**RECALL FALL 2016** 

# UOFS DENTISTRY



## **REMEMBERING**

### DR. KUNIO KOMIYAMA

1939-2016

he College of Dentistry hosted a come and go tea Oct. 12 at the University Club to honour the memory of Dr. Kunio Komiyama, who passed away in Saskatoon Sept. 26.

Dr. Komiyama joined the college April 1, 1974 and remained a strong presence for over 40 years. He was granted Professor Emeritus status at the University of Saskatchewan upon his retirement in 2006, but continued to each courses.

Born on Jan. 5, 1939 in Kyoto City, Japan, Dr. Komiyama received his Doctor of Dental Surgery degree from Osaka Dental University in March, 1966. In 1970, he received a Doctor of Philosophy in Oral Microbiology and Immunology for his thesis The Relationship Between Periodontal Disease and Wassermann Reaction.

In Saskatoon, Dr. Komiyama taught oral microbiology as well as immunology and physiology, and infection control, and for a brief time, endodontics. He was noted for his contribution to developing a "solar-powered" toothbrush, and he co-ordinated a fourthyear course in which he had numerous faculty members from the College of Medicine present lectures designed to



Dr. Kunio Komiyama was a dedicated Blue Jays fan.

enhance multi-disciplinary teaching. He was always interested in his students and loved hearing of and talking about both their personal and professional accomplishments.

Dr. Komiyama was a baseball fan—one of the Toronto Blue Jays' first and most dedicated supporters. He enjoyed playing softball with the college summer team, an opportunity to socialize with students, faculty members and

friends. He was also a dog lover; he arrived in Saskatoon with two large German Shepherds named Winnie and Mannie (after Winnipeg and Manitoba). Later in life, he 'downsized' to smaller dog and eventually became a cat owner.

A constant ambassador and strong advocate for the college and the U of S, Dr. Komiyama was one of the most recognizable faces associate with the College of Dentistry. A kind, gentle and considerate man, generous to a fault, he is remembered for his positive attitude and smiling face and infectious laugh. Simultaneously complicated and simple, confusing and clear, flawed and perfect, Dr. Komiyama dedicated his life to the people and the program he loved.

Dr. Komiyama was predeceased by his father Toshizo Komiyama, his mother Yatsumi Komiyama, his brother Ichiro Komiyama and his wife Carynn Komiyama. He is survived by his daughter Jennifer Donahue, son Tom Phillips, grandchildren Jordan and Kylie Donahue and Sarah Phillips, sisters Hiroko Murotani and Mazako Shizuta along with numerous nephews, aunts and uncles in Japan.



**Nursing in Dentistry** 



**Simulating Medical Emergencies** 



**Research Success** 



#### THE COLLEGE OF **DENTISTRY**

University of Saskatchewan Room 332 Dental Clinic Building 105 Wiggins Road Saskatoon SK S7N 5E4

#### DEAN:

Dr. Gerry Uswak

#### ASSOCIATE DEAN ACADEMIC:

Dr. Ken Sutherland

#### **ASSOCIATE DEAN RESEARCH:**

Dr. Petros Papagerakis

#### **ASSISTANT DEAN CLINIC:**

Dr. Reg Anholt

#### note:

On the cover: Dr. Shane Van Biezen with a young patient in Equador. The story is on page 14.

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Lifelong Learning—Seminar Calendar



There are many steps along the path to reviewing and renewing the College of Dentistry's curriculum, and faculty will have opportunities for input at every one.

It will be a true collaborative effort, said Janice Cruise, who was hired specifically for the curriculum review project, "with many times and spaces for input from all faculty."

The last time the curriculum changed was in the 1990s when the program was reduced to four years from five, she explained. The driving force behind the current project is the need to ensure the curriculum meets the expectations outlined in the Association of Canadian Faculties of Dentistry's Educational Framework for the Development of Competencies in Dental Programs, which was published in June of 2015.

The first step saw the college's Undergraduate Education Committee set up a nine-member committee in June to lead the review process. The Curriculum Review Steering Committee (CRSC) members are: Dr. Ken Sutherland, associate dean

academic; Kelly Mulligan, director of academic and student affairs; Dr. Reg Anholt, assistant dean clinic; full-time faculty members Dr. Devon Anholt and Dr. Dean Kolbinson (committee chair); part-time faculty members Dr. Dennis Lanigan and Dr. Blayne Thibodeau; student representative Mary Tait; and Dr. Bernie White from the College of Dental Surgeons of Saskatchewan.

Also attending all CRSC meetings in non-voting capacities are Cruise and Susan Bens from the University of Saskatchewan's Gwenna Moss Centre for Teaching Effectiveness.

Keeping the end in mind, the CRSC set out the goals of curriculum review, which include graduating beginning general dentists who are competent, have enhanced clinical and research experience, and possess exceptional clinical skills. The goals go on to describe graduates as being dedicated to evidence-based and patient-centered care who model and apply best practices, and are committed to life-long learning.

Based on those goals, a set of 11 guiding principles was

established. Among them are developing an innovative curriculum, emphasizing core dental-care principles and using technology, enhancing community outreach and service as well as research opportunities for students, and seeing case-based learning integrated throughout the curriculum.

"We didn't find any existing guiding principles that fit quite right for us," Cruise said, so the committee developed principles to suit the College of Dentistry's particular objectives. The college's Undergraduate Education Committee approved the principles on Sept. 26, and Faculty Council did the same on Sept. 30.

Cruise pointed out that as the process continues, additional principles could be developed; these too will require approval of the education committee and faculty.

The CRSC is now beginning to organize working groups to explore particular aspects of a new curriculum "and how we deliver experiences to students." Cruise said the list of working groups has yet to be finalized, but, as examples, "one might tackle the concept of outreach and there could be a research working group." No matter the topic, the groups will include students, full- and part-time faculty and practicing dentists.

There are also plans for a college town hall meeting to collect feedback on how the curriculum is arranged, Cruise said. The date of that meeting has yet to be set.

The CRSC will use the working groups' findings along with input from faculty and students to prepare a curriculum framework document that it will present to the Undergraduate Education Committee. Ultimately, the education committee will take the framework to Faculty Council for final approval. Once the framework is approved, the project will continue forward for full curricular renewal.

People are welcome to provide input at any time using the email address dentcurriculum\_feedback@usask.ca



as anyone read the Gies report? If you have not, please do read it. If you have, read it again. You can find an electronic version on the Adeagies Foundation website. It is a fascinating treatise on how to advance the dental profession through education and the dissemination of dental research. His vision for the future of the profession is still relevant today.

While you are at it, read The Institute of Medicine's Dental Education at the Crossroads: Challenges and Change; you can download a free PDF from The National Academies Press website.

Although the documents are separated by almost 70 years, they are in harmony on why continual change is necessary for us to become a more scientifically-based profession, to pursue innovative research, to better equip our students to be life-long learners and better practitioners, all for the end goal of improving access to care for all of those we

"Reorganization of the undergraduate curriculum into three academic years instead of four, each suitably lengthened if necessary ... addition of optional, full-year, graduate curricula, based on the three-year undergraduate curriculum and conducted on a high plane of scholastic quality, for systematic and intensive training...

