

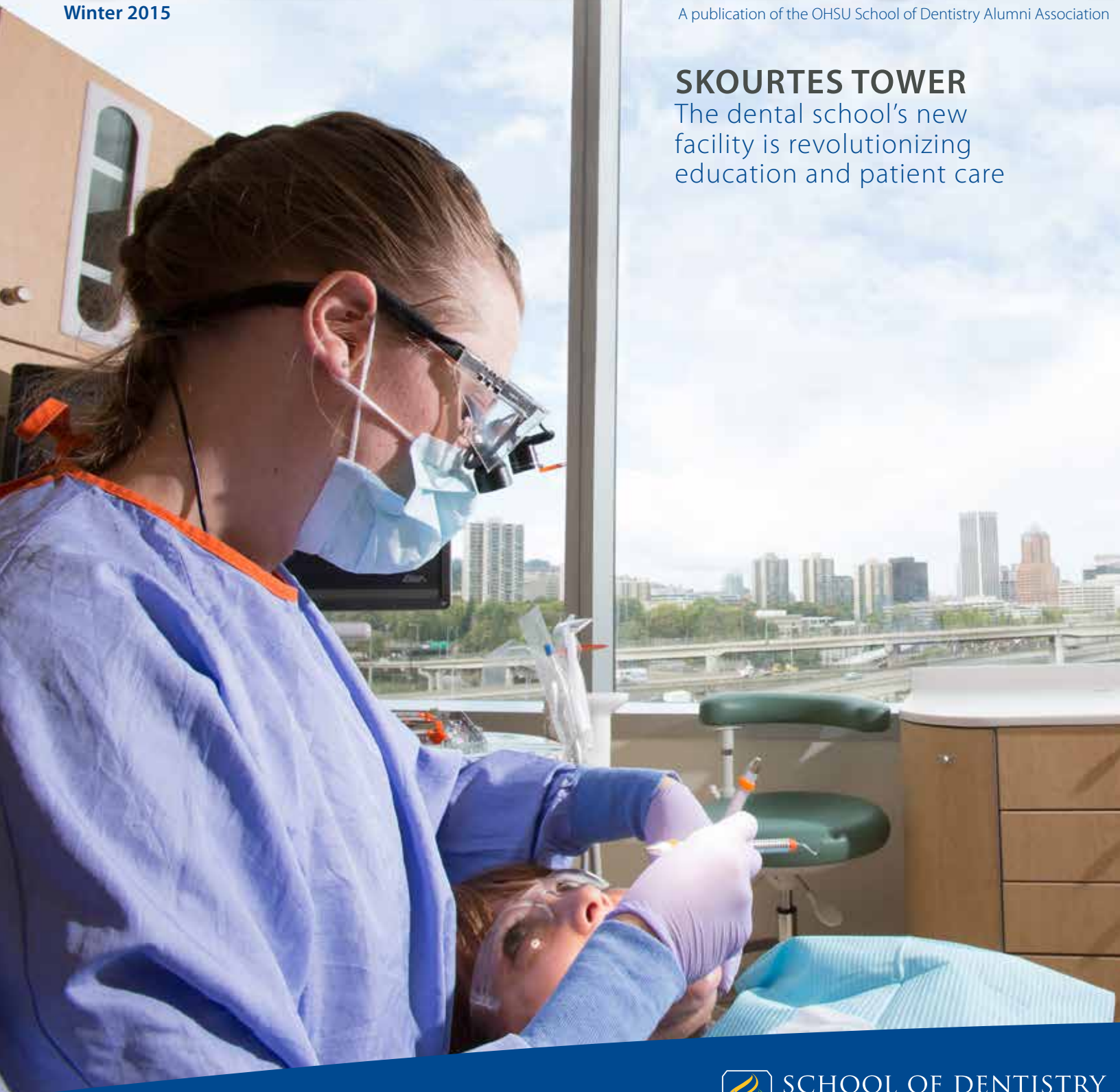
CAEMENTUM

Winter 2015

A publication of the OHSU School of Dentistry Alumni Association

SKOURTES TOWER

The dental school's new facility is revolutionizing education and patient care



SCHOOL OF DENTISTRY
ALUMNI ASSOCIATION
Oregon Health & Science University

Winter 2015

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Fax: (503) 552-0671

1121 SW Salmon Street, Suite 100

Portland, OR 97205

alumni@ohsu.edu

www.ohsu.edu/sod/alumni

Caementum is published twice annually for the alumni, faculty, students and friends of the OHSU School of Dentistry. If you would like more information about Alumni Association development programs, class news, or would like additional copies of *Caementum*, please contact the Alumni Relations and Educational Development program.

State of the School

What a huge year of transition for the dental school with a new facility! Despite the many changes that come with a move to a new "home," I am pleased to report that there have also been a number of other accomplishments this year, particularly in the areas of technology, faculty, research, curriculum, and leadership.

I still can't believe we started moving June 26, and that our clinics were functional within two weeks, on July 7. The move was ahead of schedule, and we were well-prepared, in large part due to our amazing staff, faculty, and university partners in Facilities and Logistics who went above and beyond the call of duty in organizing our telephones, mail, keys, copiers, parking, and the move, always with a smile on their face. Now, we are fine-tuning our operations to fit the new building — such as centralization of sterilization, bigger simulation labs, a new D.M.D./Ph.D. program, and state-of-the art technologies (see page three) — and we are making good progress.

New technologies include CAD/CAM (a recent gift from Sirona Dental), a cone beam scanner (gifted from Carestream Dental), dedicated endodontology microscopes, and electrical hand pieces (from A-dec and partner/affiliate W&H). This kind of technology will not only teach students to be great contemporary dentists, but provide them with the information they need to be dentists of the future.

To increase student opportunities in research, and mentorship on the pre-doctoral clinic floor, the school has been steadily rebuilding its faculty ranks. To that end, 12 new faculty have joined the school at .5 FTE or more, with additional faculty in the works (see pages 14 and 15).

Research funding is also on the upswing, despite the tough climate in which to gain grants. Two years ago, it was looking grim for dental school research, and we were on a downward trajectory. But we have made a remarkable comeback, with a number of new grants coming in, labs funded, and increased applications going out the door. This is a real achievement, given the limited dollars out there available for research programs.

Another way to build and maintain the school's research community has been through the Dean's Seminar Series, which kicked off this fall for its second academic year (see page 13). Alumni and the dental community are more than welcome at these lectures; please stay tuned to the web (www.ohsu.edu/sod) for upcoming seminar dates in our new facility.

Helpful to the dental school mission is that our faculty are very active within the university, such as the Interprofessional Initiative (see page seven).

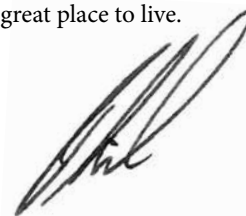
The dental school is also at the table for the university's Rural Health Initiative, which aims to improve access to care in Oregon's rural counties. We have 96,000 square miles of land in Oregon, but most people live along the I-5 corridor. There are a lot of people living in rural Oregon with little access to dental care. Three counties don't have a dentist at all. How do we get new health graduates to go out and function in those areas, and how do they gain the cultural skills needed to work and live in those communities?

The plan is for OHSU rural campuses to be located in rural portions of Oregon where people have little access to dental care, likely Klamath Falls, Coos Bay, and either Hermiston or Baker City. The idea is that all dental students will spend time at one of these three interprofessional practice sites, collaborating with their fellow OHSU students and caring for the underserved, with the goal for them to gain the cultural skills needed so they may decide to work and live in those communities after graduation.

We already have legislative support with the Rural Health Initiative in the form of student tuition, with three dental students receiving full tuition support this academic year in return for work in rural communities upon graduation.

What's coming up next for the dental school? Continued adaptation to the new facility and advancements in curriculum, additional research strengthening, the addition of a faculty development program, a new D.M.D./Ph.D. program (see page six) and planning for the school's five-year accreditation, with a visit scheduled October 18-20, 2016.

We are in good shape. As we move into 2015, I would like OHSU School of Dentistry to continue to be known for its education and research ... within a state that we all know is a great place to live.



Phillip T. Marucha, D.M.D., Ph.D.



Our New Address:
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FEATURE



Curricula, Research, and Patient Care Flourish in Modern Skourtes Tower

State-of-the-art technologies, as well as the synergistic layout of Skourtes Tower within the OHSU/OUS Collaborative Life Sciences Building, are ushering in revolutionary ways of learning, research, and patient care at OHSU School of Dentistry (www.ohsu.edu/sod). From the dental school's new central sterilization department to interprofessional education to CAD/CAM and endodontology microscopes, the changes occurring in the new facility are broadening the school's offerings to dental students, patients, and the dental community. Please call (503) 552-0745 to arrange for a tour.



Third-year dental student Peter L. Wagner (left) and fourth-year dental student Lauryn Marks use the new Global microscope in the pre-doctoral endodontology clinic for patient care. (Photo Sydney Clevenger)

ENDODONTIC MICROSCOPES SET OHSU APART

OHSU School of Dentistry is believed to be the first dental school in the nation to have dedicated, state-of-the-art microscopes in its pre-doctoral endodontology clinic.

“With the move to Skourtes Tower in July, we purchased six new Global six-step, ceiling-mounted surgical microscopes with LED light sources, one for each operator,” said **Brian Whitten**, D.D.S., assistant professor and director of OHSU’s pre-doctoral endodontology program. “Having dedicated scopes chairside enables us to do the impossible, like finding small canals and other anatomy, and patients can stay right in their chairs for radiographs.”

With the majority of endodontology offices having dedicated scopes, dental student education also has improved.

“We can now provide a state-of-the-art experience for students with the equipment we have in our own offices,” said **Paul Brent**, D.D.S., Endodontology ’98, assistant professor of endodontology, who practices in Aloha, Ore. “The light source in particular is incredible.”

New Instrument Management System at Nearly Full Capacity

OHSU School of Dentistry's first school-owned instrument management system commenced six months ago in Skourtes Tower, and is now running at nearly full capacity.

