

# DIAMOND

Maurice H. Kornberg School of Dentistry Magazine | Fall 2016

Digital Dentistry:  
The **new**  
**frontier**  
in dental education  
and practice



Kornberg School of Dentistry



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## MESSAGE FROM DEAN AMID I. ISMAIL

# How We're Approaching the Dawn of a New Era

As I reflect on the 153 years of our dental school, this thought amazes me: The Philadelphia Dental College, Temple University School of Dentistry and now the Maurice H. Kornberg School of Dentistry have experienced every step of dental practice development—from the time before amalgam and restorative dentistry started in the late 19th century, to the electric power revolution of the early 20th century, to the emergence of modern-day practice materials and instruments.

Just as important to realize is that throughout this progress, our faculty and alumni have been pioneers in the dental field. They adopted restorative care early in the G.V. Black era and then nitrous oxide and dental implants. Even now, our faculty are moving toward using emerging technologies as this rich history in dental education and practice continues.

For instance, in this issue you'll read about a new medical clinic, which will be home for a medical-dental integrated practice unit and healthcare coordination center. The clinic represents the early stages of a new dental practice model for patients who are older and have complex medical, social, behavioral and pharmacological histories. You'll also want to look at articles about the practice of the future. It's digital and "in clouds," and we're responding with a new digital dentistry program initiated with a generous equipment contribution from Henry Schein, Inc. As we develop the program's Center for Excellence in Digital Dentistry, our faculty will be engaging in cutting-edge application and research of new digital techniques in patient care.

*"Clearly, we envision a day when all impressions will be digital and designs of all prostheses and fabrication will be managed electronically. So, within a decade, our museum of outdated equipment will have impression trays and materials, carving instruments, dental wax and all burners."*

— Dean Amid I. Ismail



Dean Amid I. Ismail  
Laura H. Carnell Professor

## Kornberg at Forefront of New Era with **Digital Dentistry**

Clearly, we envision a day when all impressions will be digital and designs of all prostheses and fabrication will be managed electronically. So, within a decade, our museum of outdated equipment will have impression trays and materials, carving instruments, dental wax and all burners.

As we stay very focused on how we approach the dawn of this new era, we're taking one more step. It's collaborating with Temple University's renowned Tyler School of Art to recruit digital dental artists.

In the research area, we're also initiating a progressive program. It's investigating the oral microbiome, which will create new knowledge on etiology of dental caries, periodontal diseases and oral cancer. We will start with two new research faculty who have been recruited to work with a multidisciplinary team at Temple University and with other national centers of excellence in this field. It's a new journey in dentistry.

In education, we've implemented new methods to evaluate the competencies of our students. Within a month, our InsightDent™ application will be accessible from all smartphones and personal computers and allow dental educators and practitioners to share real-life patient cases and discuss them in an open forum. This tool should help calibrate faculty and dentists and develop a learning organization.

Finally, we're building on our record as one of the earliest adopters of nitrous oxide use. Just completed is a new Sedation Center. It's providing care under different levels of conscious and unconscious sedation to patients who can be treated in a general practice setting on an outpatient basis.