> William John Gies Dental Education in the United States and Canada A Report to the Carnegie Foundations for the Advancement of Teaching 1926

serve in our communities. Both documents reflect the need for dental schools to demonstrate that they are relevant to their respective university communities. They both also make the point on the importance of incorporating a PGY1 into dental education.

Does any of this sound familiar?

After a bit of a hiccup, we have established our curricu-

lum renewal committee to oversee the creation of a new foundation for our future, and I have confidence that the end result will be an exciting new vision for our college that will reflect the vision of Gies and the Institute of Medicine.

In this issue of Recall, we introduce you to Dr. Petros Papagerakis, our new associate dean research, who provides insight on how he will redefine our research strategy for the future. While Dr. Papagerakis is the first research-intensive faculty member we have hired in many years, you can see that his research vision is broad and intended to touch all of our stakeholders because we all need to be involved in the process.

Our new GPR clinic is operational. At this time last year, it was just an empty space that had been vacated by the Rural Memory Clinic and returned back to us. We have increase our resident numbers from two to four, allowing us to provide them with an increased diversity in community based clinical experiences.

We are embarking on creating a new dental practice management curriculum in partnership with Dr. Roger Levin and the Levin Group so that our graduates will earn both a DMD and a diploma in practice management.

Look, change is difficult but it is also inevitable, and I think we are making progress. ■

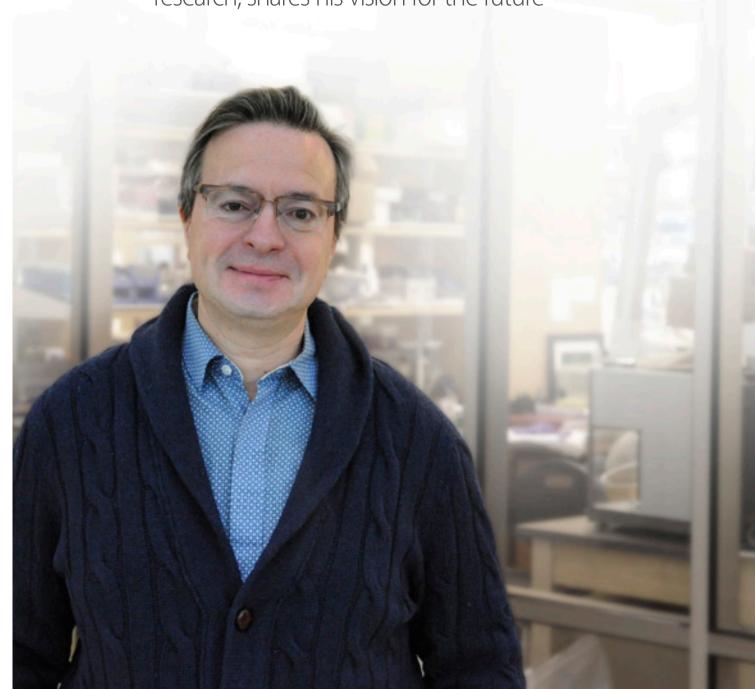
Adeagies Foundation/Gies Report: www.adeagiesfoundation.org

The National Academies Press/Dental Education at the Crossroads Challenges and Change: www.nap.edu/catalog/4925/dental-education-at-the-crossroads-challenges-and-change

Contact the dean with questions or comments: gerry.uswak@usask.ca • 306-966-5122

# THINKING DIFFERENTLY ABOUT RESEARCH

Dr. Petros Papagerakis, new associate dean research, shares his vision for the future



#### The people in the college are willing and hard working; we have all the elements we need to evolve, to be more global, more advanced.

**Dr. Petros Papagerakis** 

lthough just weeks into his term as associate dean research, Dr. Petros Papagerakis has already formulated a vision for a College of Dentistry that is a significant contributor to innovation and research, and a plan for how he will help it get there.

"It will be like watching a child grow from a young age into an adult," he said during an interview in his new Health Sciences building office. "The people in the college are willing and hard working; we have all the elements we need to evolve, to be more global, more advanced." The first step, he added, is helping people think differently about research.

"Many people believe research is only for specific people who have PhDs and work in labs, but research is also about thinking critically about what we are doing, about expected outcomes and about how to make it better."

Key to developing a research mindset will be encouraging students to ask questions, "continually ask questions." That, he said, is one of three drivers of knowledge creation in the college—"older faculty with experience, newer faculty with excitement and students with questions."

In fact, his own experience asking questions as a student set Papagerakis on a path that ultimately led him to Saskatoon. During his dental training in Greece, his questions highlighted "the limitations of the knowledge," and motivated him to enter graduate school while practicing dentistry part time. He completed post-graduate training in Paris, France in pediatric and preventive dentistry, hospital-based pediatric dentistry, biomedical sciences and in oral biology.

In 2000, he earned his PhD in cellular and developmental biology before moving to the University of Texas in San Antonio to complete post-doctoral training in dental and craniofacial molecular genetics.

Prior to joining the University of Saskatchewan, Papagerakis was assistant professor in the Department of Orthodontics and Pediatric Dentistry at the University of Michigan where he also had faculty appointments in the Centre for Organogenesis and the Centre for Computational Medicine and Bioinformatics.

The associate dean is keen to focus the college's burgeoning research activity in the area of dental public health, and he is particularly interested in the correlation between oral health and systemic disease. To fully explore those links, he wants to see the College of Dentistry "connect more with other colleges on campus, and other institutions. That would bring stronger liaisons and could potentially lead to research opportunities."

Beyond the area of dental public health, Papagerakis is also looking to create collaborations with the Colleges of Pharmacy and Nutrition, Medicine, Engineering and Arts and Science, with the School of Public Health, the Western College of Veterinary Medicine and the Canadian Light Source synchrotron.

"We are also very interested in the One Health initiative, with a special focus to collaborate on the infectious diseases research and vaccine development currently under the way."

Papagerakis spoke at length about the importance of personal and professional connections when it comes to finding those research opportunities, and in that effort, there is no substitute for proximity. To illustrate his point, he related an encounter he had on one of his visits to the university before officially taking up his position in late August. On that trip, he met a researcher who has an office just down the hall. By the time that meeting ended, the two had decided to submit a research proposal. They got funding, and are now working on a second grant application.

But dentistry researchers working with their counterparts at the University of Saskatchewan is only one part of the equation; Papagerakis sees potential in looking further afield. He has already visited dental schools across the country to meet with colleagues, and is optimistic there will be research endeavours down the road "where we can be the lead and then involve other institutions."

Asked how he will know he has been successful building a culture within the college that encourages and values research, he spoke first about students. "The most important thing is that we're educators so it is important that students win awards, write (research) papers and stay in academia as faculty or part-time faculty that interact with the college or even collaborate on research."

Another key indicator of success will be the number of research dollars flowing into the college; 10 years from now, Papagerakis wants to see a 100-fold increase over current funding levels.

Combining all that with an engaged alumni who "connect with the college and encourage a research spirit, we should be able to establish a uniqueness in the college that is know nationally and internationally."

