

Harvard Dental

bulletin

Spring 2016
Volume 76, Number 1
Harvard School of Dental Medicine

New Curriculum Gives
DMD Students Earlier
Clinical Experience



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Cover photo:

Give Kids a Smile 2016



Student Highlight

Second-year DMD student Nisarg Patel, is one of ten finalists in this year's *President's Challenge*. Read more about his project on page 10.

The *Harvard Dental Bulletin* is published twice a year for alumni and friends of Harvard School of Dental Medicine. We look forward to receiving your feedback and news.

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Dear Alumni and Friends,

The first day of spring in Boston blew in with a snowstorm that was expected to drop eight inches of snow on the city. We did get a small storm but by afternoon the sun was shining and the snow melted. The change in seasons can be like changes in education—often fleeting, fads or experiments. Some changes, can be transformational. Three categories of change exist but they are fundamentally different. Here at the Harvard School of Dental Medicine curricular change is a way of life.

During my time as Dean we have seen a Faculty Group Practice created, problem-based and case-based learning introduced, and a new building rise. A recent article in the *Harvard Business Review* examined what is meant by transformational change. Operational change means doing things better, faster or cheaper. Change in the operational model can be a transformation and so new methods of teaching and learning like the flipped classroom and digital methods for learning and patient care involve doing what we currently do in a fundamentally different way. Blending together operational model change and strategic transformation allows us to include disruptive change in our own future, rather than be disrupted by it. In this issue of the *Bulletin* you'll learn about changes in the HSDM curriculum and how new programs we started this past fall and winter are now flourishing.

Our students have been thrilled to get hands-on clinical experience earlier in their education through a new primary care clinic rotation called the Foundational Continuity Clinic (FCC). I encourage you to read DMD student Mirissa Price's reflection on page three, which is a wonderful tribute to our philosophy of dental education. Students have also had the opportunity to work side-by-side in the clinic with Northeastern University nurse practitioner students through an innovative program funded by a Health Resources and Services Administration (HRSA) grant. Both



programs focus on serving the primary care and oral health care needs of Boston area patients and their families, and we hope these efforts will serve as national models for the integration of oral health and medicine—our core mission.

Longtime HSDM faculty member, friend and advocate, Donald Giddon, DMD59, PD61, profiled in this issue, exemplifies leadership in the transformation and growth of dental medicine. A champion of promoting the work of oral physicians, Dr. Giddon recently became professor emeritus of Developmental Biology, and continues to make significant contributions to the profession and to the School.

Much of the work we do at HSDM is sustained by the financial support of our friends and donors. The donor issue of the *Bulletin* recognizes and celebrates your generosity. We're pleased to highlight an extraordinary planned gift of \$2 million recently announced by Gordon and Ruth Macdonald. Their gift demonstrates a commitment to the School and to future students and scholars. We're thankful for friends like the Macdonalds, and for all of you. Your dedication to the School's mission allows us to grow and thrive, and for that we are most grateful.

Thank you again,

Bruce Donoff, DMD67, MD73

New Curriculum Gives DMD Students Earlier Clinical Experience

Dental students Ingrid Carvo and Daniel Brein work on a patient at the Teaching Practices of the Harvard Dental Center. They are observed by Drs. Inyang Isong and Armando Pardo.



In September 2015, Harvard School of Dental Medicine (HSDM) began a new program that brings primary care medical education into the predoctoral dental curriculum. The new primary care clinic rotation called the Foundational Continuity Clinic (FCC) and Leadership in Oral Health and Primary Care (LOHPC) takes place in HSDM's Student Teaching Practices clinic. As part of the Practice of Medicine course, first-year dental students spend a bi-weekly four-hour session in the teaching clinic every week, overseen by fourth-year dental students, and primary care physicians who serve as teachers and mentors.

"The aim of this experience is to teach foundational clinical skills and primary care medicine with a focus on oral health, using the primary care rotations for students in a dental setting as a platform for change in our approach to patient care," said Dr. Sang Park, MMSc01, PD01, Associate Dean for Dental Education.

The innovative course gained the attention of the *Boston Globe* and its medical publication, *STAT* which reported on the program in a November 9, 2015

article: "Fluoride and a physical: Patients see docs at the dentist." The article highlighted efforts to break longstanding barriers between how the mouth is treated as separate from the rest of the body, and showed how the course teaches dental students to detect potentially chronic conditions such as high blood pressure, diabetes, or depression.

Students and faculty have been enthusiastic about the new addition to the curriculum.

"I think this program is long overdue," said Dr. Hugh Silk, one of the instructors. "We have been teaching medical students in some schools for a while now to think more about the mouth and so it makes sense to teach dental students to think about the patient in a more holistic manner. I can already see the enthusiastic look in patient's eyes that denotes they are pleased that their dentist cares about ALL of them."

For first-year dental students, it is a chance to get to hands-on exposure to dentistry earlier in their education and to make the connection between their medical courses and their future profession.

“The dental FCC curriculum has proven continuously rewarding,” said Mirissa Price, DMD 2019. “I have seen the benefits in my skill and comfort in the dental clinic this year; moreover, many of the patients have expressed great appreciation for the primary health aspects of our Wednesday clinic.”

An article about the program and its results was recently published in the Winter 2016 *Journal of the Massachusetts Dental Society*. See “A New Integrated Oral Health and Primary Care Education Program in the Dental Student Clinic” by Sang Park, MMSc01, PD01, Fidencio Saldana, MD01, MPH05, and Bruce Donoff, DMD67, MD73.