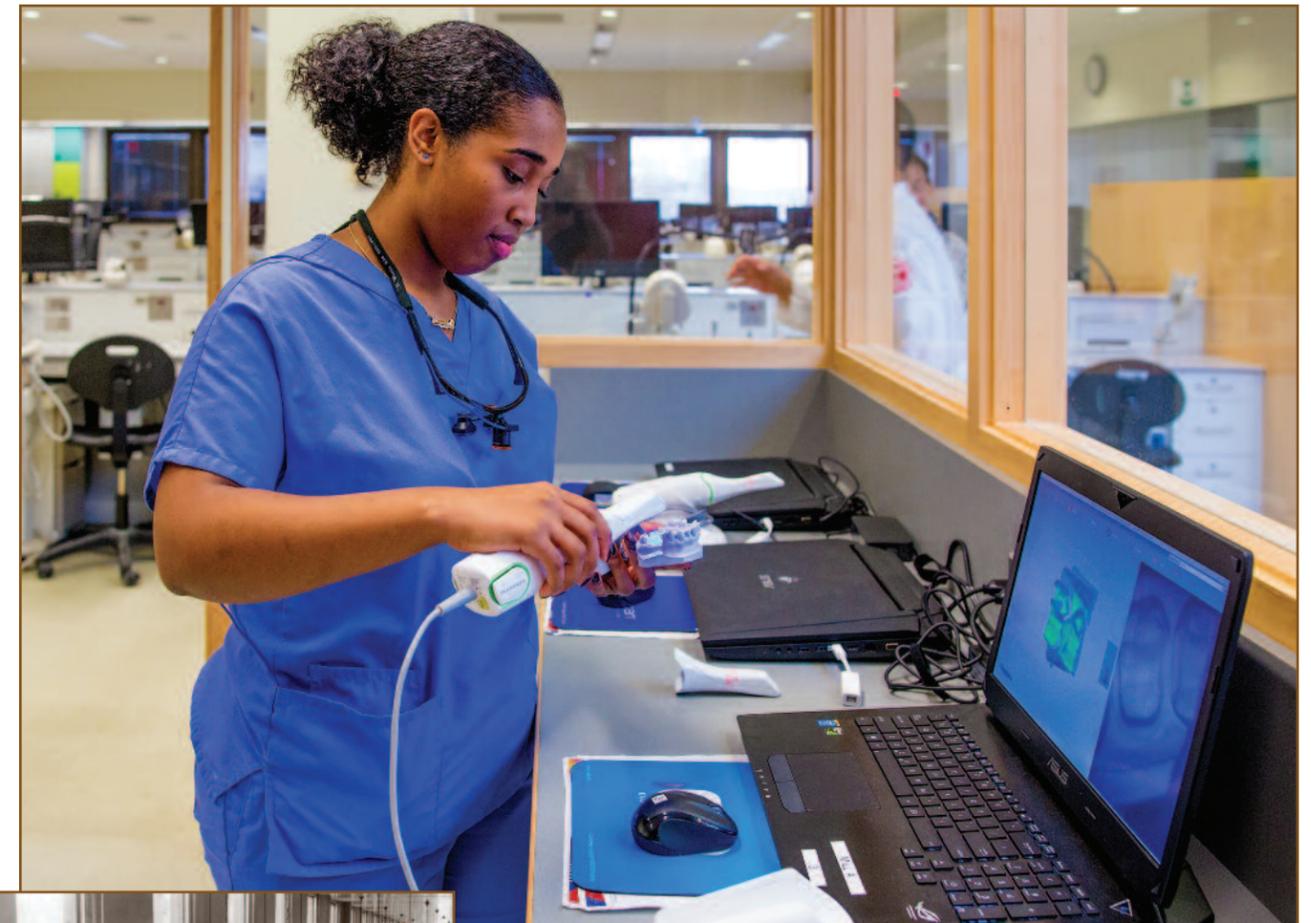
I hope that as you read this issue of the *Diamond*, you'll feel PROUD of our rich and long history and how we're shaping the future of dental education and practice. Then I hope you'll support the dental school as a contributor, faculty or alumna/alumnus grateful for our new directions.

To discuss how you may be able to help our dental school, please email me at [ismailai@temple.edu](mailto:ismailai@temple.edu) or call me at 215-707-2799.

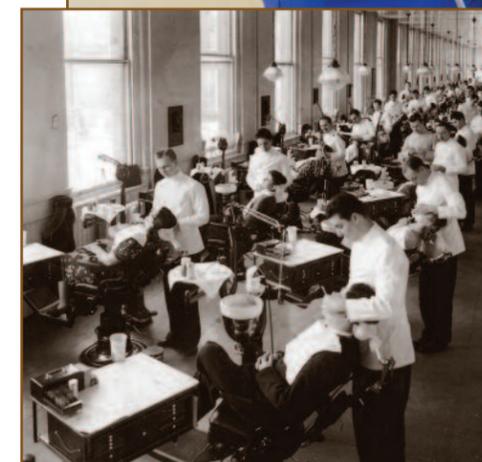
### Digital dental: the basics

Because digital dental technology is developing so quickly, understanding it can be a challenge and implementing it even more challenging. However, components of the latest advances can generally be divided into four areas:

- Laser intraoral scanners
- 3D milling and printing devices and materials
- Patient and office management systems
- Digital lab solutions



Jessica Williams, Class of 2017



#### Then and Now

*With their chairs placed next to windows for natural light, early dentists had only rudimentary ways of seeing into a patient's mouth. Today, dental scanners can easily, comfortably and accurately pick up the smallest detail, even at the back of the mouth.*

**A**udrey Lane, a Temple dental patient since 2000, sat in the clinic chair waiting for her new crown. She was the focus of more than the usual number of clinicians. The day, March 2, was slated for demonstrating digital dentistry procedures, and a small group of students and faculty surrounded her. She opened her mouth for the 3D scanner, happy not to have impression material on her teeth.

As Audrey's prepared tooth site and adjacent areas showed up on the monitor, fourth-year dental student Umme Hafeez rotated images for additional views. Then, quickly finishing her final design, Hafeez saved the images to a disk, which was taken upstairs to the preclinical lab for milling. In less than 15 minutes, Audrey's crown was ready for placement. She would have gone home after just half an hour, but noting the color wasn't quite right, Hafeez quickly had another crown milled by the lab.

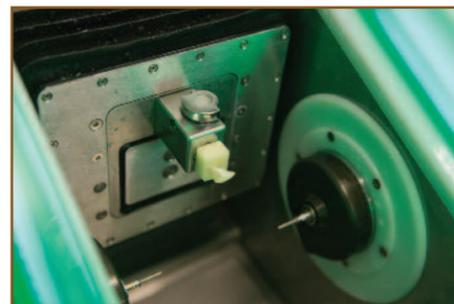


Thrilled with the result, Audrey asked, "Can you tell which tooth it is?" In every way, the crown looked completely natural. "This is amazing," she said later, comparing the experience to previous crown work. "No pain, no waiting for hours. I can go about my business and could even bite an apple today."