As he begins to enact his plans, Papagerakis also has his own research program to consider. He shares a lab with his spouse, Dr. Silvana Papagerakis, an MD and PhD who has taken up a faculty position in the College of Medicine's Department of Surgery. Their investigations focus on autoimmune disease and oral cancer, and they are in the process of moving their lab from Michigan to the U of S, an undertaking he described as "the most complex thing I've ever had to do."

Also making the move from Michigan will be a post-doctoral fellow, the first in the College of Dentistry.

On a personal note, Papagerakis said his family, which includes their young daughter Anna, is impressed with Saskatoon, particularly the development along the riverbank. "I love being around the water."

His daughter is enrolled in a Grade 2 French immersion program and is adapting well to both a new school and a new language. They have found her a violin teacher, a piano teacher and a theatre program "so she has everything she needs. She's the most settled in one in the family." ■



he College of Dentistry will host an event in early 2017 to mark the official opening of the new General Practice Residency (GPR) clinic, a state-of-the-art facility designed to provide the best possible training for residents and the best possible care for patients.

Called Clinic 120 Health Sciences Dental Centre, the facility is located on the main floor of the college and augments the existing Royal University Hospital dental clinic. In addition to being a space for teaching, learning and patient care, Clinic 120 advances the growing recognition of the role of dentistry in the human health-care system, a critical step according to the GPR program director.

"It's exciting for the university community to have a dental clinic grounded right within Health Sciences," said Dr. Mohan Teekasingh. "It is great exposure for dentistry and reinforces that dentistry is part of health care."

Adding a second facility in the college that will operate in tandem with the hospital clinic will enhance the services available to patients as well as the learning opportunities for residents.

"Having access to these new facilities will allow for us to provide more efficient treatment in a more comfortable setting," said 2016-17 resident, Dr. Josh Kirkpatrick. "I'm excited to use stateof-the-art facilities to provide treatment because it will benefit the patients as well as give the residents experience for the future."

Funding for the development of Clinic 120 was provided by donations made to the College of Dentistry Infrastructure Revitalization Fund.

Darcie Reynolds, a GPR dental assistant, believes that in addition to enhancing the training opportunities for residents and service offerings, the clinic will be of particular benefit to patients who are often at their most vulnerable.

"A lot of the patients we see are very nervous about their upcoming treatment and I think it will help put them at ease if they have confidence in the staff and the

equipment being used on them," she said. "It will be fantastic for those working in this clinic and for those receiving treatment there."

For more information about donating to the College of Dentistry Infrastructure Revitalization Fund, contact:

Stacey Schewaga Leadership Giving and Donor Relations Officer 306-966-4001 stacy.schewaga@usask.ca



hen dentistry students meet Eleanor Ferwerda before observing a surgical procedure for the first time, chances are she will greet them with orange juice and granola bars.

It's one way the College of Dentistry's registered nurse (RN) ensures students have a positive experience, and that they stay on their feet. "The students all really seem to enjoy their surgical rotations but let's just say not all of them survive unscathed," said a smiling Ferwerda.

In addition to teaching them about surgical scrubbing, how to gown properly, where

to stand in the operating room and what to do in an emergency, she encourages students to eat breakfast to stave off fainting, which happens with some regularity. "Dentists work sitting down but they stand all day during surgical procedures and they're not used to that, or to what they're seeing. If they don't eat breakfast, they have no energy to feed off of, and down they go."

It's all in a day's work for Ferwerda, who plays a diverse number of roles in the college.

Ferwerda, who did her RN training in Regina and her specialized training as an OR nurse in B.C., joined the college in 2004 to train students in OR procedures and to manage the oral surgery department. "It's a very specialized area," she said, "and I'm the only employee committed full time to oral surgery."

Over the years though, the scope of the position has expanded. "It's taken on a public health nursing focus so when there's a global event like the outbreak of Zika virus or Ebola, the college turns to me with questions like how to screen patients. I work with U of S campus health resources and with the Saskatoon Health Region to bring that information back to the college."

Her position has also become the infection control officer for the college. Ferwerda said she works closely with the clinic supervisor to evaluate protocols and establish new ones. "Infection control is an area that's always changing and that's affected my role. I do a lot of research and a lot of liaising with other organizations."

One of the challenges is that Ferwerda's position is so unique, she has few colleagues she can turn to when presented with an issue or problem.

"The dentistry college at the University of Alberta has an RN and we talk quite frequently but there's really nobody else to ask so we have to find our own solutions. That said, I'm not shy about asking anyone for the information I need."

Ferwerda is also responsible for organizing CPR courses for faculty and staff, and has started bringing in resource people to instruct them in dealing with emergency situations. "I train the trainers in the kinds of medical simulations we need to do like heart attacks and seizures."

Another aspect of the position "that isn't part of the job description either" is being what she described as "the school nurse"—a medical resource for students, faculty and staff, or just a sympathetic listener.

"Students often come to me when they're not feeling well or just want to talk privately," she said. "Their families are often a long way away and they're alone.

In fact, all of her interactions with students bring Ferwerda enormous satisfaction.

"I really like these wonderful students. It's so fascinating to hear their stories and I'm really interested in what prompted them to pursue dentistry, and what they're going to do after they graduate."

No two weeks are the same for Ferwerda, and that is a large part of the appeal of her work. "The job is never boring and as an RN working Monday to Friday with no shift work, I think I'm blessed." ■

## **IN CASE OF EMERGENCY**

Simulations prepares students for medical incidents in the chair



KRIS DE LA PENA

Dentistry students participate in a medical emergency simulation in the Clinical Learning Resource Centre.



Dr. Kabir Virdi, centre, debriefs with students following a medical emergency simulation.

ecent survey results show practicing dentists in Saskatchewan face, on average, one medical emergency with a patient every 2.5 years. It could be a heart attack, or a seizure, or a patient going into diabetic shock. Whatever the case, this reality raises the question: how prepared are dentists to respond when life and death may be on the line?

For Dr. Kabir Virdi, the numbers validate his efforts to ensure every graduate of the U of S College of Dentistry has the knowledge and, more importantly, the hands-on training to deal with medical emergencies. To do that, he's using one of the most unique and sophisticated simulation facilities in Canada-the Clinical Learning Resource Centre (CLRC).

"There had always been part of our courses dedicated to handling medical emergencies in the dental office," said Virdi but when he joined the college in 2011 as assistant professor of oral and maxillofacial surgery and took on the course directorship of undergraduate oral surgery, basic internal medicine and local anesthesia, "I heard about the CLRC and I said I want to check this out."

Located in the Health Sciences building adjacent to the college, and operated under the auspices of the university's Office of the Vice-Provost, Health, the centre makes it possible for students from all health disciplines to apply their knowledge in a supervised simulated real-life environment.

"It's fantastic," said Virdi. "It's the closest thing to practicing on a real live person and as far as we know, no one else is doing this kind of hands-on medical emergency training for dentistry students."

Students still receive lectures on handling medical situations but they now also get to apply their knowledge in the CLRC, and the scenarios they are presented with are eerily real.