Second-year curriculum blueprint

This January, further curriculum changes were proposed based on feedback from the Curriculum Redesign Task Force, Curriculum Committee, and student focus groups. The new curriculum blueprint will go into effect after the Class of 2019 finishes their first year at Harvard Medical School. The new second-year curriculum based at HSDM will highlight the integration of basic, behavioral, and clinical sciences by using innovative pedagogical approaches like Case Based Collaborative Learning (CBCL) and flipped classrooms where the lecture and homework elements of a course are reversed.

It will also introduce three new courses: *Oral System Sciences (OSS)* a course covering concepts of craniofacial and neck anatomy, craniofacial development and genetics, oral physiology, oral microbiology and immunology and oral pathology and pathophysiology and applications to patient care through integrated case-based studies; *Principles of Oral Health (POH)* a course that will introduce students to the different types of dental patients and factors from behavioral sciences and dental public health, and provide clinical exposure through hospital-based programs; and *Scholarship in Oral Health (SOH)* which will expand the opportunity for students to engage in longitudinal research and inquiry. Students will formulate a research proposal including an introduction, background and significance, methods, analyses and discussion, followed by an oral presentation and participation in HSDM Student Research Day.

Student reflections

by Mirissa D. Price, 2019 DMD Candidate

“Are you in dental or medical school?”

Three people asked me this question today, and three times I began with the simple reply, “Yes.”

Thus far at Harvard, I have been studying with the medical school. I have been taking medical classes focused on systemic physiology and disease. I have been seeing hospital patients with chief complaints ranging from cirrhosis of the liver to colon cancer. I have donned a white coat and stethoscope as I entered Beth Israel Deaconess Medical Center, and I have learned the basics of a musculoskeletal examination on notably all of the joints except the temporomandibular joint.

Finally, wearing scrubs and a gown, I carried that same stethoscope into a dental clinic, and the feeling was unbelievable. Being in a dental office, I felt at home. I interacted with patients, did a role-playing intake interview, and explored the AxiUm computer system. I witnessed an assessment of the temporomandibular joint and learned about the oral manifestations of sinus pressure. Everything around me was so enthralling, grounding me in my passion for dentistry.

Unexpectedly, this experience also enhanced my appreciation for the curriculum at Harvard School of Dental Medicine. Yes, we are effectively in medical school at the present. Yes, we are learning maneuvers to assess bowel function and spleen abnormalities. Yet, we are doing this to become better providers of oral health care. We are doing this because of the integral intersections between oral and systemic health, the intersections I witnessed today in a review of a diabetic's and a recovering addict's chart. While many dentists learn to care for oral health, we at Harvard School of Dental Medicine are learning to treat our patient's overall health and are thereby leading the dental field in a direction of medical integration that I so poignantly experienced today. We ended the day with heightened appreciation for the value of treating patients not as dentists but as oral physicians.



Mirissa D. Price

Combating the Opioid Crisis Through Education

NIH funds educational modules in pain management



A distressed patient arrives at a dental clinic complaining of jaw pain and pleading for pain medication. The dentist suspects it might be temporomandibular joint disorder (TMJ), but closer examination reveals years of neglected dental disease, a history of substance abuse, and potentially a more serious condition that could be cancer.

The scenario is one that could happen in any dental clinic or doctor's office, but this particular example is part of a detailed training module designed to educate health care professionals who have to make critical treatment decisions that often include prescribing prescription drugs.

The National Institutes of Health (NIH) recently awarded Harvard School of Dental Medicine (HSDM) and collaborators from other Boston health education institutions a 5-year \$494,000 contract from the

National Institute of Drug Addiction to create case-based training modules that will educate students and health care professionals in dentistry, medicine, nursing, and pharmacy about pain management and appropriate opioid prescribing.

Dr. Jeffry Shaefer, assistant professor of Oral and Maxillofacial Surgery, is principal investigator for the NIH contract along with co-principal investigator Dr. Antje Barreveld, an anesthesiologist with Newton Wellesley Hospital.

Shaefer, who teaches pain management at HSDM, brought together collaborators from Harvard Medical School, Massachusetts College of Pharmacy and Health Sciences, Regis College of Nursing, Massachusetts General Hospital, Institute of Health Professions, Brigham and Women's Hospital (BWH) Pain Management Center and the BWH Department of Anesthesiology, Perioperative and Pain Medicine to apply for the funding. The NIH named Harvard School of Dental Medicine the lead institution in the Boston-based Center of Excellence in Pain Education (CoEPE) in 2012—it is one of eleven NIH CoEPEs nationwide.

"The most important thing we can do is teach proper pain management in schools," Shaefer said. "The key is to not only teach the prescriber appropriate use of controlled pain medications but also an understanding of the patient's disease process and how to properly evaluate the patient's response to treatment," he said.

Shaefer has already introduced the first training modules to third-year HSDM students and plans to use their feedback to refine future modules. The NIH award will also support inter-professional workshops that will bring dental, medical, nursing and pharmacy students together for pain management education. The modules have potential applications in continuing education courses as well. Eventually, the modules that the HSDM CoEPE creates, along with modules from the other 10 CoEPEs, will be available to the public on an NIH website.