While increasing comfort and convenience, digital dentistry should also decrease cost. Advances in technology mean efficiency throughout the process—in the chair and at the milling lab. Also, if something happens to a crown or bridge, patients can call and easily get a new one. That's because the digitized image is saved in an easily accessible database.

#### Now is digital dentistry's big moment

We know the basic technology. Scan something, manipulate the image, save the design to disk, then pop that disk into another computer that prompts final output from yet another machine. It all sounds fairly straightforward, and it is. In fact, digital capability in dentistry has been around since the 1980s.



Top: Audrey admires her new smile in progress. Above, a view of the milling machine, outside and in.

But now is digital dentistry's big moment. Enough technological advances have occurred in the past few decades that the way patients are treated is about to dramatically change. Putting the breadth of change in perspective, Dr. Aaron Segal, associate professor clinician scholar in restorative dentistry, said, "In our students' lifetime, digital dentistry is the only thing they'll use."

Added Dr. Robert Gottlander, chief marketing officer of Henry Schein's Global Dental Group, "Now is the time to treat patients in a different way. We can improve quality, see what our eyes aren't seeing, show patients the images and use trained team members such as hygienists and assistants to work with the dentist. And with this program Temple is in a leadership position, in the forefront globally. Most dental schools are just experimenting."

Asked why Kornberg is taking this dramatic step, Dean Ismail pointed to the school's mission. "Our legacy is to provide care to those in need. This technology will have a life-changing impact on those we serve. Crowns and bridges are especially needed with low-income populations. Eventually, we'll do dentures, too. With no noise, no shaking, more comfort and efficiency, we'll be able to treat more people and pass on the cost savings to them."

In fact, Kornberg's clinic visits have increased 20 percent during the last three years. Anxious to increase patients' access to high-end procedures, the dean said the result will also benefit the school. Foreseeing a bank of images, he explains, "We'll have a baseline scan of every patient, and that will create a database to teach and learn from."

#### Henry Schein's relationship

Schein's relationship with the dental school is longstanding. "We have long-term trust built over several decades," said the dean. "That's one reason Schein chose Kornberg for the pilot program. Another is the school's legacy of cutting-edge dentistry. Still another is the faculty." According to the dean, "They want to do it. They want to teach it."

But for Schein, "It's not about providing free equipment to the school." Explained Gottlander, "The real trick is making the program work, tracking what goes on, seeing how to improve. It's about providing training, organization, leadership and support."

For Audrey, and the five other patients who benefited from digital dentistry on March 2, their glimpse of a new era was astonishing and "awesome."



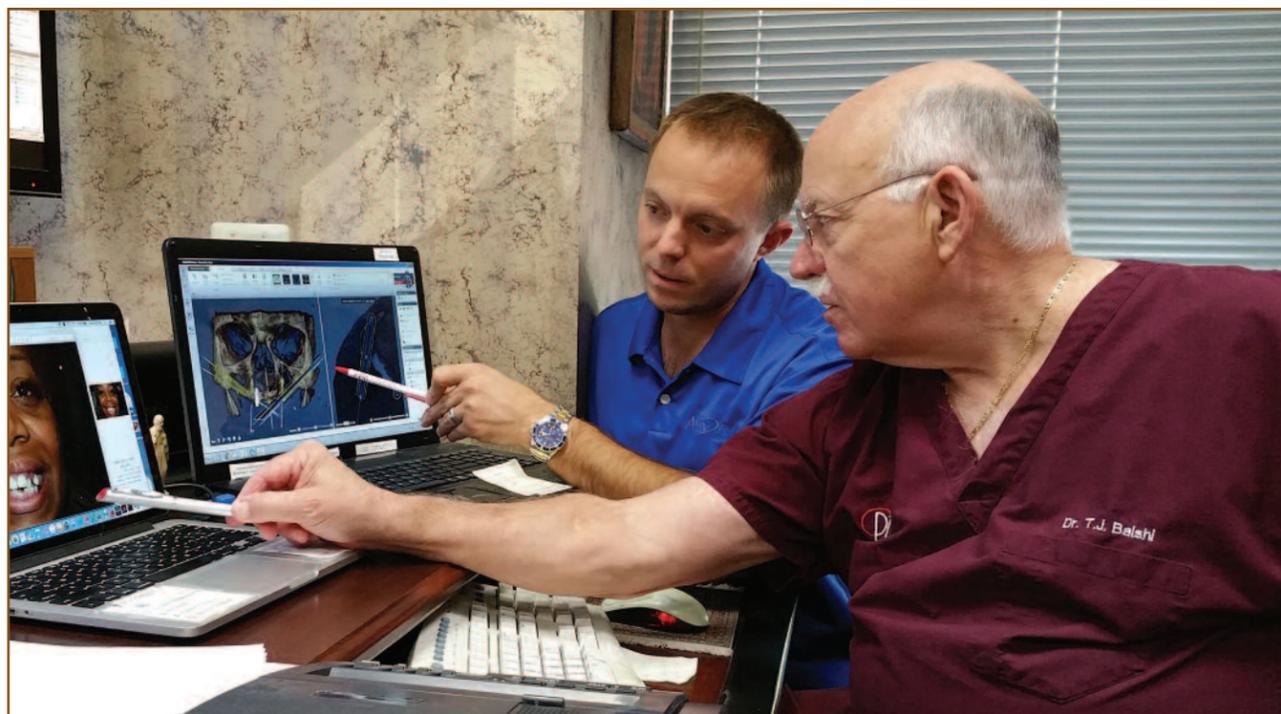
Top: Digital dentistry in action Above: Henry Schein's Dr. Robert Gottlander, back right, confers with (clockwise from front right) Dean Amid Ismail, and faculty members Dr. Aaron Segal and Dr. Mark Meraner, during the launch of the Henry Schein Digital Dentistry program.