Debbie Briere, CLRC manager, said the exam tables in the centre are adjustable so the

the class are near by, watching events unfold in real time.

From behind a two-way mirror, Briere and Virdi control the mannequin's vital signs and other indicators that signal an emergency. A microphone allows them to respond to questions as if the mannequin were talking, and Briere even consulted local emergency responders to create a 911 script the entire class what went well, why students made the decisions they did, and what each role player might have done differently.

Briere said that teaching teamwork and how to communicate in a crisis is as important as knowing the right interventions because in a real emergency, a life could hang in the balance. Virdi added that while

#### It's fantastic. It's the closest thing to practicing on a real live person and as far as we know, no one else is doing this kind of hands-on medical emergency training for dentistry students.

Dr. Kabir Virdi

high-fidelity mannequins can be positioned in a seated position as a patient would be in a dental chair. The mannequins are dressed in street clothes rather than patient gowns, and props from the college like bibs complete the picture. The simulation room is outfitted with an emergency kit, including simulated medication, based on the equipment recommendations of the College of Dental Surgeons of Saskatchewan.

"We try to provide all of the tools they would have in their practice to manage the situation," Briere. "Then, Dr. Virdi creates the problem he wants the students to manage and we work with him on how the mannequin would react. We also make sure the mannequin responds appropriately to interventions."

Groups of five students are assigned roles for the simulation, she explained—the dentist, a dental assistant, a hygienist, a receptionist and a dental associate. The remaining students in

so if students call for help (the call goes to the control room), the conversation they have will be authentic.

Virdi said the CLRC simulations put into practice everything the students heard in their lectures "but it also amalgamates their knowledge of medicine, pharmacology, physiology. It all comes together for them."

Briere agrees. "They have these beautiful eureka moments."

The circumstances of the scenarios can be changed on the fly, said Virdi, "which is exactly what you do for advanced trauma or cardiac life-support training. I train them for the worst, but even if they do everything right, I might ask that the mannequin go into cardiac arrest to see how they react."

The main advantage to using simulations is that students can make mistakes without consequences, and an in-depth debriefing always follows. There, Virdi and Briere explore with

the focus has to be on patient safety, "to have something go wrong as a dentist is psychologically huge."

The success of incorporating hands-on training has been borne out in a recent table clinic project. Students Ryan Brezinski and Codie Lambert worked with Virdi on a survey of fourth-year students before and after their training. The results show a statistically significant increase in their level of confidence at being able to handle a medical emergency.

Virdi said he timed the training very carefully-early in the second term-"because I want them to be ready before they graduate and do their board exams."

As for next steps, Virdi said he will continue to refine the scenarios for dental students but he also wants to create opportunities for practicing dentists to hone their skills. To that end, the college will be holding a medical emergency seminar late next year. ■

### **NEW FACULTY**



**DR. MARK BERSCHEID** 

r. Mark Berscheid is delighted to be able to combine two of his passions-teaching and kidsin his new position as assistant professor of pediatric dentistry in the College of Dentistry.

"The most important factor that drew me to pediatric dentistry is that I love working with kids," said Berscheid, who took up his tenure-track position in the college July 1. "With kids, we have a lot of fun at work."

Born and raised in Saskatoon, Berscheid graduated from the college in 2011 and spent two years in private practice before pursuing a three-year hospital residency in pediatric dentistry at the University of Manitoba. The teaching experience he gained during that program cemented his decision to return to academia, which opened up a world of possibilities.

"In pediatric dentistry, there are tremendous opportunities everywhere in the country because of a huge shortage," he explained. "In Winnipeg alone, there are 20 pediatric dentists compared to just a handful in Saskatoon and Regina to serve the whole province."

Besides a dearth of practitioners with his specialty, Saskatoon had other lures for Berscheid, including reconnecting with family and friends, and returning the University of Saskatchewan. "I've always liked the university," he said. "I spent a decade here."

He has chosen to take a halftime position in the college, splitting his time between the college and private practice. "It's about finding balance," he said, "but it's also because if you're going to teach something, you have to be good at it, and that means having to do it."

Berscheid teaches pediatrics in second, third and fourth year, and is the third-year program co-ordinator. And even though he loves interacting with students throughout their education, the job is not without its challenges.

"The biggest thing for me is trying to find clinical relevance in everything we teach," he said. "When I'm with students, I try to present clinical scenarios outlining why they need to know what we're teaching."

Berscheid is looking forward to getting involved in table clinic research projects, and to settling into life again in his hometown.

"I'm really happy to be home and excited to be starting a new career. I couldn't have a better script for my life." ■



DR. DIEGO ARDENGHI

r. Diego Ardenghi is a man of many and varied interests when it comes to health care and education, all thanks to his family.

"My mother was a teacher and my father is a physician," explained the new assistant professor of prosthodontics, "so there has always been a strong connection between the two for me."

Ardenghi studied dentistry in his home country of Brazil and, after graduating in 2003, moved to Canada to complete a Master of Arts degree in education at the University of Victoria with a focus on dental ethics. He then went to Montreal to start a PhD program in dental science focusing in dental public health at McGill University but a missing element caused him to change his plans: "I was doing just research and I wanted more contact with patients."

Back on the west coast, this

time at the University of British Columbia, Ardenghi completed a clinical specialty in prosthodontics and a second master's degree in prosthodontics with a research focusing on geriatrics, eventually ending up as an assistant clinical professor at the University of California, San Francisco.

But the lure of the north was strong. "I am a Canadian citizen so I decided to come back to Canada" and despite some concerns about the harshness of prairie winters, he took up his position at the University of Saskatchewan in March 2016.

Ardenghi teaches two courses in removable prosthodontics to second- and third-year students "but I try to always combine dental public health, prosthodontics and education. They do all fit together."

There are issues with the pubic accessing services like prosthodontics, he explained, so gaining a better understanding of the barriers "means that we can implement an education component so students are aware of the issues around that."

Ardenghi has plans for a research project to measure patient satisfaction in this area but also "to bring ethics and social justice issues. If a social group is not receiving proper care, we need to look at that to see what we can do to improve the care for that specific group of the population."

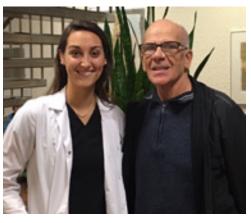
Also of interest to Ardenghi is understanding the efficacy of the actual act of teaching, exploring whether "our teaching methodologies help students understand what they need to learn."

And while he admits he prefers social science research, Ardenghi is also embarking on a lab study that will assess the implications of using different thickness of ceramic materials in esthetic veneer restorations.

## AN OVERDENTURE FIRST FOR THE COLLEGE



Dr. Vincent Torresyap is hoping to expand the student implant program in the 2017-18 academic year.



Student Christina Chiesa did the overdenture treatment plan for patient Winston Pengelly.

arly next year, a patient at the College of Den-Itistry will receive an implant-retained overdenture. It will be the first time the procedure is performed in the college but Dr. Vincent Torresyap believes there are many more to come as its benefits become more widely known.