"We started processing instruments for the specialty clinics in July, and have been beefing up our staff since then to provide instruments to all of our clinics," said **Karla Kent**, Ph.D., director of quality improvement and professor of integrative biosciences. "As the clinics have gotten busier, we have refined our processes, and are almost running at full capacity."



Sterile Processing Technician II Rick Atencio stands on the "decon" side of central sterilization next to one of the three washers that cleans and disinfects instruments before sterilization. With the move to Skourtes Tower, the OHSU School of Dentistry has assumed the ownership and management of all instruments and devices necessary to patient care. (Photo Sydney Clevenger)

For the past 114 years, dental students have been carting and maintaining their own required purchase "issue" from the lab to clinic to lockers and back. (See story in the April 2013 *Dental Bites*, www.ohsu.edu/sod). In preparation for the school's re-location to South Waterfront, the school this year moved away from the student issue, assuming ownership and management of the necessary instruments and devices needed for patient care.

"It was an interesting process to figure out how many instruments and disposables were needed!" said Dean **Phillip Marucha**, D.M.D., Ph.D.

Dental students now have a Clinic Infrastructure Assessment (CIA), a fee for the cleaning, packaging, and storage of the equipment needed to provide patient care, including sterilized instruments, articulators, surveyors, waxing, casting, and mixing articles.

"I really like the new system because it cuts down on the time spent cleaning the instruments of debris, waiting for the ultrasonic to finish, packaging it all up, and oiling the hand pieces," said fourth-year dental student **Hieu Pham**. "With so many things to do at once after a stressful procedure or a tiring day in clinic, I'm able to spray down the instruments and hand them in."

The school's new central sterilization team is on the fifth floor of Skourtes Tower. Dirty instruments are carted from the various clinic floors to the "decontamination" side of the facility and placed into one of three Belimed washer-disinfectors. The washer-disinfectors have a soaking, penetrating wash process that delivers water and detergent to all surfaces, ensuring that instruments are consistently and thoroughly cleaned and dried in 30 minutes, said Dr. Kent.

"This process eliminates or reduces the need for other forms of mechanical washing, such as manual or



Fourth-year dental student Hieu Pham (right), with patient Dottie Havlik in the pre-doctoral clinic, appreciates the increased caregiving time that comes with having school-owned instruments and devices. (Photo Sydney Clevenger)



ultrasonic cleaning, minimizing exposure risk during decontamination,” she said. “A thermal rinse cycle that achieves an A0 disinfection of 3000 is effective on heat-resistant viruses, thereby ensuring the safety of sterile processing technicians during inspection and packaging. And a lubrication cycle adds corrosion inhibitors that protect metal instruments while not interfering with steam sterilization.”

A typical load in each washer-disinfector, she said, contains about 26 medium and large instrument cassettes.

Sterile processing technicians unpack the racks of sterilized instruments, and then sit at tables and begin the process of inspection and packaging. After packaging, the instruments go into one of three steam sterilizers, which are ergonomically-designed to prevent back strain and repetitive motion, and technologically-designed to reduce water consumption. A typical load in a steam sterilizer contains about 36 medium and large instrument cassettes.

“All of the washer-disinfectors and sterilizers are designed to minimize the use of resources,” said Dr. Kent, “meeting requirements for LEED (Leadership in Energy and Environmental Design) credits, while maximizing safety and efficacy for patients and staff.”

It is estimated that 10,000 to 20,000 instruments are processed each day. The sterilizers run continuously, processing 300 to 400 cassettes, and hundreds of single instruments each day.

“We are open five days a week, 14 hours a day, and occasionally on weekends when there is a continuing education course or WREB (Western Regional Examining Board) exam, so we have to process quickly and efficiently,” said Dr. Kent. “This is a hard-working team and one in which I’m proud to be a part.”

DENTAL SCHOOL AHEAD OF THE CURVE IN CAD/CAM

OHSU School of Dentistry is ramping up its CAD/CAM curriculum with the purchase of state-of-the-art Omnicams and a lab grade milling unit, along with the donation of 29 blue cameras and 10 chairside milling units from Sirona Dental (see page 10). The gift will enable the school to more efficiently teach digital imaging, restoration design on software, and milling of ceramic restorations to dental students.

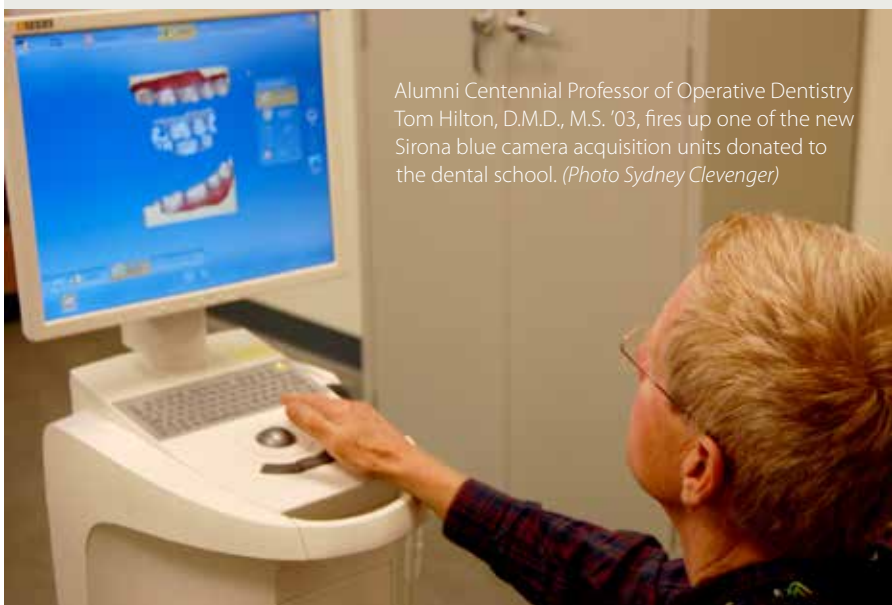
“This generous donation will put OHSU ahead of the curve in terms of dental schools teaching CAD/CAM in the country,” said **Thomas Hilton**, D.M.D., M.S. ’03, alumni centennial professor of operative dentistry, who coordinates the school’s CAD/CAM program. “The gift will enable us now to have one blue camera acquisition unit for every two students in the pre-clinic, and one Omnicam on each pre-doctoral clinic floor (as well as two Omnicams for continuing education and the Faculty Dental Practice), which will boost the timeliness of patient care.

“It is so important for today’s dentists to be at the forefront of CAD/CAM technology,” he said.

CAD/CAM (computer-aided design/computer-aided manufacturing) has increasingly been incorporated into dentistry in the past 20 years. CAD/CAM technology is used by dentists to provide patients with milled crowns, veneers, onlays, inlays, bridges, and abutments for dental implants used to replace missing teeth.

Most dentists in private practice today are using CAD/CAM (even though they may not have a chairside digital imaging or milling unit) because laboratories use the technology to fabricate restorations, such as zirconia crowns and bridges that most dentists incorporate in their patient care, said Dr. Hilton. “It is essential that new dental graduates at least know how to take digital impressions,” he said.

“This is the direction restorative dentistry is headed, and we intend to be leading the way in CAD/CAM dental education.”



Alumni Centennial Professor of Operative Dentistry Tom Hilton, D.M.D., M.S. '03, fires up one of the new Sirona blue camera acquisition units donated to the dental school. (Photo Sydney Clevenger)



OHSU School of Dentistry's new three-dimensional cone beam scanner is on the twelfth floor of Skourtes Tower. (Photo Sydney Clevenger)

Her return to the Northwest this August was a homecoming of sorts. “Who doesn’t like a new building?!” asked Dr. Gonzalez. “I was excited to get back to this area and to OHSU.

“This new facility is an adventure in technology and I like that the school administration is encouraging and incorporating the latest technologies into its curriculum.”

Boosting dental students radiographic interpretation skills is a goal of Dr. Gonzalez and she is incorporating those skills into her courses.

“The new technology is so versatile and we can do so much more for patients with a wide range of dental problems,” she said. “We are just beginning to achieve our potential at the school with the cone beam.”

NEWER 3D SCANNER ADDS TO RADIOLOGY OFFERINGS

A three-dimensional cone beam scanner recently was added to OHSU School of Dentistry’s arsenal of radiology tools, expanding offerings for dental faculty, students, and patients, as well as private practice dentists.

“Our new machine offers variable image sizing, single quadrant imaging, increased resolution, and less radiation for patients,” said **Shawneen M Gonzalez**, D.D.S., M.S., director of radiology. “We can identify a range of dental issues from missed root canals, bony lesions, difficult-to-extract teeth, bone quantity for implants, cleft palates, impacted teeth, and much more.

“The functionality of the cone beam is really exciting,” she said, “and goes way beyond what we’ve been able to do in the past.” Particularly exciting, said Dr. Gonzalez, is the cone beam’s ability to take panoramic and lateral cephalometric skull radiographs.

The new cone beam scanner — the Carestream 9300 — was generously donated to the School by Carestream Dental (see story, page 10).

For their 3-D scan, patients are seated and their head stabilized to ensure only one scan is necessary. After a pre-shot, or scout view, the scan takes from eight to 20 seconds, said Dr. Gonzalez, compared to the older three-dimensional scans which take at least 20 seconds, increasing radiation exposure. The computer then performs a reconstruction of the scan, which takes less than 10 minutes.

Because few private practices in Oregon have three-dimensional cone beam scanners, OHSU School of Dentistry is accepting referrals from dentists in Oregon and southwest Washington. Dr. Gonzalez is currently the only board certified and licensed oral radiologist in the state, and she reads and interprets all of the radiographs from the cone beam.

“We can see private dentists’ patients here on the twelfth floor of Skourtes Tower, or we can read three-dimensional scans that dentists send of their patients,” said Dr. Gonzalez. For information on how to access the cone beam scanner, please call (503) 494-8930.