#### The Differences Are Astounding

Only 30 minutes in the chair for a new crown? And that includes 15 minutes of milling time? Digital dentistry has certainly come of age. In the forefront nationally and even globally among dental schools teaching the procedures is Kornberg. Helping with equipment—10 scanners and three milling machines—plus training and support for a pilot program, launched March 2, is Henry Schein, Inc.

Three practitioners share their experience and insights

## Embracing advanced, efficient technology



Thomas J. Balshi, DDS, PhD, FACP, '72, develops a strategic digital plan with Stephen F. Balshi, biomedical engineer. Dr. Balshi, founder of Pi Dental Center in Fort Washington, Pa., provides patients with monolithic, fully milled digital dentures as well as with implant-supported, fixed prostheses.

Remember *Jurassic Park*?" asks Dr. Thomas Balshi. "When Billy takes Dr. Grant into the tent to show him the rapid prototyper? It's stereolithography, printing 3D from layers of 2D images. And it's what we can do with digital dentistry."

For instance, 2D data files can be put into other software to see the 3D surgical plan. That's then the basis for templates to show where the implants and teeth will go. "It's similar to the stencils that kids use to draw," says Balshi. And it's all part of today's CAD/CAM restorations, which Balshi assures are better fitting, more durable and more natural looking than ever before.

*"The future will be a unified workflow... It will just be more elegant and streamlined."*

— Dr. Thomas J. Balshi

He uses the technology in several ways: for patients who would normally need six to eight implants and now can have four that secure a digital dental prosthesis—or for a permanent digital denture anchored with four to six implants. In either case, the reconstruction uses a robotically milled prosthesis on a titanium-milled framework. He emphasizes that the proprietary surgical procedure, which he developed with Global Dental Science, is faster and simpler than others and is streamlined with the patient's digital records to provide permanent digital records for future "teeth forever."

For a digital dental prosthesis, "It's an economic shift in treatment protocol," says Balshi, "since there are fewer implants." For digital dentures, the process can take what Balshi calls "a failed situation" and turn it into "what looks normal again."

A case in point is Patty Jackson, WDAS radio's R&B soul "mid-day maven" well known in Philadelphia

and 16 other U.S. markets. She came to Balshi for treatment and then went on TV with her story because her extreme condition of periodontically hopeless teeth and bone atrophy could show others what is now possible in a few reconstruction visits.

A video series shows Balshi first stepping in with a day of molding, imaging and measuring after her primary dentist did extractions. That prep work helps plan surgery for her next visit when Balshi and his team remove the remaining teeth before putting in implants and screwing them to a temporary digital denture. Later, when the permanent denture is built, he uses an in-house scanning lab and an Arizona-based lab to produce robotically milled teeth in dental ceramic for the top and in a stronger acrylic for the bottom. Then, artful coloring and carved veining go through crystallization to make the denture look real. Once secured in place, the set delights Jackson "with a new mouth" that "looks beautiful!"

### Minimally invasive procedure

Clearly, the benefits of this surgery are a boon to such patients. Despite the severity of their bone atrophy, they usually undergo a single surgical procedure that is minimally invasive, avoiding bone grafting. "It's precise just like a Swiss watch," Balshi says. "The fit is excellent due to robotic milling of an entire piece rather than individual teeth. Also, the digital denture is more comfortable than standard dentures, 50 times stronger and resists bacteria due to the nonporous, bio-hygienic material."

Explaining further, he says, "The patient's anatomy determines the distribution of implants in the arch. For instance, the sinuses may dictate implant positional angulation."

He adds: "We can be an instant orthodontist, morphing teeth, making them longer or thinner or rounder, positioning them correctly on the arch form."

This kind of expedited care that provides excellent results with increased chairside comfort is the backbone of digital prosthetic dentistry. Balshi agrees

with others using the technology who say it achieves high patient satisfaction because patients spend less time with the dentist and can approve a design on the computer screen before milling. It is rewarding for dentists, too, because what used to take 100 hours of labor can now be done at the push of a button.

What does he see for the future? "Robotics will be playing a greater role," he says. Also, he believes that today's dental students—familiar with manipulating images in 3D—will make an easy lateral shift to the new technology. That's important because he would like students "to pay close attention to current technology trends as they will be critical for establishing a successful dental practice."

In addition, he looks forward to open platforms and shared files as applications talk to each other, with data from one program connecting with another and with one business enterprise linking to another. "The future will be a unified workflow. There were too many closed platforms before. It will just be more elegant and streamlined."