Governor Baker spoke at a press conference on February 11, 2016 where he announced the new dental core competencies with the deans of the Commonwealth's dental schools and members of the Massachusetts Dental Society.

New core competencies for Massachusetts' dental students

On Thursday, February 11, Dean Bruce Donoff, DMD67, MD73, along with the deans of Boston University and Tufts schools of dental medicine, gathered at the State House for an announcement by Governor Charlie Baker about new dental education core competencies for the prevention and management of prescription drug misuse.

“Educating our dental providers on prescribing practices for opioids is a critical step toward preventing drug misuse as we continue to combat this public health crisis.”

—Governor Charlie Baker

“We are thrilled to stand with the Commonwealth’s dental schools and the Massachusetts Dental Society to introduce our second set of core competencies that are bound to educate our students and help curb this epidemic,” said Governor Baker.

The set of cross-institutional dental core competencies follow similar curriculum changes announced last year by Massachusetts medical schools. The core competencies

are designed to support future dentists, over the course of their dental education, with both skills and a foundational knowledge in the prevention of prescription drug misuse and the effective management of pain.

More than 1,800 enrolled undergraduate dental students and 550 advanced graduate dental students in Massachusetts will receive enhanced training in primary, secondary, and tertiary prevention strategies regarding prescription drug misuse.

“Dentists are in a particularly unique position to have an impact, as they typically have regular contact with their patients and commonly address issues of preventive health and wellness in their oral health regimes,” Dean Bruce Donoff said.

The dental core competencies were the result of a collaborative effort with the Governor’s Working Group on Dental Education on Prescription Drug Misuse led by State Public Health Commissioner Dr. Monica Bharel, MPH12. Representatives from all three Massachusetts schools of dental medicine including, John Da Silva, DMD87, MPH87, PD89, PD91, SM92, associate professor of Restorative Dentistry and Biomaterials Sciences, and vice dean of HSDM, and David Keith, DMD83, professor of Oral and Maxillofacial Surgery, participated in the process.

Dr. Donald B. Giddon

Champion of the Oral Physician



Dr. Giddon, professor emeritus with Dr. Chester Douglass, professor emeritus.

Donald B. Giddon, DMD59, PD62, became professor emeritus of Developmental Biology in July 2015 after serving more than 50 years in various academic capacities. Far from being retired, Dr. Giddon is moving ahead with new oral health initiatives about which he is most passionate. He has rededicated himself to championing the designation of “oral physician” for medically trained dentists, and continues to engage colleagues across Harvard University in discussing the importance of oral health.

With a long and celebrated academic career, and his great knowledge of the history of the Harvard School of Dental Medicine, Giddon has been asked to have a role in the planning and implementation of the upcoming celebration of the 150th anniversary of the School.

From the stage to lectern

As a young boy growing up in Newark, New Jersey, Giddon took an early interest in technology. He had an affinity for machines and electricity, facilitated by training as a ham radio operator during World War II. It led Giddon to his first scientific, if not so well received endeavor. With little more than alligator clips and a screwdriver he tapped his neighbors’ telephone lines and managed to interfere with radio signals and replace their programs with his own voice. Thus, Giddon earned the nickname “little professor.”

Despite his youthful willingness to test the patience of his elders, Giddon says, “I was an insecure kid.” It was later in high school that he overcame his shyness by taking up acting.

“I liked being on the stage, so together with my burgeoning scientific endeavors I thought becoming a professor was a natural fit.”

Giddon’s academic career began at Brown University where he earned his undergraduate degree in psychology and subsequently a master’s degree in psychology at Boston University. He began his PhD program at the University of Pennsylvania and completed it at Brandeis University, overlapping with his DMD training at HSDM completed in 1959. He had further training as an NIH-funded postdoctoral student in periodontology at HSDM and Massachusetts General Hospital (MGH).

While a graduate student in psychology, he worked as a statistician at Tufts School of Dental Medicine, where his career of combining psychology and dentistry began. Giddon credits his mentor, the famed psychologist Dr. Abraham Maslow, with convincing him to stay in dental school and pursue research that combined these two fields. His formal teaching activities began at age twenty-two as a graduate student at the University of Pennsylvania. He presented his first scientific paper at HSDM in 1954. His first academic position was at



He continues to complete manuscripts of earlier unpublished work with the help of his longtime assistant, Caroline Rains.

Dr. Giddon with facial profiles used in his research.

Teacher, donor, advocate

Prior to his career at Harvard, Giddon held positions of professor and chair of the Department of Social Dentistry at Tufts School of Dental Medicine. Following his appointment as HSDM professor and chair of Ecological Dentistry (a term he coined), he served as dean of New York University (NYU) College of Dentistry in the mid-seventies, while professor of anesthesiology at the

NYU School of Medicine and psychology in the Faculty of Arts and Sciences.

He holds the distinction of being one of only a few HSDM professors who have taught in the Faculty of Arts and Sciences at Harvard College and in the Harvard School of Public Health. He taught a freshman seminar at Harvard College and was named a Knowles Scholar there.

Giddon and his wife, Phoebe, have generously contributed to the School for many years. He was recognized by HSDM with the Distinguished Alumni Award in 1989, and was more recently honored by the creation of the Professor Donald B. Giddon, DMD, PhD, Behavioral Science Research Area Office and Conference Room in the School's Research and Education Building.