"The biggest advantage of an overdenture for the patient is quality of life," said the assistant professor of prosthodontics. "Nutrition becomes increasingly important in the elderly," many of whom struggle to eat with conventional dentures. An implant-retained overdenture is a more stable and retentive option, allowing patients to eat the foods they love without worry, he said.

"They also get their confidence back because they can talk more comfortably and socialize."

The college would like to see more denture patients, he said. Information on the college's denture program has been sent out to the community but Torresyap speculated there is still a lack of knowledge about overdentures. That said, when they find out, "people are actually interested in what it is. Some even say they wish they'd known it was an option earlier."

Among the indicators of when an overdenture is appropriate are advanced atrophy of the bone, difficulty with retention of a conventional denture, poor muscular co-ordination in handling a conventional denture, and patient expectation that there is a solution to their current denture issues.

He described the overdenture fitting like a trailer hitch—a silicon ring inside the denture fits over the implanted locator attachments. "Once the patient is three months post surgery and healed, you just snap it on. That's the best part it's not going to go anywhere."

Fourth-year student Christina Chiesa did the treatment plan for the college's first overdenture, and Torresyap is hoping there will be many more. "This actually serves the public better," he said. "This





is actually supposed to be the standard of care."

Torresyap is planning a survey to gauge public knowledge about overdentures and its benefits. The results could inform his effort to grow the college's implant program, which has been in place since 2007, and expand the students' clinical experience.

"Students know how to do a single implant crown," said Torresyap, who has headed the program since 2012. The goal is to introduce implant treatment planning and implant restorations to provide a solid foundation of knowledge for students to build on. Since it is primarily a prosthetic implant program, students will not be qualified to surgically place implants without further education and experience, he added.

One of the developments of the implant program was the collaboration with Dr. Garnet Pakota and Oral and Maxillofacial Radiology, he said.

"Students now can assess in three dimensions the anatomical limitations of the patient in the treatment planning—Cone Beam CT (CBCT) scan will tell you all of that." The next step, he continued, is acquiring digital treatment planning software for student to plan an implant virtually and accurately guide the placement of implant in a safe, and more predictable

Torresyap hopes to see the student implant program expanded to include implant overdentures and digital implant planning in the 2017-18 academic year. ■

## **TABLE CLINICS 2016**



Austin Andrews makes his case before the judges.



Top three Table Clinic 2016 teams were, from left to right, Austin Andrews; Largesa Loga and Stacy Harasymuk; and Troy Kirkpatrick, Abe Khaleghi and Jared Anderson.



Table Clinic 2016 winner Austin Andrews is congratulated by Dr. James Stevenson of the Saskatoon Dental Society.

n Sept. 30, 12 teams of students from the Class of 2018 took the stage in a University of Saskatchewan lecture theatre to present their findings in the Table Clinics 2016 competition.

Before a panel of judges that included full- and part-time faculty from the College of Dentistry and the College of Medicine as well as a large audience, the students presented their research and answered questions. In the end, three emerged winners:

Stacy Harasymuk and Largesa Loga, with supervior Dr. Rick Jaggi from the College of Medicine: Oral Cancer in Saskatchewan: An Evaluation of the Presentation and Time Delays Associated with the Disease.

Troy Kirkpatrick, Abe Khaleghi and Jared

Anderson, with supervisor Dr. Assem Hedayat and Dr. Garnet Packota: Efficacy of Radiographical Discovery of Pulp Stones in Early Detection of Cariovascular Disease.

Austin Andrews, with supervisor Dr. Ken Sutherland: Dental Simulation Technology: An Aid in Developing Clinical Compentency.

The University Club on the campus of the University of Saskatchewan was the location of the final presentations Oct. 11 by the three teams, and the announcement of an overall winner. At the event, hosted by the Saskatoon Dental Society, Andrews was awarded top prize with Kirkpatrick, Khaleghi and Anderson taking second, and Harasymuk and Loga taking third. ■



## **CONGRATULATIONS CLASS OF 2016**









## SPRING CONVOCATION



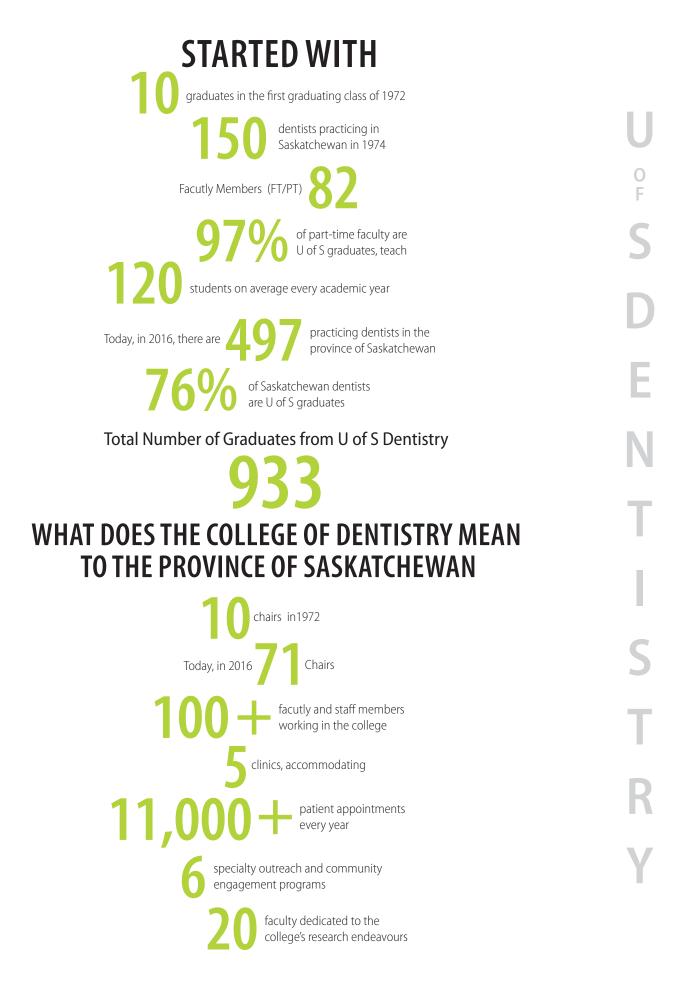








usask.ca/dentistry/alumni/recall-magazine.php





## **CHANGE FOR CHILDREN**

## **ECUADOR**

By Dr. Josh Marshall and Dr. Shane Van Biezen



or the second year in a row, two fourth-year students had the privilege of travelling abroad with the Change for Children organization to provide dental care to those in need.

Change for Children is a non-profit organization that serves some of the most remote areas of the world. Every year they provide dental and medical care, education and support for water development projects. They improve the lives of those who are less fortunate and help a countless number of people.

Drs. Nekky Jamal and Raegan Eliasson offer students scholarship opportunities to travel abroad and perform dentistry. The students are part of a diverse team helping make a difference in the lives of others while advancing their own clinical skills. Josh Marshall and I, Shane Van Biezen, were eager to be a part of this exciting and rewarding experience.

