's New? New Dimensions in the Treatment of Periodontal Disease
Dr. Jim Grisdale

24 (THURSDAY)

Acute vs. Chronic Workplace Pain: Strategies to Decrease Physical Pain
Ms. Jill Moore

CDE PARTNERSHIP

September 2016 - June 2017

Vancouver AAID MaxiCourse®

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

September 2016 - December 2016

Moderate Conscious IV Sedation for Dentistry
Sea to Sky Dental-Ed provides sedation education for the whole dental team. For more information, visit dentaled.ca

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 2017

Adventure & Learn: Hawaii 2017
January 30 - February 3, 2017
(Monday - Friday)

Annual Ski Seminar at Whistler 2017
February 23 - 25, 2017 (Thursday - Saturday)

**Annual Al Heaps & Associates Inc.
Palm Springs Dental Practice Transition
Seminar & Golf**
February 24 - 26, 2017 (Friday - Sunday)

**UBC Orthodontic Symposium 2017: Advances
in Orthodontics**
March 20 - 24, 2017 (Monday - Friday)

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

EVENTS FOR STUDENTS AND ALUMNI

Community Outreach Volunteer Recognition
November 17, 2016 (Thursday)

MORE EVENTS FOR ALUMNI

**Alumni Wine Reception at the
TODS Meeting**
October 21, 2016 (Friday)

Dental Hygiene Alumni CE & Reception
November 18, 2016 (Friday)

**Annual Alumni Reception
Pacific Dental Conference 2017**
March 10, 2017 (Friday)

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

IMPRESSIONS

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