Throughout his career, and to this day, Giddon has advocated for dentists to expand their role to include aspects of primary care. He has drafted proposed legislation, written extensively on the topic, and lobbied for the introduction of oral physicians for more than 25 years.

"I have been privileged to be associated with Harvard, which has allowed me to identify and promote a large number of scientific and socially significant endeavors which I hope will continue to be of benefit to Harvard and society at large," he said.

Giddon, D. B. and V. F. Lisanti (1962). "Cholinesterase-like substance in the parotid saliva of normal and psychiatric patients." *Lancet* 1: 725-726.

Tufts, where he became an associate professor in the Department of Social Dentistry. The "little professor" was well on his way.

Paving new paths in research

Giddon's interest in the relationship between stress and disease led him to conduct some of the earliest research in the field. As both a medically- and dentally-trained psychologist, he explored physical and psychological responses to pain, including the effects of stress on the periodontal tissues in mice, and the ethno-cultural and personality factors affecting the response to pain. At age thirty-two he published an important paper in the *Lancet* (Giddon and Lisanti 1962) on pseudo-cholinesterase in the saliva of psychiatric patients. He also developed a fiberoptic method for studying the vasculature of the oral mucosa in relation to pain and oral disease. At Harvard he investigated the anthropomorphic bases of facial perception, where working with Dr. Nina Anderson, he oversaw numerous research studies of pre- and postdoctoral students. His signature achievement in this field was the development of a computer-animated imaging program that allowed candidates for orthodontic treatment to identify a range of acceptable changes in the soft-tissue facial profile.

Giddon has authored more than 150 articles, abstracts, reviews, and books on self-image, the psychophysiology of stress and disease, pain and facial deformity, and the physical bases of the perception of normal and dysmorphic facial and body appearance.

Checking Your Teeth and Your Vitals

Collaboration with Northeastern University School of Nursing brings primary care services into a dental care practice



Dean Donoff with nurse practitioner, Chantelle Marshall and Northeastern University nurse practitioner student Kelly Rampappa at a ribbon-cutting in the Teaching Practices clinic.

A \$1.2 million cooperative agreement from the Health Resources and Services Administration, U.S. Department of Health and Human Services, is funding an innovative new program and partnership between Harvard School of Dental Medicine and Northeastern University School of Nursing that focuses on serving the primary care and oral health care needs of Boston area patients and their families.

The three-year funded project supports the creation of an interprofessional collaborative practice model in which primary care services are integrated into a primary academic dental practice. The program, launched this February, gives Northeastern University nurse practitioner (NP) students and Harvard School of Dental Medicine (HSDM) students the opportunity to work side-by-side to provide comprehensive healthcare

services for patients in the Harvard Dental Center's Teaching Practices clinic.

The collaborative approach is intended to promote team-building, collaborative problem-solving, and care coordination; provide practice-based interprofessional educational experiences for dental and NP students; and demonstrate improvements in patient and population health outcomes for older adults with multiple, chronic conditions.

Nurse practitioner students take blood pressure readings, test blood sugar levels, ask patients about chronic conditions, and work with dental students to educate patients on how to improve their oral and overall health.

At a kickoff event held January 25, Massachusetts Senate Majority Leader Harriette L. Chandler, who serves as co-chair of the Commonwealth's Oral Health Caucus, commended what she called a "unique partnership" between the two academic institutions.

"I look forward to this innovative change as one of many we'll see in our healthcare workforce," Chandler said.

Goals of the project include increasing access to high quality, patient- and population-centered primary care for culturally diverse, vulnerable, and medically underserved communities; expanding the number of nurses with interprofessional collaborative practice (IPCP) competencies; advancing the state-of-the-science on interdisciplinary health teams; and evaluating the impact of team-based, IPCP models on improving health outcomes.

"We're excited to work in partnership with Harvard on this collaboration and we hope this initiative will serve as a national model for how the integration of advanced practice nursing and dentistry can help improve access to care for vulnerable and underserved patients and populations," said Dr. Maria C. Dolce, associate professor, Northeastern School of Nursing, and principal investigator for the project.

"Interprofessional demonstration projects such as the Nurse Practitioner-Dentist Model send this important message," said Dean Bruce Donoff quoting Louis Menand, "The key to reform of almost any kind in higher education lies not in the way that knowledge is produced. It lies in the way that the producers of knowledge are produced."

Smiles Abound at Annual Give Kids a Smile Event

On Saturday, February 6, the Harvard Dental Center's Teaching Practices were filled with small patients in neon sunglasses. Nearly 50 kids, ages one to seventeen, were there for free dental screenings as part of the annual Give Kids a Smile (GKAS) event. The sunglasses were for eye protection during their dental treatments, but they added an extra cool factor as well.

For some children it was their very first time in a dental chair. Knowing this, HSDM students created a fun atmosphere where kids had a chance to learn about positive oral health habits, participate in educational arts and crafts, and have their faces painted.

"It totally transforms dental care for the kids. It makes it a party," said Tracy Balboni from Roxbury who brought her two children Ava and Caleb.

Give Kids a Smile was organized by DMD students Mirissa Price, Sara Tejani and Chloe Wong. The students coordinated with Dental Center and HSDM staff Celia Chacon, Juana Colon, Yves De Jesus, Latisha Gunter, Latifa Halhoul, Susan St. Martin, Niulka Martinez, Sherry Wilson-Johnson, and others to make the event possible. They planned and promoted the event months in advance—creating flyers in several different languages, and reaching out to schools, churches, Head Start programs, and radio stations to spread the word within the communities surrounding HDSM.