OHSU radiology staff also wear Vocera pagers for when they are needed on the pre-doctoral clinics floors for patient care.

Dr. Gonzalez grew up in Vancouver, Wash., and completed two years of undergraduate study at Portland State University. She received her doctor of dental surgery from the University of Washington, a master’s degree in stomatology from the University of Iowa Graduate College, and a certificate of oral and maxillofacial radiology from the University of Iowa College of Dentistry. Most recently, she has been assistant professor of oral and maxillofacial radiology, directing the Oral and Maxillofacial Radiology Clinic at the University of Nebraska Medical Center College of Dentistry.

NEW D.M.D./PH.D. PROGRAM FOR STUDENTS

OHSU School of Dentistry is now offering a D.M.D./Ph.D. program for dental students. The program will prepare dental students for careers as clinician/scientists and advance the field of dentistry by developing individuals who can translate research into clinical practice.

“It was a goal to start a D.M.D./Ph.D. program at OHSU,” said Dean **Phillip Marucha**, D.M.D., Ph.D., who established such programs at The Ohio State University and the University of Illinois at Chicago (UIC). “Though we were intending to wait a little longer to initiate one, an unexpected request this fall from a first-year dental student for a D.M.D./Ph.D. program, as well as the addition of staff to develop such a program, have accelerated our plans. We are pleased that we have several students now with interest in the D.M.D./Ph.D. program.

“Research is integral to clinical training, and will become more so in the future,” he said. “Now feels like the right time to move forward.”

The D.M.D./Ph.D. will be a seven-year program, with students completing the requirements for a Ph.D. in bioengineering offered by OHSU’s School of Medicine. Students will conduct research projects relevant to oral health practice, but will also integrate into activities with students enrolled in OHSU’s M.D./Ph.D. program.

Katherine Long, M.Ed., M.B.A., joined the school in September as graduate education program manager, and is coordinating the D.M.D./Ph.D. program. Most recently, Katherine managed the dual program at UIC.

Mateusz Wietecha, a D.M.D. and Ph.D. candidate at UIC, recently spoke to OHSU dental students about the clinician/scientist program in which he has been enrolled for the past 6 ½ years.

“It’s a very competitive program, so it has been a long road, but I have learned a lot,” said Mat. “I’ve been able to integrate the clinical training into my research, and dentistry and my research have been very complementary. I think the experience at OHSU will be similar.”

Dental students interested in the D.M.D./Ph.D. program may call Katherine at (503) 346-4774, or email lonka@ohsu.edu.

IPE Transforming Education by Boosting Collaboration



Tom Peters

When **Tom Peters** was eyeing dental schools, he was struck by the interprofessional education (IPE) focus at OHSU. “Other schools where I interviewed seemed to keep the health professions separate, to let us learn how to work with other professions once we were out and practicing,” said the first-year dental student, a Dickinson, North Dakota native, who received a bachelor of science in zoology/animal biology from North Dakota State University. “I feel like it is essential now to develop a basic understanding of the ways we may have to interact with each other on a patient-by-patient scenario.”

Helping health care professionals learn early on how to collaborate for increased patient satisfaction, safety, and efficiency is a growing trend nationally, and one of the goals of OHSU’s Interprofessional Initiative, developed in 2012.

“Once I am out practicing I will look at patients from a different perspective, of not only trying to diagnose dental issues, but looking for larger issues that may impede their health.”

– DS1 Tom Peters

Last year, the university embedded IPE content within established courses for each school. (**Jeffery Stewart**, D.D.S., M.S., associate professor and interim chair of pathology and radiology, is chair of OHSU’s Interprofessional Initiative Steering Committee). However, for the 2014 academic year, the IPE course “Foundations,” became a distinct one-credit course for the 530 first-year OHSU dental, medicine, nursing, pharmacy, physician assistant, nutrition, medical physics, and radiation therapy students.

The Foundations course will meet three times over the academic year, with students divided into small groups and guided by interprofessional faculty facilitators.

“Our group includes two students from dentistry, three from nursing, three from medicine, two from pharmacy, one from radiology, and one from the physician assistant program,” said **Phyllis Beemsterboer**, M.S., Ed.D., associate dean for academic affairs. “At our first session, we got to know one another and talked about the role and responsibilities of each profession. We spoke about teamwork, communication, ethics, and collaborative practice to improve the quality and safety of patient care.

“Then, our group split into two groups to work on patient cases, summarizing the scope of medical errors and preventable harm, identifying ways to improve patient safety, and how

contributions from each discipline can improve patient care,” said Dr. Beemsterboer. “Each group then presented its case to the larger group.

“The conversations were lively, and the students involved,” she said. “It was a very enjoyable afternoon, and an important first step in dentistry becoming more integrated into the overall healthcare of our patients.”

Students received a pass/no pass grade for their participation in the Oct. 3 course. Until the next IPE class in early January, students are to self-pace on multiple assignments for which they will also be graded.

“I learned that many dental issues transcribe on a larger scale beyond our own reach,” said Tom. “We may be the first to notice an issue on the patient, and could be the critical step in a larger process of restoring their health with the help of other health professionals. Once I am out practicing I will look at patients from a different perspective, of not only trying to diagnose dental issues, but looking for larger issues that may impede their health.

“I knew before attending dental school here at OHSU that it was important to collaborate with other health professions for the well-being of our patients,” said Tom. “However, through the IPE courses we have taken, I have noticed that I completely undermined just how important it is to associate with the other health professions.

“IPE has been a great educational experience, as well as a quality way to meet students in different disciplines.”



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State-of-the-Art Simulation Clinic Expands, More Equipment Available

The simulation clinic on the 10th floor of OHSU School of Dentistry's Skourtes Tower — the place where about one-fourth of OHSU dental education occurs — is receiving rave reviews for its spaciousness, new technology, and convenient instructor station with a dedicated patient chair. The simulation clinic includes 76 learning “stations” for first- and second-year dental students to practice dentistry on a mannequin head using the same posture and techniques that they would on a patient.

“The facility is beautiful,” said **Michael Taylor**, D.M.D., assistant professor of restorative dentistry and director of the dental implant program and simulation labs. “Our wet and dry labs are about five times the previous square footage, and we have significantly more equipment, like microscopes and mixers.

“There are so many positives to this space, but I think the dental students’ favorite aspect is the central vacuum system, which has improved time management considerably!”

Dr. Taylor said the new simulation clinic has 15 new microscopes, 15 laboratory hand pieces gifted from Brasseler USA, eight new lathes, eight model grinders, two steamers, and eight vacuum mixers.

The instructor station is centralized, in the middle of the simulation clinic, for easy access to faculty. There is a dedicated dental chair next to the instructor station that can be used for work on mannequin heads, or real patients, and the chair has video capability so “examinations” can be recorded and then used for training.

Each of the 76 student stations has its own computer with which to access educational materials, such as Sakai, where coursework and resources are located.

“This has been a nice feature for dental students who do not have an iPad, or don’t want to bring their own technology to the school,” said Dr. Taylor.

The learning stations in the simulation clinic are used for the first-, second-, and third-year dental courses, as well as continuing education courses for faculty and alumni.

“We are enjoying the lay-out of our new space,” said Dr. Taylor.



ABOVE: Third-year dental student Joseph Knight works in the simulation clinic, in October. (Photo Sydney Clevenger)

BELOW: Second-year dental students in a simulation clinic lecture in August. (Photo Sydney Clevenger)



ENDODONTISTS ENJOYING WAVEONE

A new file system in OHSU School of Dentistry’s endodontology clinics is receiving rave reviews from faculty. The WaveOne reciprocating system was introduced into the school’s lab course last winter, in anticipation of the move to South Waterfront, and is now an integral part of the endodontology clinics in the Skourtes Tower.

“The file is inserted into the hand piece and makes a back-and-forth motion, rather than a circular motion,” said **Brian Whitten**, D.D.S., assistant professor and pre-doctoral endodontology program director. “We are super impressed with the results so far.”

The WaveOne file systems were provided in part through a grant from DENTSPLY.

Endodontists say they appreciate the ability to shape root canals using only one file, decrease the amount of shaping time, increased file stability, and the boost to patient safety.



Michael Taylor, D.M.D., assistant professor of restorative dentistry and director of the dental implant program and simulation labs, talks to dental students in the new Skourtes Tower simulation clinic. (Photo Sydney Clevenger)

Alum Creates Charitable Trust for Dental School

Michael Goger, D.M.D. '70, Albany, Ore., knew by seventh grade that he wanted to become a dentist. Now, he and wife, **Suzann**, are giving back to the OHSU School of Dentistry through a charitable remainder trust. The Gogers' trust was funded with the building and property that held Dr. Goger's longtime practice.

"Our estate plan has always included the dental school, and we found that a charitable remainder trust in favor of OHSU School of Dentistry would be the vehicle to carry out our wishes," said Dr. Goger. "The dental school and my dental

education gave me the knowledge and skills to enjoy the practice of dentistry for more than 35 years, and now we want to give back to the future of the dental school."

Dr. Goger remembers several faculty who affected his education positively, specifically Dean Emeritus **Jack Clinton**, D.M.D. '64, Clinical Assistant in Dentistry **Gerald Klein**, D.M.D. '67, and Affiliate Assistant Professor of Pediatric Dentistry **Alan Pike**, D.D.S.

Dr. Goger was born in Portland and moved to The Dalles in fifth grade, graduating from high school there in 1962. He attended Lewis & Clark College for one year and then transferred to Oregon State University, receiving a bachelor of science in biological sciences in 1966. Dr. Goger's family dentist in The Dalles had shown him much about dentistry and Dr. Goger said he "set his sights on dentistry then and never wavered."

After dental school graduation in 1970, Dr. Goger entered private practice in Albany. Longtime patient **Jeff Carl**, D.M.D. '96, later joined him as an associate, purchasing the practice in 2000. Dr. Goger continued to work for Dr. Carl for five years and retired in 2005.