### Watch the videos!



See radio personality Patty Jackson's journey to health and perfect teeth. Fox News has documented Dr. Balshi's complex reconstruction in a series of three videos:  
[www.youtube.com/watch?v=E3qeJZnUuA0](http://www.youtube.com/watch?v=E3qeJZnUuA0)  
[www.youtube.com/watch?v=78t67MRUTtQ](http://www.youtube.com/watch?v=78t67MRUTtQ)  
[www.youtube.com/watch?v=FUiDtk6Ing8](http://www.youtube.com/watch?v=FUiDtk6Ing8)

Answering the question:

## What's needed as digital dentistry evolves?



Robert M. Bentz, DMD, FACP, '93, has been working with digital dentistry for about a decade, and uses it every day.

She had just arrived at college as a freshman. Sitting on her dorm room bed, she smiled, and her mother captured the big wide grin with a quick photo. Then she sent it immediately to Dr. Robert M. Bentz as a breakthrough moment to remember—because digital dentistry had turned her daughter's life around.

Recalling the recent rehabilitation, Bentz describes the situation. When the 17-year-old first came to him, she presented with the dentition of a 10-year-old. She was congenitally missing all her permanent teeth, and the primary teeth she did have were starting to come out. So she was very self-conscious and worried about fitting in at school. She had even considered not going to college. But with digitally designed prostheses, she was able to attain the bright smile she always wanted.

Just as dramatic was his treatment for a seven-year-old boy with ectodermal dysplasia. Using digital dentistry, Bentz fabricated a denture that can promptly be replaced if the boy breaks or loses it. Because a digital file is recorded, the only chair time required will be to deliver the new denture. And "as he grows, we'll rescan to create new dentures that can be adapted to grow with him."

Years earlier, when digital dentistry was only beginning to develop, Bentz worked on an 86-year-old man known to be one of the oldest ectodermal dysplasia patients in the U.S. Since then, Bentz has experienced firsthand how precise the newest digital technology has become. "It allows advanced solutions that were not available to us in predigital dentistry," he says.

He explains: "We get predictable results. When a patient comes in, we combine diagnostic records with converted DICOM files to create a 3D digital representation of the patient's relevant anatomy.

With this, we can then digitally design the prosthesis and virtually run through our planned surgery right on the computer. We are creating and perfecting the design before the patient is even seen in the office for surgery." What helps with accuracy, he says, are cone-beam computed tomography and computer-aided guides for implant surgery. Timing, too, is improved. With a commercial lab on-site, he achieves quick turnaround for these digital designs.

With half his time spent on the computer designing the prosthesis and the other half spent completing the procedure, Bentz is confident that each design for a crown, bridge, inlay, or any prosthesis will work with the stresses and load forces it will endure. He makes sure the design meets the digital concepts as well as the patient's needs.

"Even with advanced technology and biomedical engineering to lay the foundation, there is still a high degree of art in dentistry," says Bentz. "We have to remember that the engineers aren't dentists. So as the practitioner, we must create quality control to effectively guide the technology offered by our engineers."

### Technician training

In today's world of digital dentistry, Bentz recognizes the need for more lab technician training. "Dentists are just too busy to do it all," he says. In fact, he thinks many are overwhelmed with the

### Bringing Dentistry to the Arts

Dean Amid Ismail also recognized the need for qualified lab technicians to keep up with the production demands of the digital age and so proposed an experimental partnership with Temple's Tyler School of Arts. He sent a recent Tyler graduate, who studied CAD/CAM jewelry design, to a large commercial lab for training, and now has brought him to Kornberg's lab for a year to see if this might be the beginning of a beautiful collaboration between the arts...and the art of dentistry.

*"We are creating and perfecting the design before the patient is even seen in the office for surgery."*

— Dr. Robert M. Bentz

thought of adding digital dentistry to the workload they already incur. So he asks, "Who is training the technicians?" This question, once answered, "will help create a functional workflow in an office that already implements digital dentistry," he predicts. "It also will encourage the reluctant dentist to put digital dentistry into practice."

Another important point, he believes, is to take your time when working digitally. "Digital dentistry started blowing the doors off impression dentistry about a year ago. Going through the growing pains is one of the biggest hurdles. New products are coming out, and they're the future. But nothing is easy when you first use it. Procedures take longer until you master them, and balancing the training with patient time can be a frustrating task, especially when you are trying to run a successful business."

He also cautions that dental students must understand and be able to implement core dental concepts. They must recognize the importance of using their minds first before the computer does the work. "We can't let go of the analytical thinking."

Despite these issues, Bentz says, "The future is exciting." Enthusiastic about what's coming next, he sees a solid movement toward eliminating traditional impressions and creating cleaner, more precise outcomes in a more efficient manner that will minimize human error. "I can't wait to find out where we're going with this vast world of digital dentistry."



## An exciting time to be a dentist

### See the comfort and convenience of a digital procedure

Dr. Kaye goes step by step through a restoration at: [www.youtube.com/watch?v=6r8d8GmEEWU](http://www.youtube.com/watch?v=6r8d8GmEEWU)

**D**r. Gary Kaye is plugged in—with his website, blog, interviews, videos, articles and perhaps most importantly, with digital dentistry, one of the prime drivers of it all. Kaye's practice is general dentistry, and early on, he saw the advantages and potential of CAD/CAM for restorations. In fact, that was 20 years ago. An early adopter? No question.