"The majority of the patients that come to the event do not have a dental 'home,'" said Dr. Zameera Fida, DMD08, PD10, director of predoctoral pediatric dentistry. "We actually get a lot of patients who have either just moved to the country or state, so this is an excellent opportunity for us to provide oral health care for our local community."

Give Kids a Smile is also an opportunity for HSDM students, from first to fourth years, to get hands-on



HSDM students and patients at the Give Kids a Smile event.

experience working with young patients. Twenty-two HSDM students volunteered to work in the clinic or provide oral health education at the event.

"Everyone was so wonderful and kind," said Andrea Hatch, a parent who brought three children to GKAS. "None of the kids were scared. It's nice to know they were so well taken care of."

With one GKAS event under their belts, the organizers are already planning ahead for next year.

HSDM Student Entrepreneur Is a Finalist for the President's Challenge

Patel's innovative project, Memora Health, was chosen from more than 145 competing projects

Second-year DMD student Nisarg Patel, was recently selected as one of ten finalists in this year's President's Challenge. The Challenge, with a grand prize of \$100,000, aims to catalyze student-led ventures to solve some of the world's most critical problems. It provides Harvard students with an opportunity to take their ideas and turn them into startup businesses with the support of the University and the Harvard Innovation Lab (i-lab).

Patel's project, Memora Health, is a suite of population health communication and analytics technologies that focus on improving preventative health via mobile remote care management. One of the features is a dashboard that allows clinicians to manage a patient's medications, and set up automated texts to remind them when to take their pills.

Before coming to HSDM, Patel received undergraduate degrees in molecular bioscience and biotechnology, political science and international studies from Barrett, the Honors College at Arizona State University. He is a co-founder of startups that apply technology solutions to healthcare issues. He and his partners recently won the second annual Brigham and Women's Hospital Shark Tank competition with a prize of \$2,500 for Memora Health, as well as a pitch competition at the Harvard Business School's SPARK entrepreneurship conference.

On April 25, Patel will compete in the President's Challenge Demo Day at the Harvard i-lab, which will be followed by an announcement of the grand prize winner. Patel shared his insights on the competition:

HSDM: What are your thoughts on making it this far in the President's Challenge?

Nisarg Patel: I keep a folder of all the feedback—from patients, physicians, entrepreneurs, venture capitalists, and friends—that our team has received over the past year. When I drafted our proposal for the President's Challenge, the first thing I did was paste every single



Manav Sevak and Nisarg Patel, cofounders of Memora Health, at the Harvard Business School's SPARK entrepreneurship conference.

piece of feedback into the document and make sure we had strong answers to all of them. Knowing the caliber of the students here and the high-quality of their ventures, I understood that our proposal had to be as complete as possible and treated it the same way I'd treat an academic publication, with significant review, editing, and data that backed our claims.

Making it to the finalist stage has been a tremendous honor. It's both humbling and inspiring to be among the ten finalist teams this year and the challenge has only made our team more excited about where we can take Memora Health in the next few months.

I've found entrepreneurship to be both a creative and competitive outlet, and having this experience makes me think more deeply about how the basic science and clinical concepts we learn in class can be translated into applications to improve healthcare.

—Nisarg Patel

HSDM: If you win, how will you use the funding?

Nisarg Patel: We've reached out to many different types of practices, specialties, and use-cases, to see where we can provide the most value to our healthcare system and develop the ideal product-market fit. We'd utilize the funding to jumpstart additional clinical pilots to reach more patients and learn more about how we can best improve the quality of their care. We hope that our focus on building an accessible, lightweight platform for preventative healthcare delivery will allow us to eventually expand to developing countries, where we've seen a growing burden of chronic disease and trends in technology adoption that favor mobile phones as a medium for healthcare delivery.

HSDM: How do you balance your DMD studies and your work as an entrepreneur?

Nisarg Patel: I've found entrepreneurship to be both a creative and competitive outlet, and having this experience makes me think more deeply about how the basic science and clinical concepts we learn in class can be translated into applications to improve healthcare.

Balancing both hasn't been easy, but I've found that parts of my education and endeavors into healthcare entrepreneurship have been complementary. My Patient-Doctor 1 (PD1) course as a first-year was the inspiration for this venture.

Student's Research Takes Her to India

DMD student Hannah Yoo received a Harvard South Asia Institute (SAI) research grant that took her to India over winter session to conduct research on the oral and nutritional health of women and children in the slums of Mumbai. She worked with an organization based at UC Berkeley called India Smiles, a community-based program that utilizes education and prevention to improve the oral health and nutrition of children age 0-6 in the greater Mumbai and Tamil Nadu, areas of India.

Yoo participated in oral health camps and interviewed mothers about their knowledge of oral and nutritional health, socioeconomic status, and other protective factors. She also worked with children to conduct their oral health exams, apply fluoride varnish to their teeth, and provide them with free toothbrushes and toothpaste.

"Through this experience, I learned to practice cross-cultural compassionate care, learned about a broken health-care system, and gained an understanding of a complex yet beautiful country," Yoo said.

Yoo was astounded by the disparities in India and the lack of access to nutritional foods and clean water. She observed a high incidence of tooth decay, or "caries," in the children, including those who at the young age of 5 had over 10 caries and were significantly underweight.