Since then, Dr. Goger has been on the board of The Dental Foundation of Oregon, helping to found the Tooth Taxi. He was a longtime member of the ODS Companies (now Moda Health) board of directors. Four years ago, Dr. Goger was instrumental in helping found and build a dental clinic for underserved children at the Albany Boys and Girls Club, where he still volunteers often and serves as the dental director. He and Suzann also enjoy family, golf, and travel, most recently to South Africa.

"If I had to choose my career all over, I'd select dentistry again!" said Dr. Goger.



Suzann and Mike, D.M.D. '70, Goger in Albany, Ore., summer of 2014.

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Dental School Grateful for Gifts to New Building

OHSU School of Dentistry has recently received a number of new gifts for education, research, and patient care in its new Skourtes Tower, located in the OHSU/OUS Collaborative Life Sciences Building on Portland's South Waterfront.

CS 9300 CONE BEAM SCANNER

The OHSU School of Dentistry Radiology Clinic is now named for Carestream Dental, with the recent donation of a CS 9300 cone beam scanner. The \$220,000 cone beam scanner can take three-dimensional imprints of a patient's mouth. With the addition of **Shawneen Gonzalez**, D.D.S., M.S., director of radiology (see page 14) who has extensive experience in reading cone beam scans, this new diagnostic imaging technology will be particularly useful in training dental students and residents, and become a resource for dental offices throughout Oregon.

CAD/CAM BOOST

OHSU School of Dentistry is participating in the CEREC Gifting Program offered by Sirona Dental, Inc. The school will receive a donation of 29 refurbished CEREC Acquisition Centers powered by Blue Cam, and 10 refurbished milling units, said **Thomas Hilton**, D.M.D., M.S. '03, alumni centennial professor of operative dentistry. "With advances in dental technology, and our move to a new facility, now is the right time to bring more CAD/CAM training into our dental clinics," said Dr. Hilton. (See page five for story).

SIMULATION CLINIC'S WET AND DRY LABS

In memory of **Karl Luksch** and **Mike O'Brien**, O'Brien Dental Lab recently pledged \$250,000 over five years to the wet and dry dental laboratories in OHSU School of Dentistry's simulation clinic. The labs are on the 10th floor of the Skourtes Tower and support the pre-doctoral clinic by providing state-of-the-art space for dental students to practice their lab work.

ORTHODONTICS CLINIC

Knowing husband **Thom Rosenbarger**, D.D.S., Orthodontics '76, loved viewing Mt. Hood, **LeeAnn Peniche-Rosenbarger**, president of Peniche & Associates Orthodontic Consulting Firm in Portland, Ore., recently initiated a tour of OHSU School of Dentistry's new Orthodontics Clinic on the 12th floor of Skourtes Tower. After the tour, the couple pledged \$75,000 to name two chairs in the clinic. The two chairs selected by the Rosenbargers are right next to each other and face east toward the mountain and the new Tillikum Crossing, *Bridge of the People*.

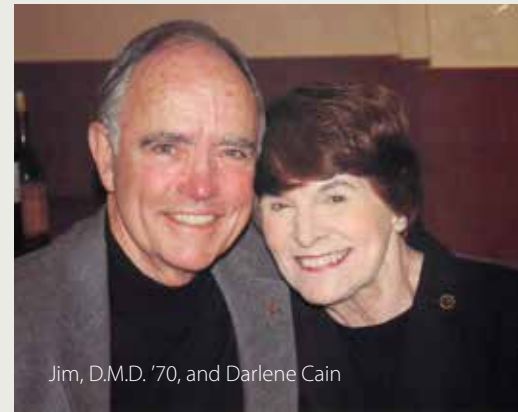


Thom, D.D.S., and LeeAnn Peniche-Rosenbarger

EIGHTH FLOOR OPERATORY

Jim, D.M.D. '70, and **Darlene Cain**, Gaston, Ore., recently pledged \$50,000 to name an open operatory (number 20 in the Broadway group practice) on the eighth floor of Skourtes Tower.

"Through the years, we have been grateful recipients of excellent medical care from many departments of OHSU and have felt very confident in recommending friends, relatives, and patients to the university to solve some very difficult health challenges," said Dr. Cain. "I have loved the practice of dentistry, and am forever grateful for the training received, which allowed me to be part of a great, caring profession, and also for being there through my career as a continuing source of knowledge and information."



Jim, D.M.D. '70, and Darlene Cain

EIGHTH FLOOR OPERATORIES

Paul J., D.M.D. '87, and **Vicki Bonar**, D.M.D. '87, Salem, Ore., recently pledged \$75,000 to name two operatories on the pre-doctoral clinic floor, numbers 62 and 63 in the Hawthorne group practice. "We have been blessed (*To whom much is given, much is required. Luke 12:48*) with a rich family heritage of OHSU graduates, so it only seemed right for us to participate by giving to the Foundation, to ensure excellence in health care education for the next generation."



Vicki, D.M.D. '87, and Paul, D.M.D. '87, Bonar

NINTH FLOOR OPERATORIES

William, D.M.D. '70, and **Linda Brodie**, R.D.H. '68, Jacksonville, Ore., named two further operatories, numbers 128 and 129 in the Sellwood group practice. The Brodies' new building gift now totals \$100,000. "Linda and I decided to give to the School because we felt fortunate to have had such great careers in dentistry. We were able to build a great life and thought that it was time to give back, so that future dentists can have the same experience," said Dr. Brodie.

Toni Eigner-Barry

New Endowed Lectureship in Honor of Eigner-Barry

With appreciation for all that his wife, **Toni Eigner-Barry**, D.M.D. '77, has done for community and special needs dentistry, **John Barry**, M.D. R. '73, recently created an endowed dean's lectureship in his wife's name. The endowed lectureship is a surprise for her, who is reading about her husband's gesture for the first time in *Caementum*!

"Toni is an Oregonian by birth, training, and commitment," said Dr. Barry. "She has spent her professional career providing dental care for patients with special needs here in Oregon, and abroad in Cameroon, Nepal, Cambodia, and Vietnam, and teaching others to do the same."

"As she withdraws from practice and teaching, I wanted to establish a lectureship to remind us of this group of patients whom many choose to ignore, and to recognize Toni's lifelong professional commitment to them."

The \$75,000 endowed lectureship will center around community dentistry. The first lecture is expected in the fall of 2015.



Dental School Donates Chairs and Microscopes

More than 30 dental chairs and dozens of microscopes from the Marquam Hill dental school recently were donated to dental clinics and schools around the world.

"With all new technology and changes to the curriculum in our new dental facility on South Waterfront, we had a lot of used, but useful equipment that we knew could be helpful elsewhere," said OHSU School of Dentistry Dean **Phillip Marucha**, D.M.D., Ph.D. "We are pleased to be able to give some of our old dental chairs and microscopes a good home, while helping to make a difference in oral care and education in low-income communities."

CHAIRS FOR CARE

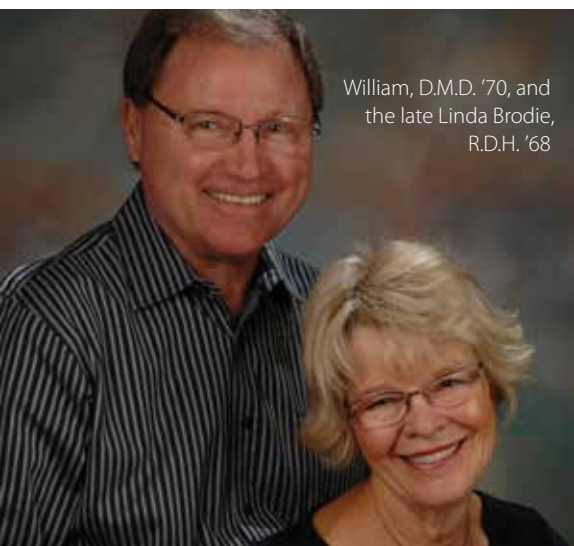
Fifteen dental chairs from the pre-doctoral clinic, graduate clinics, and continuing education department were donated to the Adopt an African Clinic for their care in Rwanda and Burundi. Ten chairs were donated to the Boys and Girls Clubs in Corvallis. And seven chairs were donated to the Wallace Clinic in Gresham for a pending dental clinic in that facility.

Adopt an African Clinic Founder **Drew G. Cahoon**, B.S.C., D.D.S., said 10 of the dental chairs will go to the Rwandan dental school, which is expanding, and the other five will go to Burundi (one for a new dental school being built in that city for dental therapist training; the other four to local referral hospitals).

"Burundi is the poorest and hungriest nation on earth," said Dr. Cahoon. "Eighty percent of the population lives on less than \$1 a day. There are 10 million people, with only nine dentists, who all practice in the capital. We are attempting to change that by bringing dental therapists to rural Burundi, and the chairs are a big help."

Alumnus **Ken Johnson**, D.M.D. '63, has been providing volunteer dental care at the Boys and Girls Clubs in Corvallis for the past seven years, along with wife, **Dot**, R.D.H.

(continued on page 12)



William, D.M.D. '70, and
the late Linda Brodie,
R.D.H. '68

"The need is out there," he said. Emergency room visits have been reduced for toothaches, he said, because of the Boys and Girls Clubs care. Dr. Johnson said the former OHSU dental chairs will be used for the current two-chair clinic, as well as a health center (medical, vision, dental) adjacent to the Boys and Girls Clubs that is in development.

The dental chairs donated to the Wallace Clinic, a federally-qualified healthcare center (FQHC) in Gresham, Ore., will outfit seven operatories in a new dental clinic that Wallace is building. When services are available, likely in 2016, the Wallace clinic will become an OHSU School of Dentistry community rotation.

"The donation of dental chairs and the opportunity to work with OHSU dental students was too good to pass up," said Wallace Medical Concern Chief Executive Officer **Lisa Cline**. "The chairs are amazing. This commitment from the dental school will help in our overall fundraising efforts for the new Wallace dental clinic, and we are so grateful."