This year's trip started at Houston International Airport where we met other members of the brigade team before heading down to Ecuador. Landing in Quito, the capital city of Ecuador, we were immediately wowed with the vast landscape of green rolling hills and dense vegetation. It was beautiful! After spending a night in Quito,



Change for Children Ecuador participants were, from left to right: Drs. Josh Marshall, Shane Van Biezen, Nekky Jamal, Alexis Graham, Nicole Povey, Erik Johnson and Dacre Hamilton.

we boarded a bus and travelled to our first clinic in the remote mountain ranges that would be our home for the next few days.

No one could have prepared us for the amount of work that lay ahead. The next few days consisted of setting up our makeshift operatories in community halls or school gymnasiums, and providing dental care to several hundred kids a day. Clinics ended late in the day only when all the waiting children had received the appropriate care.

The majority of our days were spent extracting un-restorable infected teeth, restoring simple areas of decay, providing hygiene, and giving important oral hygiene instructions for home care. At the end of each day, the team was exhausted, both mentally and physically.

Most of our challenges came when trying to communicate with the patients. It forced us to find other ways of communicating. Each day was a challenging yet humbling experience.

Upon finishing our clinic days in the mountain ranges, we boarded a bus back to Quito and flew into Los Agrios. We then travelled several hours by bus and boat into the remote region of the Cuyabeno Wildlife Reserve on a tributary of the Amazon near the boarder of Colombia. We set up our last few

days of clinic in the Sequia community where many of the residents had never seen a dentist or medical professional. The joy we saw on the faces of the kids and their families was indescribable. To show their gratitude, we were fortunate enough to be invited into their homes and even had several home cooked meals.

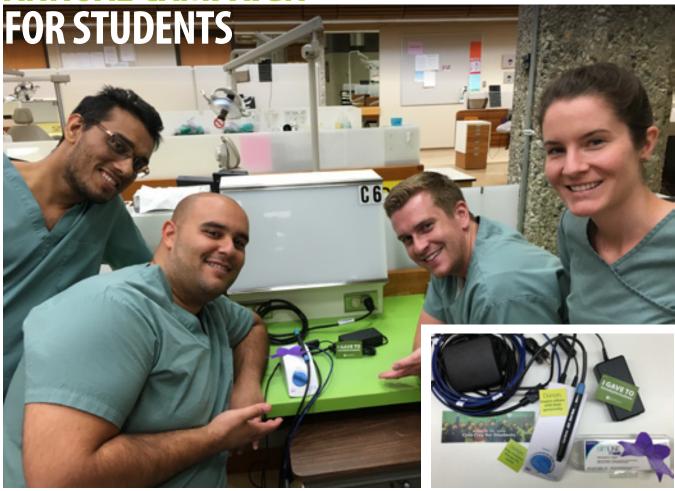
To describe our experience as humbling would be inadequate. However, we all gained a greater understanding of just how fortunate we are to live in a country with access to medical care, clean running water and all the other amenities we take for granted on a daily basis.

Dr. Jamal and Dr. Eliasson

are continuing their scholarship program this coming year. Drs. Nekky Jamal and Erik Johnson, Josh Marshall and myself will be travelling with three fourth-year students-Jordan Enns, Jason Kopchynski and Brett Spenrath-this year. This dental brigade team will be travelling to the volcanic region of Chinandega, Nicaragua.

The generosity of alumni like Dr. Jamal and Dr. Eliasson provides a once-in-a-lifetime opportunity to students. This experience gives them the opportunity to provide the local communities with dental care, which they would otherwise never receive.

## <u>ANNU</u>AL CAMPAIGN



Students appreicate the new Cavitron for the student clinic.

#### The generosity of alumni and friends is making a difference to students in the College of Dentistry.

n March 10th 2016, the University of Saskatchewan held its annual One Day for Students, a chance for people with a passion for post-secondary education to provide additional support for students. On that day, more than \$1,000 was raised in support of the College of Dentistry Infrastructure Revitalization Fund, including a matching donation from Dr. Paul Teplitsky.

Those generous contributions made possible the purchase of an additional Cavitron for the student clinic. The result is that wait times for students on the clinic floor are now shorter. which ultimately leads to improved patient care. It is another step toward ensure the experiences of both students and patients are the best they can possibly be.

Further support came from the University of Saskatchewan's Annual Campaign for Students, which funds a number of Opportunity Awards for first- and second-year dental students that help relieve the financial burden of post-secondary education.

Here's what two students had to say after receiving an Opportunity Award:

"Dentistry is not cheap, and so every dollar matters. I am funding my own education (so) re-

ceiving the Opportunity Award will allow me to continue my dream and passion to ultimately become a dentist. Thank you for your generosity." - Brendon

"When I found out I had been accepted to dentistry at the University of Saskatchewan, I was ecstatic, but I realized just how much of a financial burden this degree was going to place upon me. This scholarship will

relieve some of that burden and take with it the stress of procuring those funds, and for that I am extremely grateful." -Christopher

The students are appreciative of everyone-faculty, staff, alumni and friends-who contributed to the Annual Campaign for Students and One Day for Students, and ultimately to their bright futures. ■

For information about these and other opportunities to donate to the College of Dentistry, contact:

Stacey Schewaga **Leadership Giving and Donor Relations Officer** 306-966-4001∣ stacy.schewaga@usask.ca

## FALL FORMAL By Christy MacPherson





Year One class Year One class





Year Two class





Year Four class and guests

he 2016 Fall Formal/Welcome was held Oct. 15 at the Saskatoon Sheraton Cavalier Hotel. The evening's festivities began with dinner and an introduction of the Class of 2020 by Dr. Darcy Allen. Several awards were handed out to upper-year students: Whitney-Lynn Sparrow was the recipient of the Dental Anatomy Award, with fellow student Ken Tomchuk accepting the award on her behalf; Abe Khalegi received the Anthony A. Blasko Memorial Scholarship; Marina Jones was awarded the W.A. Cotter Memorial Award; and Andrew Doig received the Dr. Kirk Johnston Spirit of Dentistry Award, all to rousing applause.

Grace Kang delighted the audience with a musical interlude on piano before Drs. Jory Longworth and Vincent Torresyap were called up to accept the Excellence in Teaching Awards. The Challenge Cup Award and the Dr. Teplitsky "Desire to Win" Awards were received by "The Students" and Kyle Diakow, respectively.

The evening's most infamous award—the Boot Play Award—was introduced by Dr. Dennis Lanigan, who regaled the audience with details about each of the nominees and their efforts to win the award. Despite tough competition, Year 4 student Lauren Tarasoff was selected as the winner for an attempt at multitasking that took a few wrong turns.

Finally, Nazli Abtahi was awarded the Most Likely to Succeed Award, and the evening closed with a lot of laughs and a packed dance floor. ■





## **ACTIVITY DAY**











**★** he College kicked off the 2016-2017 academic year with our annual Activity Day, sponsored by MNP and CDSPI, on Aug. 18. Buena Vista Park played host to over 160 faculty, staff, students and their guests for the afternoon to welcome the incoming Class of 2020 and celebrate the beginning of a new academic year.