"Overall, this experience dramatically changed the way I think about global health," she said. "I used to believe global health consisted of a methodological approach to providing health services and education to underserved people. But this project showed me that 'global health' is much more complex and requires the commitment and involvement of the people who understand the barriers to healthcare best: the local community. I am immensely grateful for the support of the Harvard South Asia Institute and the winter session research grant for this eye-opening experience."



Second-year student Hannah Yoo (right) with children at the Oral Health Camp in Powai.

Gordon and Ruth Macdonald Establish a \$2 Million Planned Gift to HSDM

Their generous gift will fund a professorship and further the HSDM mission well into the future



Mrs. Ruth and Dr. Gordon Macdonald.

When Dr. Gordon Macdonald talks about his days at the Harvard School of Dental Medicine he vividly and fondly recounts his time with Dr. Roy O. Greep. Greep served as dean of the School from 1952 to 1967.

“He was a very unique individual, a caring person, and father-figure to many of us,” Macdonald said.

Macdonald’s connection to Greep, would lead to a remarkable career, and a lifelong connection to HSDM. Macdonald first met the well-known endocrinologist at the University of Wisconsin-Madison as a postdoctoral student. In 1963, Greep invited Macdonald to join his research group at Harvard. The opportunity allowed Macdonald, a researcher in endocrinology and reproductive biology, to expand his academic career through associations with scientists of similar interests at Harvard and other institutions.

“My experience at Harvard set me up for a career in academics that I could only dream about,” Macdonald said.

Macdonald spent ten years at HSDM conducting research with Dean Greep and Dr. David Armstrong. He also taught anatomy and histology at Harvard Medical

School, and spent four years studying the reproductive biology of primates at the New England Regional Primate Center. In 1973, Macdonald left Harvard to become a professor at Rutgers Robert Wood Johnson Medical School. However, he would never forget his connection to Harvard and to his mentor, Dean Greep.

The Macdonalds have supported the work of HSDM for many years contributing to the Roy O. Greep Fund and others. Recently they decided to make a \$2,000,000 planned gift that will establish an assistant or associate professorship in their memory.

“My wife, Ruth and I believe in the Harvard School of Dental Medicine and its mission,” Macdonald said.

Macdonald credits Harvard with his ability to give a gift of this size. “At the age of 29 I had to start thinking about retirement, and the Harvard retirement plan started me on my way.” The financial success of their retirement funds enabled the Macdonalds to make the generous gift.

“We are truly grateful to have friends like the Macdonalds whose extraordinary generosity and vision demonstrates their commitment to the Harvard School of Dental Medicine and its future.”

— Dean Bruce Donoff

“The funding for this professorship ensures the School will continue to attract talented educators and researchers for many years to come,” said Donoff.

“Harvard is a unique institution that strives to be, and is among the best in the world,” said Macdonald. “Its scientific and medical program is supported by a strong financial business practice. We feel our gift will be managed well by this entity and our gift will perpetuate the Harvard School of Dental Medicine’s mission in its education and scientific adventure.”

Smart Giving Strategies

Planned Gifts

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- Only traditional IRAs and Roth IRAs are eligible.

To learn more about these opportunities, please contact Wanda Mock at 617-432-5356 or wanda_mock@hsdm.harvard.edu

Goldhaber Award Winner

Professor Teruko Takano-Yamamoto from Tohoku University Graduate School of Dentistry was chosen as the 2015 Goldhaber Award recipient. She was presented with the honor in a ceremony held on October 26. Her presentation, "Clinical and Translational Dental Research focused on Orthodontic Tooth Movement," highlighted areas of her research. Takano-Yamamoto was chosen for her research in bone deformation, the histological and molecular biological study of periodontal cells and bone cells, and many other contributions to the field. She is an accomplished professor and chairman in Orthodontics and Dentofacial Orthopedics, who has authored numerous publications.

The Goldhaber Award is presented annually to an individual of distinction who is held in the highest international esteem in his or her field relating to oral and systemic health and is current in making novel and innovative contributions to dental medicine, science, and patient care.



Professor Teruko Takano-Yamamoto with Mrs. Ethel Goldhaber, wife of late dean Paul Goldhaber, and their son Dr. Sam Goldhaber.

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ALUMNI NEWS

Robert Faiella, MMSc85 PD85 (Periodontology) was presented with the Clinician of the Year award at the 2016 Presidential Awards ceremony during the Yankee Dental Congress recently held in January.

William Giannobile, DMSc96, PD96 (Periodontology) was recently named to lead the newly formed Michigan Regenerative Medicine Resource Center, a think tank devoted to the development of clinical applications in tissue engineering and regenerative medicine. Dr. Giannobile is also the current Chair of the University of Michigan's School of Dentistry Department of Periodontics and Oral Medicine.

James Hupp, DMD77 with Professor Xinhua Liang, Head of Oral-Maxillofacial Surgery at the West China School of Stomatology.



James Hupp, DMD77 served as a Visiting Professor at West China School of Stomatology in December 2015. He presented Dr. Liang with two of his recent textbooks

and gave presentations at the Guanghua School and Hospital of Stomatology of the Sun Yat-sen University in Guangzhou, and to stomatology/surgery units in the cities of Shenzhen, Hangzhou and Shanghai.



Patricia McClory Nanda, DMD12 and Vikrum Nanda, DMD12.