MICROSCOPES ENHANCE LEARNING

With new technologies in Skourtes Tower advancing the histology, pathology, and microbiology curriculum, OHSU School of Dentistry recently donated about 40 microscopes to middle and high schools in Oregon.

"This was such a great opportunity to share with schools in low-income communities, many of whom are our partners in the On Track OHSU! Program," said **Susan Shugerman**, M.F.A., Ed.D., assistant vice provost for education outreach and collaboration. "These gifts will enable Oregon schools, many of whom are on tight budgets, even more focus on science and engineering."

Gifted were Nikon and Olympus compound microscopes, and Nikon, Olympus, and Wolfe compound binocular microscopes.

"The new microscopes inspired me to reconfigure my engineering class (enrichment) to bioengineering," said **Melanie Ramsey**, earth/space science and bioengineering teacher at Faubion PK-8 School in northeast Portland, who received four microscopes. "We will be using the microscopes to study DNA, bacteria, and other microorganisms as a cohesive part of issue-based learning that are relevant to medicine and environmental science. I will train the students how to use them as if they were in a workshop or in-service, where they will receive a certificate of basic or advanced mastery of microscopy."

"We are sincerely grateful for the wonderful donation."

Additional schools receiving OHSU School of Dentistry microscopes included: Portland Public School's Access School; Self-Enhancement, Inc.; Valley Catholic Middle School; Beaverton Health & Science School; Glencoe High School; Valor Middle School in Woodburn; French Prairie School in Woodburn; Albany High School; Arts and Technology Academy in Eugene; Roosevelt High School/George Middle School in Portland; and Culver Elementary, Middle, and High School in eastern Oregon.

Susan noted that her office also gratefully accepted 50 very old scopes in wooden boxes that were used by dental students who took them home to study, for use as gifts. "They are full of history, love, and learning, and we think people will treasure them," she said.



Third-year dental student Casey Norlin (center) talks with Portland Trail Blazers President and CEO Chris McGowan (right) who was the keynote speaker for the dental school's Nov. 14 Robert G. Gootee/Moda Health Endowed Lecture in Leadership and Professionalism. (Photo Jeff Ball)

Gootee Lecture Features Trail Blazers Leader

Portland Trail Blazers President and CEO **Chris McGowan** was the featured speaker for OHSU School of Dentistry's sixth annual Robert G. Gootee/Moda Health Endowed Lecture in Leadership and Professionalism. The Nov. 14 event was presented in a question-and-answer format moderated by Portland Business Journal editor **Suzanne Stevens**.

"I'm a believer in saying big things, and then hoping you can get a business team together and go accomplish your dream," said McGowan, who joined the Blazers in November of 2012, and lists his first accomplishments as a partnership with Moda Health, and de-layering of the organization.

"My job is to make decisions," said McGowan. "Leaders want to be compassionate, open, and efficient in making decisions so people are not walking on egg shells. You need to be a good communicator, and consistent in your style so people are comfortable coming to you."

McGowan also advised dental students to be organized, develop a career business plan, be adaptable and continual learners, and remain collaborative.

"Be passionate about what you're doing," said McGowan. "I call it the Sunday test. If you are pumped on Sunday about going to work, then you are in the right job."

Dean's Seminar Series Heads into Second Year

Dental alumni, professionals, and friends are welcome at the OHSU School of Dentistry's second annual Dean's Seminar Series, designed to infuse research further within the dental school.

The series kicked off on Sept. 30 with a "Meet the Mentor" session for dental students to learn more about potential research projects within which they can get involved. A lecture by **Brian Schmidt**, D.D.S., M.D., Ph.D., professor at the New York University (NYU) College of Dentistry, director of the Bluestone Center for Clinical Research, and director of the NYU Oral Cancer Center, followed in late October on the "Neurobiology of Cancer Pain." **Sunil Kapila**, B.D.S., M.S., Ph.D., Thomas M. and Doris Graber Endowed Professor, chair of the department of orthodontics and pediatric dentistry, and graduate orthodontics program director at the University of Michigan spoke in December on "Temporomandibular Joint Disorders: Innovations in Diagnostics and Therapeutics."

Michael Gold, Ph.D., professor of anesthesiology and associate director of the Center for Pain

Research at the University of Pittsburgh, is the speaker for Jan. 6. Stay tuned to www.ohsu.edu/sod for more information.



Michael Gold, Ph.D., will speak at the dental school on Jan. 6, as part of the second annual Dean's Seminar Series.

"In our second year, we are focusing on highly-sought after nationally-recognized speakers whose research complements the research already being conducted at the dental school," said **David Morton**, Ph.D., professor and associate dean for research. "Our speakers so far this academic year have discussed the neurobiology of cancer pain and the implications for regeneration and cancer of blood vessel regression regulators during wound resolution.

"We hope the seminars stimulate research collaboration at the dental school, and within OHSU and the dental community, as well as broaden the educational experience for students, whose clinical expertise will be strengthened by understanding and participating in research," said Dr. Morton.



Professor and Chair of Restorative Dentistry Jack Ferracane speaks with first-year dental student Kenneth Weekes, about research opportunities at the dental school, part of the Dean's Seminar Series. (Photo Sydney Clevenger)

NEW OHSU RESEARCH VIDEO

To elevate awareness of OHSU's research strengths, as well as differentiate OHSU from other universities, a new research video was recently created. School of Dentistry Dean **Phillip Marucha**, D.M.D., Ph.D., appears mid-way through the two-minute video, which can be viewed at www.ohsu.edu/sod under the Nov. 13 Top News Story.

New Faculty Join OHSU School of Dentistry

A number of new faculty have joined OHSU School of Dentistry in the past six months.

According to Dean **Phillip Marucha**, D.M.D., Ph.D., the dental school has received funding from the provost's office to increase dental faculty, with the goal of a six-to-one student-to-faculty ratio on the pre-doctoral clinic floor.

"Our faculty needs are very important right now," said Dr. Marucha. "We want to take care of the full- and part-time faculty we have currently, by rewarding them for their hard work and ensuring they have the training and development they need, as well as bringing on new faculty to ensure we continue our excellent patient care and education."

The following faculty are new to the school:



Joseph V. Califano, D.D.S., Ph.D., professor of periodontology. Dr. Califano received his doctor of dental science, and a doctoral degree in microbiology/immunology, from Virginia Commonwealth University. Most recently, he was professor and

director in the division of periodontology at East Carolina University School of Dental Medicine, and professor of periodontics and director of post-graduate periodontics at the University of Illinois at Chicago School of Dentistry.



Mary Pat Califano, B.S.N., M.B.A., oral and maxillofacial surgery instructor. Mary Pat received her bachelor of science in nursing from the Medical College of Virginia/Virginia Commonwealth University, and a master's degree in business administration from

Averett University. She was quality assurance coordinator at East Carolina University School of Dental Medicine, and clinical nurse specialist in the department of oral and maxillofacial surgery at the University of Illinois at Chicago School of Dentistry.



Anna Forsyth, D.D.S., M.S.D., assistant professor in pediatric dentistry. Dr. Forsyth received her doctor of dental surgery from the University of Washington in 2006, and after a general practice residency in Washington, D.C.,

returned to Seattle for a master of science in dentistry and a certificate in pediatric dentistry. Most recently, Dr. Forsyth has been in private practice at Hi5 Dental and Capitol Group Smilekeepers, as well as a visiting adjunct professor at Pacific University School of Dental Health Science.



Shawneen Gonzalez, D.D.S., M.S., is the school's new director of radiology (for more, go to page six).



Nicole Kimmes, D.D.S., is a new assistant dean for faculty development and technology. Dr. Kimmes received her doctor of dental surgery from Creighton University School of Dentistry in 2001, where most recently she was associate professor and director of dental informatics. Dr. Kimmes also

directed Creighton's oral and maxillofacial imaging center, and has been in private practice.



David Lambert, D.D.S., assistant professor in oral and maxillofacial surgery. Dr. Lambert has been on faculty at The University of North Carolina at Chapel Hill School of Dentistry since 1991, and most recently was an assistant adjunct professor of oral and maxillofacial surgery. Dr. Lambert

received his doctor of dental surgery from the University of North Carolina.



Justin Merritt, Ph.D., associate professor in the department of restorative dentistry. Dr. Merritt completed his graduate studies and doctoral degree at the Molecular Biology Institute at the University of California, Los Angeles. Most recently, Dr. Merritt has been associate professor in

the department of microbiology and immunology in the College of Medicine at the University of Oklahoma Health Sciences Center. Dr. Merritt's research focuses on the mechanisms used by signal transduction systems to control various virulence properties of several bacterial pathogens associated with tooth decay.



William Moore, D.M.D., Pediatric Dentistry, '14, assistant professor of pediatric dentistry. Dr. Moore just completed a two-year pediatric residency at OHSU. He received his doctor of dental medicine

from Tufts University School of Dental Medicine.

Prashant Poplai, D.D.S., assistant professor of restorative dentistry. Dr. Poplai joined the OHSU faculty as an affiliate in July, after having been a dental continuing education course coordinator at the University of California, San Francisco (UCSF) School of Dentistry. Dr. Poplai received his doctor of dental surgery from UCSF School of Dentistry. In addition to English, Dr. Poplai is fluent in Urdu and Hindi, and he is now studying Spanish.



Amit Punj, D.M.D., B.D.S., assistant professor of restorative dentistry. Dr. Punj recently received his certificate in prosthodontics from Montefiore Medical Center. Prior to advanced education, Dr. Punj was managing clinical director

at Aspen Dental in Machesney Park, Ill., and managing clinical director at Allcare Dental and Dentures in Rockford. Dr. Punj received his doctor of dental medicine from the Tufts University School of Medicine in 2005, and a bachelor of dental surgery from K.L.E. Society's Institute of Dental Sciences in Karnataka, India.