Ask Kaye where he was with the technology two decades ago and where he is now, and he describes a continuum of advances. At first, inefficiencies with two different, unconnected systems for digital X-rays and CAD/CAM were a frustration. Complex restorations, too, had issues. Although much faster than before, they were still a lengthy process, taking two weeks to get mailed back from the lab.

And now? All his digital and office technology is integrated. And with digital intraoral scanning, a lab technician starts designing a crown before the pa-

tient even leaves the office. Then the outside lab ships back the restoration overnight, or a few days later for complex cases. Maybe best of all for patients, they avoid a mouthful of impression material. As a result, Kaye's high-volume practice attracts people from all over the world.

"Many patients travel to us," he explains, "and time is a challenge for them. Before, they needed multiple visits. Now, a lot can be accomplished in one visit."

The efficiency of a quick restoration can be dramatic. "Recently, a bride-to-be broke two front teeth just a week before her wedding. In one visit we took care of it. And we did it without any special arrangements with the lab."

In another case, a patient undergoing cancer treatment broke her tooth. Not wanting to compromise her medical care, Kaye was able to give her a crown in one day.

With almost 100 percent of his impressions done digitally, Kaye's practice is growing. In the past 10 years, he is up from four chairs to 11 and has merged with several practices. Word of mouth, not advertising, helps with marketing. The reason: Patient satisfaction leads to profitability. So, too, do cost savings in materials and lab handling and almost no remakes due to scan accuracy.

"Digital is how we practice," he emphasizes. "Just like film went away for cameras, film is going away for dentistry." He continues, "The tasks we do are more predictable. We can see immediately if some-

thing needs to change. Such accuracy means we'll be doing full dentures, not just partials, in a year."

### Getting patients engaged

"The trick is to get them engaged," he says. "Engaged patients will take better care of themselves. They will floss and brush their teeth." Just as valuable is the digital record that gives Kaye a visual history of patient changes over time. Digital technology also means patients get more involved in the process. "They can see a 3D image on the screen, understand the changes and know what's going on with the repair."

Are today's dental students ready for these advances? "Yes!" is Kaye's resounding answer. "They're most enthusiastic about digital. They really endorse it because they've been exposed to it their whole lives. They've seen technological advances in everyday life and think it is how it should be done."

For those already in practice, Kaye realizes that the changes are more difficult. That's why he creates a 100-day road map of implementation for each new technology introduced in his office. It's also why he was at Kornberg in August to give a lecture and then gave intensive hands-on training to faculty at his digital New York City teaching center. In September, he was back again with a lecture series.

"Temple is ahead of the curve," he notes. "Temple students will be very well prepared going forward."

Commenting on where dentists are today, he adds, "Digital technology exceeds our expectations. Our options are expanding. There are no limitations. There's a boat, and it's time to get on the boat."

### Just two reasons why Dr. Kaye uses digital dentistry

- "When I magnify digital images on a screen, especially the 3D cone-beam images, to show a patient, it is mind blowing. With 3D we can pick up pathologies that would not be seen any other way. We can tell a patient with significant certainty what is going on. It is a game changer, and anyone who is using it would not work without it."
- "Patients ask about same-day restorations. They want them. Chairside, same-day CAD/CAM alone has improved profitability to our bottom line in the last three years. We are doing the same thing in half the number of appointments, so it has to have a positive effect!"

## New Partnership with GPHA, Inc. to Integrate Medical and Dental Care



Top, celebrating the grand opening; above, Pa. Governor Tom Wolf speaks at the ceremony.

In early 2016, Dean Amid Ismail of Temple University Kornberg School of Dentistry and Mr. Ronald Heigler, CEO and executive director of Greater Philadelphia Health Action (GPHA), Inc., took the first steps toward establishing a transformative new partnership to integrate medical and dental care. That vision was realized with the opening of the GPHA, Inc., Medical Suite at Temple University Kornberg School of Dentistry on June 2, 2016. The occasion drew many notable guests, including state Senators Shirley Kitchen and Christine Tartaglione, and Pennsylvania Governor Tom Wolf—perhaps the first time a sitting governor has visited the school since Governor Curtin visited Dean McQuillen around 1863.

“The patients we see in the clinic frequently have complex medical

needs,” says Dean Ismail. “Too often, we were unable to immediately provide the dental care they needed because of underlying medical issues. To be a true healthcare home, we must be able to offer patients integrated, comprehensive treatment.”

GPHA is an ideal partner in this pursuit. For over 45 years, GPHA has provided an array of medical, behavioral health, dental and child development services to underserved communities at a dozen locations. Like their other locations, GPHA’s medical suite at Temple Dental is a federally qualified health center (FQHC), and offers both treatment and preventative healthcare services.

“It is a transformative and unique partnership that increases the level of care we are able to provide pa-

tients and gives our students valuable experiences and perspectives on integrated care delivery,” says Dean Ismail.