Congratulations to **Patricia McClory Nanda, DMD12** and **Vikrum Nanda, DMD12** who were married on July 5th, 2015 in Patricia's hometown of Ketchikan, Alaska. They are now living happily ever after in Ventura County, CA where she is a pediatric dentist, and he's an orthodontist.



Congratulations to **Kevin Oh, DMD11** and **Mindy Gil, DMD11, DMSc15** on the birth of their son, Daniel Hyung-Min Oh on Friday September 5, 2015 at 12:08am. He weighed in at 7lb 1oz.

Steven Offenbacher, PD81 (Periodontology) was presented with the American Dental Associations Gold Medal Award for Dental Research during its annual meeting in November. This award is presented every three years to an ADA member whose basic or clinical research has helped to improve oral health for the public and has contributed to the advancement of the dental profession.

Cortino Sukotjo, MMSc05 has been honored with the American College of Prosthodontists (ACP) Clinician/Researcher Award. Dr. Sukotjo was honored at the Annual Awards & Presidents Dinner in Orlando last October. ACP formally recognizes individuals whose contributions to the specialty or to the College are outstanding and substantial.

In September, 2015, **Keisuke Wada, DMSc08** was named the Director of Graduate Programs in Periodontology and Oral Implantology as well as Associate Professor of Periodontics at the Temple University Kornberg School of Dentistry.



Stephen Yen, DMD85 at the National Museum of Stomatology in Chengu, China with a picture of his father Peter Yen, DMD54.

Stephen Yen, DMD85, an orthodontist at USC and Children's Hospital Los Angeles, recently visited the National Museum of Stomatology in Chengu, China where a picture of his father hangs on the first floor. He also visited West China College of Stomatology and the Chinese Orthodontic Society. The visit was particularly meaningful for Dr. Yen because his father, Peter Yen DMD54, graduated from West China and later enrolled as a dental student and orthodontic resident at HSDM before joining the orthodontic faculty. Dr. Yen's father subsequently was founder of the Orthodontic Department at Hong Kong University. He also wrote the first modern orthodontic textbook in Chinese.

HSDM AWARDS

Dean's Innovation Fund Recipients

The first four recipients of the inaugural HSDM Dean's Innovation Challenge were announced in March, 2016. The Dean's Innovation Fund awards up to \$25,000 of grant funding to HSDM faculty who propose innovative projects aimed at enhancing research, education or patient care.

Twenty-two applications were submitted and evaluated by Dean Bruce Donoff and six members of the School's faculty and staff. The following four projects were selected for funding:

Jason D. Lee, MMSc13—*Virtual Patient Project*—A proof-of-principle for the development of a 4D virtual patient model.

Lisa Simon, DMD14, PD15—*Preventative Periodontal Treatment*—To assess the feasibility and impact of providing periodontal treatment to hospitalized patients with diabetes.

Rosalyn Sulyanto, DMD11—*Human Oral Microbiome*—To investigate the acquisition of the human oral microbiome and examine the effect of minimally invasive caries treatments on the oral microbiome in children.

Alessandro Villa, PD13—*Mobile Health Application*—To evaluate an innovative, smart-phone-based application to optimize measurement of faculty guidance and dental student or resident autonomy, and articulate a common language with which faculty and residents can discuss criteria for success.

The IADR/AADR William J. Gies Award for Biological Research was recently presented to **Thomas E. Van Dyke**, lecturer on Oral Medicine, Infection, and Immunity, **Marcelo Freire, DMSc16 (Periodontology)**, and co-authors, Hatice Hasturk, Alpdogan Kantarci, Daniel Nguyen, Jesmond Dalli and Charles N. Sherhan for the paper "Proresolving Nanomedicines Activate Bone Regeneration in Periodontitis," *J Dent Res* 94: 148-156.

Mohamed Masoud, DMSc07 lecturer on Developmental Biology and clinical associate in the Faculty Group Practice received an Eleanor and Miles Shore Fellowship. The Shore Fellowship offers junior faculty at HSDM and HMS financial support during a critical time in their academic careers. Fellowships are assessed for academic promise and personal need.



Harvard Medical School Dean Jeffrey Flier presented the Shore Fellowship to Mohamed Masoud, DMSc07.

Individual Shore Fellowships generally provide \$30,000-\$50,000 of funding per year. Dr. Masoud has been working on developing the use of 3D photogrammetry for orthodontic diagnosis, and intends to use the fellowship to further these efforts.

HSDM NEWS

HSDM and University of Puerto Rico Endodontics Symposium

This winter, seven members of the Advanced Graduate Endodontics program traveled to San Juan, Puerto Rico to attend three days of seminars, lectures, and presentations with the pre- and postdoctoral students and their faculty at the University of Puerto Rico.



HSDM faculty with Dean Donoff at the American Dental Education Association (ADEA) annual meeting.

Dean Bruce Donoff, DMD67, MD73; Donald Giddon, DMD59, PD62; and Sang Park, MMSc01 presented "Shaping Tomorrow's Oral Physicians: Two Approaches to Curricular Reform-Chair Symposium" at the ADEA Chair of the Board of Directors Symposium in March, 2016. HSDM also had a large number of student poster presentations at the ADEA conference.