Craig Robbins, D.M.D. '04, is an assistant professor of restorative dentistry, after having joined the school as an affiliate faculty member earlier in the year. Dr. Robbins owns Harmony Family Dentistry in Vancouver. Prior to opening

his private practice, Dr. Robbins was an associate at Grin & Bear It Family Dental Center, Dental Care Today, and Permanente Dental Associates. Dr. Robbins received his bachelor of science in urban planning from Brigham Young University, and was a history minor.



Ying Wu, D.D.S., M.S.D., Ph.D., is assistant professor in the department of pathology and radiology. Dr. Wu was most recently an assistant professor of oral diagnosis and oral medicine in the department of general dentistry at Boston University Goldman School of Dental Medicine. She completed her doctor of dental surgery at

Harbin Medical University in China, a master's degree in periodontology from Capital University of Medical Sciences in Beijing, a doctoral degree in oral biology from the University of North Carolina at Chapel Hill, and a master's degree in oral medicine from the University of Washington. Her research interest is orofacial pain.



Marcel Wehrli, Ph.D., is associate professor in biomaterials and biomechanics, working in collaboration with Professor and Associate Dean for Research **David Morton**, Ph.D. Dr. Wehrli joined OHSU in its department of cell and developmental biology in 2001, and is a

primary investigator at the Knight Cancer Institute. He received his doctoral degree in molecular biology from the University of Zurich, and completed postdoctoral fellowships at Columbia University and the University of Pennsylvania. Dr. Wehrli maintains dual citizenship, in the U.S. and Switzerland. Dr. Wehrli's research is focused on Wnt signal pathways, a group of transducers made of proteins that enable communications from the outside to the inside of cells.

Recent Dental Faculty Appointments and Awards

Associate Dean for Academic Affairs **Phyllis Beemsterboer**, M.S., Ed.D., was recently appointed to a three-year term on the Board of Regents for the American College of Dentistry. Dr. Beemsterboer is the liaison for the ethics group.

Assistant Professor of Periodontology **Harjit Singh Sehgal**, B.D.S., M.S., F.A.G.E., recently received the American Academy of Periodontology Foundation Fellowship Award to the Institute for Teaching and Learning in Health Professions. The award sponsors participation in the ADEA (American Dental Education Association) Academy for Academic Leadership Institute for Teaching and Learning.

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Join OHSU School of Dentistry's 775 followers by linking to www.facebook.com/ohsuschoolofdentistry for the latest news.

New Grant and Publication for Machida Lab



The lab of **Curt Machida**, Ph.D. '83, principal investigator and professor of integrative biosciences and pediatric dentistry, has been busy! Recently, Dr. Machida received a three-year, \$455,520 R15 grant from the National Institutes of Health (NIH)'s National Institute of Dental and Craniofacial Research. R15 grants are academic research enhancement awards for educational institutions to provide research experiences for students and graduate residents.

Under this grant, Machida and his team will study cariogenic microorganisms in children with severe early childhood caries. The title of the project is: "Dominant Mutans Streptococci Genetic Strains in Caries-Active Children."

"Dental caries represents one of the most common chronic diseases affecting young children, and is a multi-factorial disease involving complex interactions of risk factors," said Dr. Machida. "With the mutans streptococci group as the most cariogenic microorganisms associated with dental caries, we propose to identify the microbial factors affecting the genetic diversity and potential selection of mutans streptococci strains following caries restorative therapy in children. Our study is innovative because of its potential to predict the outcome of caries preventive therapy based on the identification of the mutans streptococci strains."

In prior work, the Machida team has described genetic fingerprints of mutans streptococci isolates, before and after treatment in children exhibiting severe early childhood caries. The team also identified the dominant mutans streptococci genetic strains that occur within carious and non-carious sites within the oral cavity of individual patients, and have characterized strain cariogenicity properties.

"Our published studies have identified 39 strains of mutans streptococci and have found that caries restorative therapy in some patients results in population shifts to highly acidogenic or acid-tolerant mutans streptococci strains,

with single dominant mutans streptococci strains appearing one year post therapy," said Dr. Machida. "The objectives of this current project are to initiate a new cohort of 240 patients where restorative and adjunctive therapy measures can be applied independently to ascertain selective effects, and develop a standardized genetic database of mutans streptococci strains with defined cariogenic phenotypes that may serve as predictive microbial identifiers for dental caries and treatment outcomes."

"We are hypothesizing that children with severe early childhood caries may possess distinct genetic strains of mutans streptococci, which undergo resistance and/or selection during specific aspects of caries restorative treatment, and this impacts the effectiveness and long-term outcome of the treatment."

Secondarily, Dr. Machida said his team believes that mutans streptococci strains that survive or are selected for survival within cariogenic lesions are highly aciduric and oxygen-tolerant compared to other strains found within the oral cavity of children with severe early childhood caries.

"The translational goal of this project will be to provide insight on the efficacy of restorative and adjunctive therapy practices in the elimination and/or reduction of certain mutans streptococci strains in caries-active children," he said. "Treatment in some patients with severe early childhood caries results in the appearance of dominant and highly cariogenic mutans streptococci genetic strains, which conceivably could place the patient at even higher risk for caries."

The Machida team includes: **John Engle**, D.D.S., co-investigator and assistant professor and chair of pediatric dentistry; **Dongseok Choi**, Ph.D., co-investigator and professor of public health and preventive medicine, School of Medicine, and professor of community dentistry, School of Dentistry; **Tom Maier**, Ph.D., assistant professor of integrative biosciences; **John Peterson**, D.D.S., professor of pediatric dentistry; **Elizabeth Palmer**, D.M.D. '08, Pediatric Dentistry '10, clinical assistant professor of pediatric dentistry at the University of Washington; and **Justin L. Merritt**, Ph.D., associate professor of restorative dentistry.

Machida team identifies mutans streptococci strains in children with severe early childhood caries

Researchers in the **Curt Machida**, Ph.D., lab recently identified primary or predominant strains of highly-cariogenic mutans streptococci bacteria in children with severe early childhood caries. The team also found that some children have more than one strain of streptococci bacteria in different locations within the oral cavity, influencing the potential development of carious lesions. The study was published online in the Oct. 29 Journal of Oral Microbiology. The abstract is available at <http://www.journaloforalmicrobiology.net/index.php/jom/article/view/25805>.

Class of 2018 Joins OHSU School of Dentistry

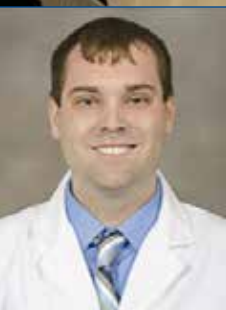


The Class of 2018 — the first to begin its education in the new Skourtes Tower — have three months under their belt as first-year dental students.

Fifty-two (68 percent) of the Class of 2018 are from Oregon; eight are from WICHE states; and 16 are from out of state. The average age is 25, with 50 males and 26 females, and the overall grade point average is 3.61. A handful of incoming students have either two bachelor's degrees, or a master's degree as well as a bachelor's degree.

When self-reporting on ethnicity (and more than one ethnicity can be reported), 52 DS1s indicated that they are Caucasian; 15 said that they are Asian; four selected Hispanic/Latino; one identified as a Native Hawaiian/Pacific Islander; two selected more than one ethnicity; and two new students did not report.

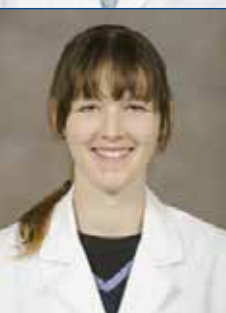
Surveyed during the initial weeks of dental school, the top reasons why the Class of 2018 indicated that they picked dentistry are to help others, boost oral health, build community, and the combination of art and science that dentistry provides. Below, meet a few of our first-year dental students:



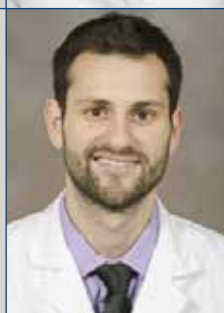
Name: Stephen Barrett
Hometown: Eugene, Ore.
Undergraduate: University of Oregon
Degree: B.S. in biology; chemistry minor
Why dentistry: I have grown up around dentistry and it felt right.



Name: Gwen Hryciw
Hometown: Portland, Ore.
Undergraduate: Willamette University
Degree: B.S. in biology
Why dentistry: I enjoy fixing things and working with people.



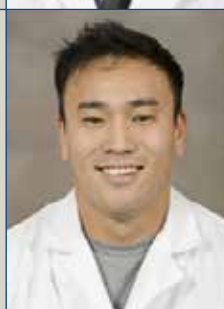
Name: Sophie Diepenheim
Hometown: Bend, Ore.
Undergraduate: University of Puget Sound
Degrees: B.S. in molecular and cellular biology; B.A. in music
Why dentistry: I am good with my hands and I can see myself practicing for 20+ years.



Name: Philip La Lande
Hometown: Vancouver, Wash.
Undergraduate: Oregon State University
Degree: B.S. in biology
Why dentistry: I love building and creating with my hands and enjoy helping others.



Name: Jacob Goertz
Hometown: Oregon City, Ore.
Undergraduate: Wheaton College
Degree: B.S. in biology
Why dentistry: I want to serve by giving people beautiful, healthy smiles.



Name: Travis Nishioka
Hometown: Honolulu, Hawaii
Undergraduate: Claremont McKenna College
Degree: B.S. in biology
Why dentistry: To help people feel confident about themselves.



Name: Payam Hooshmand
Hometown: Tucson, Ariz.
Undergraduate: University of Arizona
Degree: B.S. in physiology
Why dentistry: I enjoy working with my hands.



Name: Sunanth Sakthivel
Hometown: Beaverton, Ore.
Undergraduate: Oregon State University
Degree: B.S. in general science
Why dentistry: I enjoy working with my hands and meeting new people.

Major Research Awards for Third-Year Dental Student

A third-year dental student won two major research awards in October.