Governor Wolf congratulated the partners in his remarks at the grand opening ceremony, and commented that “this type of collaboration represents the future of healthcare.”

Sen. Kitchen agreed, noting that “Here, the doctor and the dentist work together. No one else is doing that.”



Did you know that there are only a handful of board-certified dental radiologists in the entire Commonwealth of Pennsylvania? And two of them are faculty members at Temple Dental.

Dr. Mustafa Badi and Dr. Jie Yang lead the Diagnostic Imaging and Interpretation Center (DIIC) at the Oral and Maxillofacial Radiology Clinic here at the Kornberg School of Dentistry. They are both internationally recognized experts in their field, and both hold leadership positions with the International Association of Dento-Maxillo-Facial Radiology. Dr. Yang is the president-elect, and Dr. Badi, the vice-president designate. Their combined expertise, along with the advanced technology available at the DIIC, is now available to oral healthcare providers in our region and their patients.

Utilizing cutting-edge 3D cone-beam CT (CBCT or Dental CT) technology with the field of view and resolution selection perfectly calibrated to meet individual diagnostic imaging needs, imaging services offered at the DIIC include: dental implant planning, inferior

## Introducing the Diagnostic Imaging and Interpretation Center at the Oral and Maxillofacial Radiology Clinic



alveolar nerve tracing, maxillofacial pathology evaluation, paranasal sinus evaluation, impacted teeth evaluation, orthodontic-orthognathic series, TMJ imaging and evaluation, and evaluation of endodontic pathology and variations. The Center also offers 2D imaging, including intraoral series, panoramic imaging and AP and lateral cephalometry.

Advanced imaging reveals more than just the dentition, so while the initial order may have been for implant planning or TMJ imaging, Dr. Badi and Dr. Yang also have specialized training to make sure that incidental findings are addressed with both patients and referring dentists. They spend time with each patient, going over results, answering questions and responding to their concerns. Referring providers receive a CD with the CBCT volume data and separate DICOM files, in addition to a detailed radiology report.

Learn more at [dentistry.temple.edu/cbct](http://dentistry.temple.edu/cbct), or call the Diagnostic Imaging and Interpretation Center today at 215-707-2200.

## OUR NEWEST FACULTY LEADERS:

FURTHERING TEMPLE'S VISION FOR DENTAL EDUCATION

### Dr. Nina Ghobadi

Clinical Associate Professor, Restorative; Program Director, Advanced Education in General Dentistry (AEGD); Assistant Dean for Advanced Clinical Care



Dr. Ghobadi earned her DDS from the University of Michigan, School of Dental Medicine. She joins Temple from Albert Einstein Medical Center, where as program director she ran one of the most highly regarded General Practice Residency (GPR) programs in the country, known for its rigorous curriculum and clinical experiences. She successfully guided Einstein's GPR program through the accreditation process, and so is prepared to assist Temple in this highly important exercise. She was the lead practitioner in Einstein's highly profitable faculty dental practice, which she established to meet the needs of an underserved community. She has an extensive network of contacts with the local private dental community, which will be an enormous asset in recruiting practicing dentists as adjunct faculty for the AEGD program and other areas in the school.

“Dr. Ghobadi brings to Temple Dental extensive clinical and organizational experience in managing general dentistry residency programs. She will be instrumental in moving our AEGD program to the next phase of national and international leadership in general dentists' advanced education.”

— Dean Amid I. Ismail



### Dr. Judith McKain-Rubin

Clinical Assistant Professor, Restorative; Director, Faculty Dental Practice

Dr. Rubin earned her DMD from the School of Dental Medicine of the University of Pennsylvania. After graduating, she completed a general practice residency at the Philadelphia Veterans Administration Medical Center. She joins Temple from the Lebanon Veterans Administration Medical Center in Lebanon, Pennsylvania, where she rose from staff dentist to chief of dentistry. She successfully managed the center's large dental team, including general dentists, specialists, expanded function dental assistants, dental assistants, hygienists and administrative staff. Under her leadership, her team continuously met and exceeded the Veterans Administration's quality standards.

“Dr. Rubin has extensive experience working with veterans and elderly patients. During her interviews, faculty commented on her in-depth knowledge of different dentistry areas. She will lead our faculty practice to create a welcoming and professional environment for Temple University employees and others who need or desire to seek care at the dental school.”

— Dean Amid I. Ismail



**Dr. Carmen Doumit**  
Clinical Assistant Professor, Orthodontics

Dr. Doumit received her dental degree from Lebanese University's School of Dental Medicine, and earned her master of science in dentistry and her certificate of advanced graduate studies in orthodontics and dentofacial orthopedics from the Henry M. Goldman School of Dental Medicine at Boston University. In addition to assisting in the training of our orthodontic residents, Dr. Doumit will help the department in decreasing its six-month waiting list of new patients seeking orthodontic care by directly providing services in expanded clinic hours. Additionally, we will strengthen our predoctoral training in orthodontics by having these students work with Dr. Doumit in a new experiential learning program.