A new **Division of Bone and Mineral Research** has been formed in the Department of Oral Medicine, Infection and Immunity to better represent the academic activity of faculty members in the department who are engaged in basic and translational research. This new division includes, at inception, the following faculty: professors **Roland Baron** and **Beate Lanske**, assistant professors **Francesca Gori** and **Giuseppe Intini**, and instructor **Satya Kota**. In addition, the division will include all the students and postdoctoral fellows in the laboratories of these principal investigators.

Daniel Coleman and **Paul Levi**, clinical instructors at HSDM have collaborated, along with two faculty members of Tufts School of Dental Medicine on a new comprehensive handbook entitled "Non-Surgical Control of Periodontal Diseases." The handbook is designed for practicing dental clinicians and students, which includes dental hygienists, general dentists, periodontists, and students of dental hygiene and dentistry who are responsible for treating patients with a broad spectrum of periodontal diseases.

Hawazin Elani, MMSc15 joined the department of Restorative Dentistry and Biomaterial Sciences in July 2015 as an instructor.

Adam Hamilton joined the department of Restorative Dentistry and Biomaterial Sciences in January as a full-time faculty member for the advanced graduate implant dentistry program.

Jason D. Lee, MMSc13 joined the department of Restorative Dentistry and Biomaterial Sciences in September 2015 as an instructor.

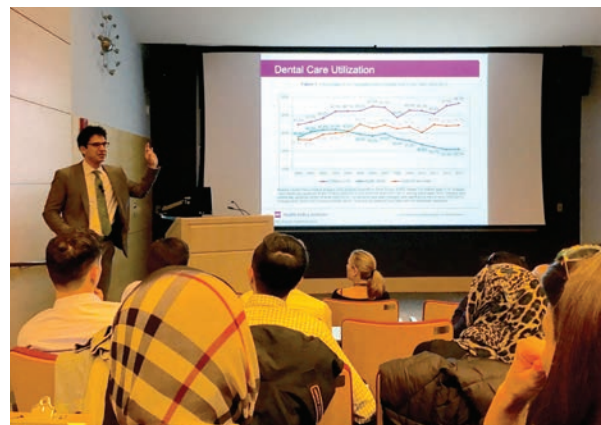
Naveh Gili was recently appointed to instructor in the department of Developmental Biology.

Armando Pardo, DMD15 returned to HSDM to become a senior tutor and instructor in Restorative Dentistry and Biomaterials.

Christine Riedy, the Delta Dental of Massachusetts Associate Professor of Oral Health Policy and Epidemiology (OHPE) has been appointed interim chair of OHPE.

Mary Tavares, PD90 was elected Vice-Chair of the ADA Commission for Continuing Education Provider Recognition (CCERP). She has been a member of that group since 2012, representing the specialty organization of Dental Public Health.

Maria J. Troulis was named the chief of the MGH Department of Oral and Maxillofacial Surgery (OMFS) in August 2015. She also serves as Walter C. Guralnick Professor and chair of Oral and Maxillofacial Surgery at Harvard School of Dental Medicine (HSDM).



Marko Vujicic, Managing Vice President of the American Dental Association's Health Policy Resources Center was the presenter at the annual Donald B. Giddon Lecture in Behavioral Medicine and Dentistry on April 5, 2016.

HSDM welcomes new staff members:

Courtney Anderson, IT Support Associate

Elizabeth Anderson, DMD Admissions Coordinator

Isabelle Bourdonne, Registrar

Heather Cappello, Development Coordinator

Justin Lefler, IT Support Services Manager

Natalie McKennerney, Staff Assistant III

Kathryn Matt, AGE Coordinator

Rebecca Rose Santiago, Patient Services Liaison

Benjamin Sternbaum, Staff Assistant III

Claire Catharina Van Strien, Research Assistant II

John Vo, Dental Hygienist

Upcoming Events

Thursday, May 26

Commencement and Class Day



Friday, June 3

Alumni Day

HSDM Research and Education Building

Registration required:

hsdm.harvard.edu/hsdm-alumni-day

8:30am

Check-In and Continental Breakfast

9:30am – 10:00am

HDAA Business Meeting:

Presentation of Distinguished Alumni Awards

10:15am – 11:45am

A Tribute to Dr. Walter Guralnick, DMD41

Noon – 12:30pm

HSDM State of the School Address, Dean Donoff

12:30pm – 2:00pm

Reception in honor of Dr. Walter Guralnick

Friday, June 10

1:00pm – 5:30pm

Symposium on Rwanda Human Resources for Health Program

A Success Story of a True Partnership: Symposium on Rwanda Human Resources for Health Program

Gordon Hall 106, Waterhouse Faculty Room

Monday, June 13 – Wednesday, June 15

Continuing Education: Multidisciplinary Approach for Implant Patients

Harvard School of Dental Medicine

Monday, October 24 – Thursday, October 27

Continuing Education: Osteology Research Academy

Harvard School of Dental Medicine

Monday, October 31 – Tuesday, November 1

HSDM Initiative to Integrate Oral Health and Medicine: Leadership Forum

Joseph B. Martin Conference Center at Harvard Medical School

See a full list of events at:

hsdm.harvard.edu/calendar

HSDM Alumni

Share your news with *Harvard Dental Bulletin*! Send submissions to bulletin@hsdm.harvard.edu.



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Join us for a tribute to
Dr. Walter Guralnick, DMD41

ALUMNI DAY 2016

Friday, June 3, 2016

REGISTRATION IS OPEN!

Visit hsdm.harvard.edu/hsdm-alumni-day to register and for more information.