Although black clouds loomed for most of the morning and a brief rain shower passed during setup, the sun shone for the event. Rick Kroener from Carlton Labs and his band The Residuals filled the park with music as guests enjoyed outdoor activities and catching up with friends. Many budding lawn bowlers spent the afternoon at the Nutana Lawn Bowling Club where club staff was on hand to provide lessons and lots of encouragement.

And it wouldn't be Activity Day without ice cream. Staff from MNP greeted guests as they arrived with ice cream vouchers. The traditional ice cream sandwiches were replaced by delectable ice cream cones served up by Robert Hodgson and his crew in the Mean Green Ice Cream Machine.

The afternoon wrapped up with a tasty meal served by Country Style BBQ. As guests enjoyed their meal, many lucky winners were awarded door prizes donated by various dental companies. And of course Dr. Sutherland called upon the new Year 1 students to introduce themselves. ■



## **KENT McLEOD GOLF**











here was no lack of enthusiasm, or costume ingenuity, at this year's Kent McLeod Memorial Classic, which took place Sept. 10 at Saskatoon's Moon Lake Golf and Country Club. Students, faculty and friends of the College of Dentistry gathered for the annual event to show off their golfing prowess and raise money for scholarships. This year's fundraising totalled \$8,000. Thanks to everyone who participated.

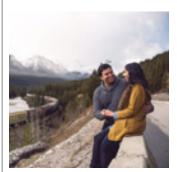


## **CELEBRATIONS**

#### **ENGAGEMENTS**



Michael Fowler (class of 2014) & Kira Novak

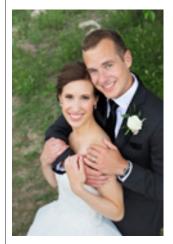


Harinder Grewal & Simon Haimanot (class of 2015)



Jay Lalli (class of 2012) & Heather Sandhu

#### **WEDDINGS**



Chelsea Trudeau (class of 2016) & Blake Voth



Rob Mintenko (class of 2013) & Daniela Castro



Alexa & Greg Trischuk (class of 2014)

#### **ARRIVALS**



Alexander Jacob Howe



Henry Schmidt



Simrin Sarai Virdi



**Grayson Davies** 



Quinn Ivy Anholt



Dr. Heather J. Conrad, centre, was named Educator of the Year.

## **EDUCATOR OF THE YEAR**

r. Heather J. Conrad was presented with the American College of Prosthodontists' Educator of the Year award by ACP President Dr. Frank Tuminelli, left, and last year's recipient, Dr. Hiroshi Hirayama, at the college's annual awards and president's dinner in Orlando, Florida late last year. The award honours dental educators for outstanding contributions to the welfare and advancement of the college and the specialty of prosthodontics, overall achievement to academic dentistry, and contributions to the sciences and health professions. Dr. Conrad is associate professor and director, Advanced Education Program in Prosthodontics, School of Dentistry at the University of Minnesota. ■

## **NEW FELLOWS**

ollege of Dentistry faculty member Dr. Vincent Torresyap received his Fellowship in prosthodontics at the 51st annual convocation of the Royal College of Dentists of Canada held Sept. 24 in Montreal, Quebec.

Two College of Dentistry alumni-Dr. Mark Berscheid, who is a new faculty member at the college, and Dr. Colin Bonnet-were unable to attend the convocation but received their Fellowships

in absentia in, respectively, the specialties of pediatric dentistry and periodontics.

The RCDC administers the National Dental Specialty Examination for all dental specialties. Once candidates pass the examination, they are eligible to be licensed as a specialist in all provinces in Canada, and are also eligible to become a Fellow of the RCDC and use the title FRCD(C) after their name. ■



Dr. Christopher Robinson, left, president of the Royal College of Dentists of Canada, presented Dr. Vincent Torresyap with his Fellowship certificate.

### **PUTTING HER HEART INTO HER WORK**

hen Susanna Kim took a summer job in a research lab, she didn't expect it would involve a 50-kilometre bike ride, but it was all for a good cause.

The second-year dentistry student was part of a team that took part in the Heart and Stroke Foundation's annual Ride for Heart event held June 5 in Toronto. Kim admitted it would have been hard to say no to participating since the lab where she worked doing heart research is funded by the event, and the professor in charge was one of the principal researchers.

Kim and her lab colleagues—team Translational Bikeology—together raised \$12,116, with Kim contributing \$350 of that total in pledges she received from family, friends and College of Dentistry classmates. "The whole lab really got involved in fundraising," she said, "and it got quite competitive with other labs."

Although she was riding a bike she borrowed from her sister and feeling a bit out of place among serious bikers, Kim said the event was a lot of fun, "especially doing it with a group of people." It was also very scenic since the ride took place on the blocked-off Gardiner Expressway and Don Valley Parkway through downtown Toronto.

It was a highlight of her summer spent

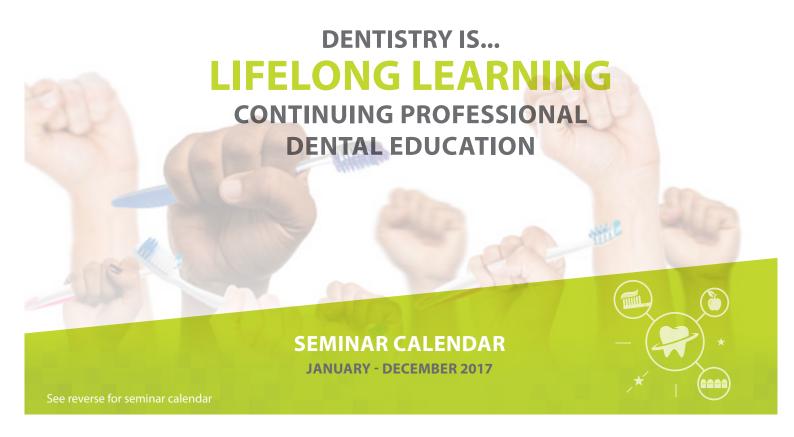
at the Ted Rogers Centre for Heart Research at the University of Toronto. Working with Faculty of Dentistry professor Dr. Craig Simmons, Kim did contractility research on various types of stem cells used in engineering human heart valves. It was also a job that sat-



isfied her keen interest in research.

Raised in Toronto. Kim did an undergraduate degree in anatomy and cell biology at McGill Uni-Susanna Kim versity in Montreal where she learned

her way around laboratories. She worked part time during her undergraduate years as a biology lab technician, she said, did her independent research project for her degree in an embryonic cell-signaling lab and worked summers in a neuroscience lab. ■



In an effort to help in planning your Continuing Professional Dental Education needs, the full 2017 seminar calendar is now available! The majority of seminars are applicable to all dental health professionals. Sign up before December 31, 2016 to take advantage of **NEW** pricing options.

#### **NEW PRICING OPTIONS FOR 2017**

#### **Bundle Pricina**

Bundle any 3 regular priced classes from the 2017 seminar line up and receive a 30% discount.