Third-year dental student **Jonathan Yih** was one of two students — out of a national pool of 58 — who won the 55th American Dental Association (ADA)/DENTSPLY Student Clinician Research competition during the ADA's annual conference in San Antonio. Jon placed first in the Clinical Science/Public Health category (Basic Science was the other category) for his research project, "Thiourerthane Oligomers Improve the Properties of Light-cured Resin Cements."

It is believed this is the first time an OHSU student has won first place in the national ADA/DENTSPLY student research competition.

For his efforts, Jon won a trophy and cash prize. "Pretty cool," said Jon.

However, after graduating from Oregon State University in 2011 with a bachelor of science in bioengineering, Jon wasn't sure he would ever do research again!

"It just didn't seem for me," said the third-year dental student, a Salem, Ore., native.

But then he heard **Carmem Pfeifer**, D.D.S., Ph.D., assistant professor of restorative dentistry, explain her research in a dental materials class.

"I connected with her research in biomaterials/polymers because of my bioengineering undergraduate background." Jon talked with several other students in OHSU School of Dentistry's growing Dental Student Research Group, formed a research team (classmates **Jacqueline Platta** and **Joseph Knight**), and "have had fun doing research since."

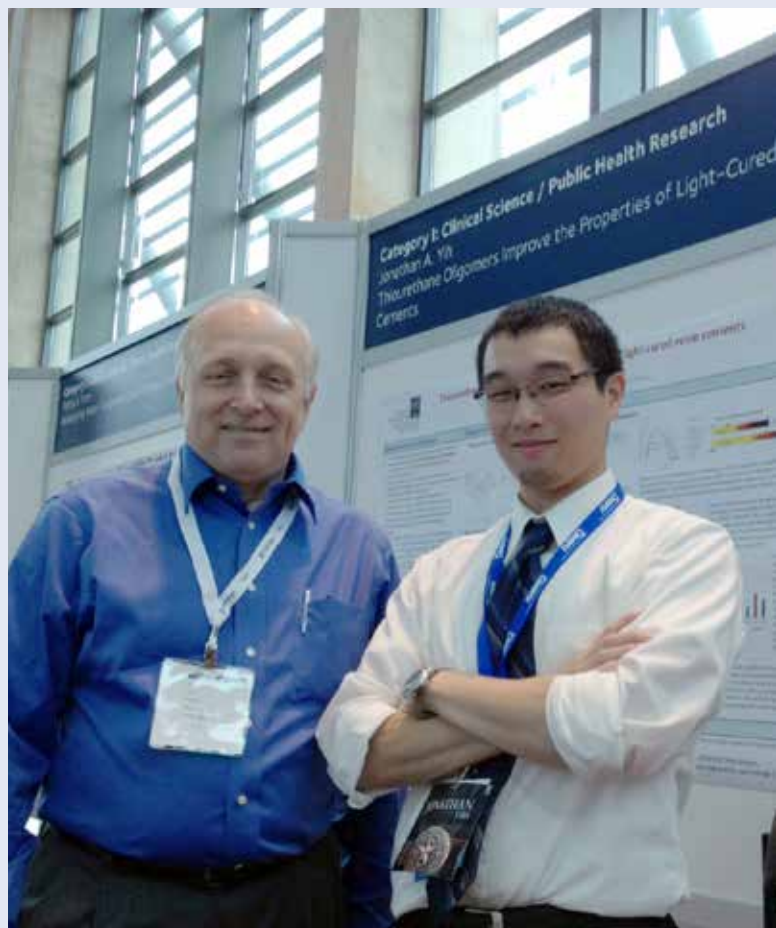
Dr. Pfeifer described Jon as very dedicated and inquisitive. "He truly has demonstrated a passion for research," she said. "He has all the traits necessary for a career in academics. Or, if he chooses to focus on a strictly clinical career, he will certainly be a very critical, evidence-based practitioner. I am really proud of Jon and what he and his teammates have accomplished in such a short period of time."

In April, Jon presented his research at the Oregon Dental Association (ODA)/DENTSPLY-sponsored Student Table Clinic during Oregon Dental Conference weekend, and learned in May on the school's annual Research

Day that he'd won first place: \$500 from the ODA and an all-expenses paid trip to the ADA conference, where he presented on Oct. 11.

"The Student Table Clinic is such a valuable opportunity for dental students who are interested in pursuing research," said **Thomas Hilton**, D.M.D., M.S. '03, alumni centennial professor of operative dentistry. "We are grateful for the continued support of ODA and DENTSPLY."

Also in October, Jon entered the student research competition of the Portland section of the American Chemical Society, sponsored by Portland State University, and placed second in the materials chemistry division. "He competed with chemists and chemical engineers, and was the only dental student there," said Dr. Pfeifer. "This is pretty huge!"



Oregonian Jonathan Yih won first place in the national ADA/DENTSPLY student research competition in October during the American Dental Association annual conference in San Antonio. The third-year dental student is shown here with Dean Phillip Marucha, D.M.D., Ph.D. (Photo Mark Kemball)



Mark Alder, D.M.D. '80, in Astoria in October, likens dentistry to fishing.

President's Message

The end of the year is here, and what a year it's been! And I'm not just talking about the move to a new dental school for which we've been waiting so long. No, I'm talking about the fall fishing season. As some of you know, I've enjoyed fishing since I was a little boy, so I've been fishing for a long time. Let me tell you, 2014 was a fall fishing season to remember; nothing like I've ever seen in terms of the number and size of the fish!

What exactly does this have to do with dentistry? Well, like fishing, dentistry is often a solitary pursuit. No one is there to see if you follow the rules, you have to keep up on the latest regulations, and there are always temptations to skirt the line ... since only you would know if you overstepped a boundary.

And that is where ethics and professionalism come into play. From the time you begin your dental journey until the time you retire, you are held to a higher standard by society and your colleagues in particular. Our opinions as dental professionals, rightly or wrongly, have weight behind them because we are perceived as professionals.

Ethics and professionalism are not abstract concepts; rather, they are concrete actions dental professionals practice every day. There are many challenges dental professionals face: new technologies, the Affordable Care Act, patient expectations, the ups and downs of the economy. But no matter the changes, there is a reason dental professionals always rank high in the public's perception of trusted people. It's because we are trusted.

As the year closes, I challenge each of you to always live the trust with which we are bestowed, and the nine tenets of ethics: respect, beneficence, compassion, competence, integrity, justice, professionalism, tolerance, and veracity.

Whether you are practicing dentistry, or just gone fishing, keep up the good work.

Happy New Year!

A handwritten signature in black ink, appearing to read 'Mark Alder'.

Mark Alder, D.M.D. '80

Call for Nominations

OHSU School of Dentistry's Alumni Association is always accepting nominations for two awards presented at the Annual Awards Luncheon during Oregon Dental Conference weekend in April.

Alums are invited to nominate their peers for the John C. Peterson Alumnus of the Year Award and the Legacy Faculty Award. The John C. Peterson Alumnus of the Year Award is given to one OHSU dental alum annually who has elevated the school and its Alumni Association, as well as the dental profession. The Legacy Faculty Award is given to OHSU dental faculty, past or present, who have gone above and beyond in their longtime mentorship of students.

To nominate a candidate for either award, please submit a letter of nomination and a curricula vitae (if possible) to: Chadd Olesen, OHSU School of Dentistry Alumni Association, 1121 S.W. Salmon Street, Suite 100, Portland, Ore., 97205, or email alumni@ohsu.edu.

Class Notes

Class of 1977



Harold K. Tu, M.D., D.M.D. '77, recently became director of the division of oral and maxillofacial surgery at the University of Minnesota School of Dentistry, and the inaugural appointee to the Dr. James Q. Swift Professorship in Oral and Maxillofacial Surgery, an endowed position. Dr. Tu received his medical degree from the University of Nebraska Medical School, and completed his oral and maxillofacial residency and his general surgery internship at the University of Nebraska Medical Center. He joined the University of Nebraska faculty in 1982, serving in a number of positions, including director of the OMFS residency program, the Oral Facial Implant Clinic, and chair of the Quality Assurance Committee. In 1991, while on sabbatical, he pursued a fellowship in facial cosmetic surgery at MedCenter One in Bismarck, N.D., and became the first oral and maxillofacial surgeon in Nebraska credentialed for facial cosmetic surgery. Dr. Tu opened a private practice in 1996. In 2006, he received the Milagro Award from One World Health for providing indigent care in the Omaha community.

Class of 1994

Todd Beck, D.M.D. '94, assistant professor of community dentistry, had the honor on July 7 to care for one of OHSU School of Dentistry's first pre-doctoral clinic patients in the new Skourtes Tower. Dr. Beck has been on faculty since 2010, and is also in private practice on South Waterfront. (Photo Sydney Clevenger)



Class of 1996



Kelli Swanson Jaecks, R.D.H. '96, M.A., Salem, Ore., is president of the American Dental Hygienists' Association (ADHA) for 2014-2015. Kelli has served the ADHA for a number of years including ADHA

president-elect, district XII trustee, and several delegate and committee positions. She has also served as president of the Oregon Dental Hygienists' Association, as well as president of the Marion-Polk Yamhill Dental Hygienists' Association (MPYDH). Kelli is president of Verbal Impact, LLC, an educational and consulting company that offers health care courses. Kelli has a master's degree in communication and adult education from Oregon State University. She has received various recognitions and awards, including ADHA Research Poster Presentation in 2007, and the MPYDH Inspirational Leadership Award, in 2006.

In Memoriam

1950s

John C. Adams, D.M.D. '54, Missouri City, Texas, died Nov. 6, at age 89.

Virginia Gray, D.M.D. '51, Lake Oswego, died June 1, at age 83.

Walter N. Johnson, D.M.D. '51, Seaside, Ore., died Aug. 27, at age 89.

Charles A. Leveque Jr., D.M.D. '52, Portland, Ore., died Aug. 2, at age 96.