#### **Dental Practice Pricing**

Register 2 or more individuals from the same dental practice for a regular priced class or classes from the 2017 seminar calendar and receive a 30% discount.\*

\*Must use the registration form and fax or call to register

Options are only available until December 31, 2016

#### REGISTRATION INFORMATION

Online registration can only process single individual registrations. For multiple person registrations use the registration form and fax or call to register.

#### 1. Register Online

www.usask.ca/dentistry/cpde

Note: Look for the 'Register' button on the top navigation bar

#### 2. Register by Phone

Call 306-966-5539

#### 3. Register by Fax

Fax the completed form to: 306-966-5567\*

\*Registration forms can be found on the CPDE web site

#### Full course infomation and pricing details can be found on the CPDE web site:

www.usask.ca/dentistry/cpde

Our goal is to continually improve our offering. If you have any feedback or suggestions on potential topics and/or speakers, please contact me directly:

> Jason Korte, Continuing Professional Education Coordinator College of Dentistry, University of Saskatchewan T: (306) 966-5662 | M: (306) 270-3933 | Email: jason.korte@usask.ca



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#### **CONTINUING PROFESSIONAL DENTAL EDUCATION**

#### Seminar Calendar

January - December 2017



#### 2017

#### **SATURDAY, JANUARY 14, 2017**

Practice Management: New Game, New Rules, New Playbook. presented by the Levin Group

Presenter: Roger Levin, DDS, founder and CEO of Levin Group Time: 8AM - 3:30PM

Location: Saskatoon - UofS - Louis Loft - Memorial Union Building (93 Campus Drive)

Credits: 6

Audience: All (D, H, T, A)

#### **SATURDAY, FEBRUARY 11, 2017**

CAD/CAM Revolution: Single Visit Zirconia, Integrated Implantology and Ortho Software (Hands-on)

presented by Patterson Dental

Presenters: Dr. Julaini, DDS; Carmen Rabuka, DMD

Time: 8AM - 2:30PM

Location: Saskatoon - UofS- Health Sciences Building: D Wing -

Room GD04 (107 Wiggins Road)

Credits: 5

Audience: All (D. H. T. A)

#### 2017

#### SATURDAY, MARCH 18, 2017 **Current Trends in Endodontics**

Presenters: Aly Phee, BSc, DMD, MSc, FRCD (C); Carlos Ochoa, DDS, FRCD (C); Blayne Thibodeau, DMD, MS, FRCD(C); David Stark, BSc, DMD, MS; Christine Berthold, Med Dent, PhD; Keith

Plain, BSc, DMD, Cert. (Endo.), FRCD(C) Time: 8AM - 4PM

Location: Saskatoon - UofS - Louis Loft - Memorial Union

Building (93 Campus Drive) Credits: 6.5

Audience: All (D. H. T. A)

#### **SATURDAY, APRIL 8, 2017**

#### **Dental Day YXE**

Volunteers of all disciplines required. Receive 1 CE credit/hour of volunteer activity!

Presented by: University of Saskatchewan College of Dentistry Time: 8AM - 4PM

Location: Saskatoon - UofS - College of Dentistry Dental Clinic

Building (105 Wiggins Road) Credits: Recieve 1 CE credit/volunteer hour

Audience: All (D, H, T, A)

If interested in this opportunity, contact: Dr. Danielle Briere - dab505@mail.usask.ca Dr. Alyssa Hayes - alyssa.hayes@usask.ca

#### SATURDAY, APRIL 29, 2017

#### **Geriatric Medicine and Geriatric Dentistry** for the Dental Team

Presenter: Michael Wiseman, DDS, DABSCD, M RCS (EDIN) Diplomate of the American Board for Special Care Dentistry, Member of the Royal College of Surgeons of Edinburgh in Special Care Dentistry, Assistant Professor McGill University, Faculty of Dentistry

Time: 8AM - 4PM

Location: Saskatoon - UofS- Health Sciences Building: E Wing -Leslie and Irene Dubé Theatre, Room E1150 (107 Wiggins Road)

Credits: 6.5 Audience: All (D, H, T, A)

#### 2017

#### **SATURDAY, MAY 20, 2017**

#### **Pharmacy and Therapeutics Update**

Presenters: Kabir Virdi, DMD, FRCD(C), Oral & Maxillofacial Surgery - Assistant Professor, College of Dentistry - UofS; Jaris Swidorvich, BPS, PharmD - Lecturer in Pharmacy - College of Pharmacy & Nutrition - UofS

Time: 8AM - 12PM

Location: Saskatoon - UofS- Health Sciences Building: E Wing -Leslie and Irene Dubé Theatre, Room E1150 (107 Wiggins Road) Credits: 4

Audience: All (D, H, T, A)

#### SATURDAY, JUNE 3, 2017

#### **Digital Guided Surgery and Impression** Scanning Technology: A Lecture and Hands-

on Course presented by Sinclair Dental

Presenters: Jill Bashutski DDS, MS, FRCD(C), ABP Diplomate; **Bert Rietel** 

Time: 8AM - 4PM

Location: Saskatoon - UofS- College of Dentistry: Room 334 & Dental Clinic for hands-on portion (105 Wiggins Road) Credits: 6.5

Audience: All (D, H, T, A)

#### SATURDAY, OCTOBER 28, 2017

#### **Evidence Based Management of TMD**

Presenters: Lou Mercuri, DDS, MS Visiting Professor, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, II; Gary D. Klasser, DMD, Cert. Orofacial Pain, Associate Professor, Louisiana State University Health Sciences Center, School of Dentistry, Department of Diagnostic Sciences

Time: 8AM - 4PM

Location: Saskatoon - UofS- Health Sciences Building: E Wing -Leslie and Irene Dubé Theatre, Room E1150 (107 Wiggins Road) Credits: 6.5

Audience: All (D, H, T, A)

#### 2017

#### SATURDAY, NOVEMBER 25 & 26, 2017

#### 2-Day Minimal Conscious Sedation Seminar (Hands-on)

Presenter: Peter Nkansah, MSc, DDS, Dip. Anaes., FADSA, Specialist in Dental Anaes. (ON), FPFA, FACD, Private practice, Sleep For Dentistry, Assistant Professor, University of Toronto Time: 8AM - 4PM

Location: Saskatoon - UofS- College of Dentistry: Room 334 & Dental Clinic for

hands-on portion (105 Wiggins Road)

Credits: 13

Audience: Dentists only

#### **SATURDAY, DECEMBER 2, 2017**

#### **CPR Certification/Dental Emergencies** (Hands-on)

Presenters: Kabir Virdi, DMD, FRCD(C), Oral & Maxillofacial Surgery - Assistant Professor, College of Dentistry - UofS; Alyssa Hayes, BDent (Hons), MSc DPH, FRCD(C) - Assistant Professor, College of Dentistry - UofS

Time: 8AM - 4PM

Location: Saskatoon - UofS- Clinical Learning Resource Centre: Health Sciences Building:

E Wing RM E2350 (104 Clinic Place Wiggins)

Credits: 6.5

Audience: All (D, H, T, A)

#### For full seminar details, please visit the Continuing Professional **Dental Education web site at:**

www.usask.ca/dentistry/cpde/seminar-summaries.php



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