1960s

Linda M. Brodie, R.D.H. '68, Jacksonville, Ore., died Sept. 28, at age 68.

Robert Klosterman, D.M.D. '69, Salem, Ore., died June 9, at age 84.

1970s

William Taylor, D.M.D. '71, Portland, Ore., died May 19, at age 70.

Faculty

John Thomas, D.D.S., an assistant professor of pediatric dentistry in the 1970s and 1980s, died Nov. 6, at age 77.

OHSU School of Dentistry Alumni Association Annual Awards Luncheon

SATURDAY, APRIL 11, 2015

11:30 a.m. to 1 p.m. (doors open at 11 a.m.)

Oregon Convention Center

COST: \$40 per person

REGISTER (opens early 2015)

503.552.0745 or www.ohsu.edu/sod/alumni

Reunions! Awards! Celebration!

Join your alumni family to recognize the recipients of the School of Dentistry Alumni Association's premier awards, reminisce with classmates, and learn how faculty, staff, students and patients are enjoying the School of Dentistry's new home in Skourtes Tower on South Waterfront.

Graduates from the DMD and RDH reunion classes ending in "5" and "0" will be honored. Alumni from the class of 1965 and earlier, as well as the class of 2014, are admitted to the lunch at no charge, as guests of the Alumni Association. Advanced registrations are required.



**SCHOOL OF DENTISTRY
ALUMNI ASSOCIATION**
Oregon Health & Science University

Rural Rotations Helped OHSU School of Dentistry Alum Fulfill Passion

If you want to know whether OHSU School of Dentistry's community rotation program is working, look no further than Medford, Ore. Since 2009, when the five-year-old program was piloted to bring dental students to rural parts of the state, 10 of the 11 dentists hired at La Clinica del Valle have been OHSU graduates.

"The community rotation program is instrumental," said **Amy Fine**, D.M.D. '09, La Clinica dental director and general dentist. "La Clinica's dentists know the OHSU curriculum, the quality of care, and the sequence of care that is taught so we know what to expect in clinical experience from OHSU dentists. Our team demonstrates to the rotating students' teamwork, camaraderie, the value of working in public health, and an open forum for continued learning."

"Dental students who come to Medford for the community rotation program see the positive influence they can provide in the community. It is a major benefit for dental students to get out into different areas of the state and see the reality of everyday life," said Dr. Fine.

"At La Clinica, we can act as mentors, and help students learn and grow, and also help them determine whether community dentistry is the right fit for them."

About two-thirds of the Class of 2015 has provided oral care at 30 sites in Oregon, Washington, Montana, Alaska, and Oklahoma since June, and the remainder will complete their rotation by May of 2015, said **Jill Mason**, M.P.H., R.D.H., associate professor of periodontology and community dentistry, and rotation director. Dental students are now required to provide care in the community for a minimum of two weeks; however, nearly 25 percent of the Class of 2014 exceeded their two-week requirement, some providing as many as six weeks in the community. Compared to five years ago, more dental students now opt for public health when they graduate.

"Dental students consistently tell us that the community experience is one of the highlights of dental school," said Jill. "They can see patients at a dental office pace which really helps them test their skills outside the clinic, and gives them added confidence."

Dr. Fine was one of the 30 students who participated in the community rotation program five years ago when it was an elective and she spent one week seeing patients in Medford. "Growing up, my family faced many barriers, including some significant financial ones," said Dr. Fine. "I always knew I wanted to help the underserved."

Dr. Fine was born in Wyoming, moving to Monmouth as a young girl,

and then on to the Portland-area. She attended the University of Oregon, graduating with a bachelor of science in general science through the honors college.

After college graduation, Dr. Fine was a biochemist at a Eugene, Ore.-based biotechnology company for three years.

"I always planned on going into the medical field," said Dr. Fine, who completed a medical externship in Zimbabwe while a college junior. "I wanted to help people be healthy." After talking with physicians about their careers, and spending time shadowing dentists, Dr. Fine selected dentistry.

"I love Oregon," she said. "And OHSU is known nationally for its strong curriculum. I also knew I wanted to practice in the state so it made sense to go to school here."

Dr. Fine attended dental school on a National Health Service Corps (NHSC) Scholarship. OHSU's community rotation program and her three-year service commitment to NHSC initially brought her to Medford.

"I stayed with La Clinica in Medford because of the great work that's done here for the underserved population," she said. "I have had multiple job offers, but I am drawn to the mission of helping the underserved."

The La Clinica network in Medford opened its first dental clinic in 2000, and in 2009 before Dr. Fine joined, three dentists were serving about 4,400 patients a year with more than a six-month waiting list. Now, La Clinica has 12 sites with two dental clinics and a mobile clinic that includes medical and dental services. La Clinica is currently recruiting for additional dentists and expects to serve more than 9,000 patients this year.

Though the Affordable Care Act Expansion increased coverage for many Oregonians under the Oregon Health Plan (OHP), few dentists accept OHP/Medicaid, so La Clinica helps fill that gap, said Dr. Fine.

"There is still a struggle for access to care," she said. "Since January of 2014, we've actually seen a significant increase in patient demand for dental visits. Some of the patients we're seeing haven't seen a dentist in 10 years because they didn't have insurance and now they do."

Dr. Fine lives in Medford with her husband, **Joshua**, and children **Kenton**, 6, and **Ariana**, 3.

"Medford is beautiful with great weather," said Dr. Fine. "I really enjoy my colleagues, and helping provide access to dental care."

Ten of the 11 La Clinica del Valle dentists in Medford are OHSU School of Dentistry graduates including (from left to right) Jesse Hollander, D.M.D. '12, Tyler Scott, D.M.D. '12, Tyler Wilson, D.M.D. '14, Kenneth McGowan, D.M.D. '11, Erica Coe, D.M.D. '13, Philip Getsinger, D.M.D. '11, Ian Kittelson, D.M.D. '10, Andy Stein, D.M.D. '13, and Amy Fine, D.M.D. '09. (Not pictured Anton Conklin, D.M.D. '12, and Daniela Diaz, D.D.S.) (Photo Keela Sutton)





Dental hygiene alums (from left to right) Kelli Swanson-Jaecks, R.D.H. '96, M.A., Janet Young, R.D.H. '65, Hildie Oliver, R.D.H. '00, Gail Aamodt, R.D.H. '77, M.S., and Kathy Moore, R.D.H. '81, enjoyed a tour of the OHSU/OUS Collaborative Life Sciences Building on Nov. 15, during the Oregon Dental Hygienists' Association's annual conference. Kelli is the current American Dental Hygienists' Association (ADHA) president (see story, page 20) and Hildie is the outgoing Oregon Dental Hygienists' Association president. Gail was formerly an OHSU School of Dentistry instructor, and in 2014, received the Educator of the Year Award from ADHA and Crest Oral-B. "The old building was so worn out," said Kathy. "We needed a new one. This building is amazing, I love it." (Photo Sydney Clevenger)



ABOVE: Second-year dental student Jordan Bodily (right) is congratulated by Tom Galbraith, D.D.S., assistant professor and Broadway group leader (left) before receiving her white coat on Sept. 12, while her father, Daniel, D.M.D. '91 (center) looks on. (Photo Aaron Bielek)



LEFT: Donald Nixdorf, D.D.S., M.S. (left) and Alan Law, D.D.S., Ph.D., were the guest speakers for the Sept. 20 Cantwell Memorial Lecture/Margaret M. Ryan Dental Hygiene Update, the first Back-to-School lecture in the OHSU/OUS Collaborative Life Sciences Building. (Photo Sydney Clevenger)

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The Advanced Endodontics team of Donna Mattscheck, D.M.D. (right), Scott Barry, D.M.D. '96, assistant professor of endodontology and Alumni Association board member (second from right), Eric Burbano, D.M.D. '68, Alumni Association board member (second from left), and Marty Burbano, D.M.D. '98, enjoyed a morning of golf at the annual Cantwell Memorial Golf Tournament, held at the Reserve Vineyards and Golf Club in Aloha, Ore., on Sept. 19. (Photo Fred Bremner, D.M.D. '64)

Alumnus Kenneth Wiltbank, D.M.D. '98, assistant professor of endodontology (left) and Post-doctoral Fellow Patrick Heapy, D.M.D. '10, in the school's new pre-doctoral endodontology clinic in October. (Photo Sydney Clevenger)



Alumni and friends Brandon Kearby, D.M.D., Dan Miller, D.M.D. '11, Brad Hagedorn, D.M.D. '11, and John Delplanche, D.M.D. '08, Orthodontics '08, teamed at the Cantwell Memorial Golf Tournament on Sept. 19. (Photo Fred Bremner, D.M.D. '64)



BELOW: Alumni prepare for the first event in the Oregon Dental Association Lecture Hall in the Skourtes Tower: the Cantwell Memorial Lecture/Margaret M. Ryan Dental Hygiene Update, on Sept. 20. (Photo Sydney Clevenger)

Eugene V. Meyerding Jr., D.M.D. '80 (right) and his wife, Linda, at the OHSU School of Dentistry's alumni reception during the American Dental Association's annual conference in San Antonio in October. About two dozen alumni and their spouses connected with their alma mater at the reception, on Oct. 10. (Photo Steve Timm, D.M.D. '78)





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2015 Calendar of Events

Spring 2015

Dental Specialty Speed Dating
Dentist volunteers wanted!

April 2

School of Dentistry Research Day

April 9-11

Reunion Weekend

April 11

Annual Awards Luncheon
Oregon Convention Center

May 1-4

WREB Dental Exam

June 5

Commencement

September 18 (tentative)

Cantwell Memorial Golf Tournament

September 19 (tentative)

**Cantwell Memorial Lecture &
Margaret M. Ryan Dental Hygiene Update**

November 5 - 8

American Dental Association Annual Session
Washington, DC
Alumni Reception date to be confirmed.

Please contact the Alumni Relations and Educational Development program with questions:
alumni@ohsu.edu or (503) 552-0745.