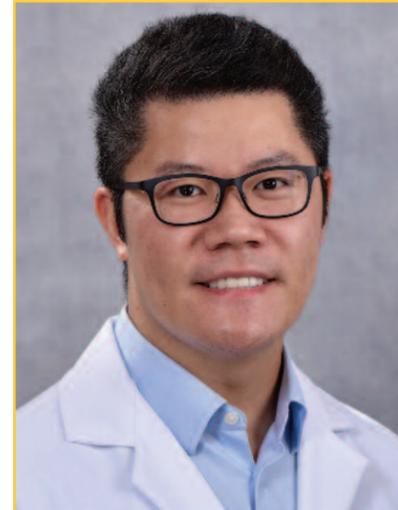
**Dr. Farah Haroon**  
Clinical Assistant Professor, Restorative

Dr. Haroon received her DDS from the UCLA School of Dentistry. She comes to Temple after completing a two-year general practice residency at the Albert Einstein Medical Center Maxwell S. Fogel Department of Dental Medicine.



**Dr. Stanley J. Heleniak**  
Clinical Assistant Professor, Department of Oral and Maxillofacial Pathology, Medicine and Surgery

Dr. Heleniak is an alumnus of the Kornberg School of Dentistry and an experienced dentist anesthesiologist with more than 25 years' experience. His appointment is essential to the opening and operation of the school's new Sedation Center. The Temple Dental Sedation Center is an important strategic initiative for the school that will allow us to treat pediatric, special needs and complex periodontal and oral surgery patients under appropriate anesthesia. Previously, we had to transfer such patients to a hospital setting. Keeping these patients within the school will also significantly increase educational opportunities for our students, who will be able to witness and assist in these more advanced cases and have a more in-depth exposure to the various anesthesia protocols.



**Dr. Austin Leong**  
Clinical Assistant Professor, Restorative

Dr. Leong earned his DDS from Stony Brook University School of Medicine, his certificate in prosthodontics from the University of North Carolina and his certificate in maxillofacial prosthetics from Memorial Sloan Kettering Cancer Center.



**Dr. Nezar Noor Al-Hebshi**  
Research Associate Professor, Pediatric Dentistry and Community Oral Health Sciences

Most recently an associate professor at Jazan University in the Kingdom of Saudi Arabia, Dr. Al-Hebshi holds a bachelor of dental science degree from the University of Science and Technology in Sana'a, Yemen, and his PhD in oral microbiology from the University of Bergen (Norway). He has built a promising record of research collaboration, course directorship and teaching, student research mentoring, and academic and professional service. He is the first author on 15 peer-reviewed published papers in the last 10 years, and coauthor of nine additional papers. He has presented his work at several international conferences in the Middle East, Africa, Europe and the United States.

**“New faculty represent the hope for our future. They will set the stage for a new era at Temple Dental, building on the expertise of our current faculty in education and clinical care.”**

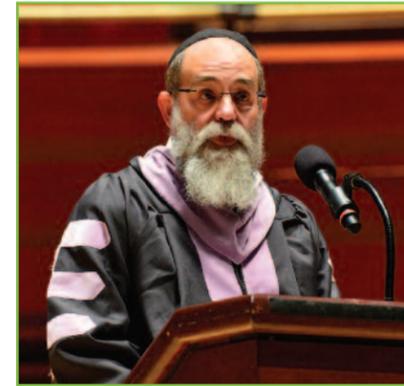
— Dean Amid I. Ismail

## 2016 White Coat Ceremony



The White Coat Ceremony is a moving and significant event welcoming the newest clinicians to practical study. On Friday, April 29, the Kornberg Class of 2018 marked their transition from preclinical lab work to clinical experience with patients when they received their white coats, then signed and recited the Dentist's Pledge.

## 2016 Temple Dental Graduation



Keynote speaker Rabbi Kalman Samuels addresses the graduates.



Valedictorian Jillian Spring, DEN '16

On Friday, May 13, the Kornberg community came together to celebrate the accomplishments of the Class of 2016. Temple Dental grads and their loved ones packed the Kimmel Center's Verizon Hall. Rabbi Kalman Samuels, founder and chairman of SHALVA (a Jerusalem-based organization that supports individuals with special needs and their families), gave an inspiring keynote address.



## Compelled To Serve: Fourth-Year Dental Student Paige Epps Shares Passion for Community Dentistry



Paige Epps, Class of 2017

**A** native of Atlanta, Georgia, Paige Epps knew she wanted to be a dentist from a very young age. "I would do all my school projects on teeth and plaque," she explained. "I don't even know how I knew what plaque was at the time!"

In high school, Paige took a dental assisting course through a local trade school before earning her undergraduate degree in math from Spelman College. Throughout high school and college, she gained dental experience through shadowing various dentists and participating in Howard University's Summer Medical and Dental Education Program.

With a deep interest in research, Paige spent a year working at Mount Sinai Hospital in New York

City as a biomedical research associate before applying to dental school.

"I applied to Temple Dental and as soon as I came to Philadelphia for my interview, I knew this was where I wanted to be," Paige said. "Temple felt more like a community than other schools I visited, and I was attracted to the population the dental school serves."

Paige raves about her experience at Temple Dental, noting that she immediately felt welcomed when she visited campus.

"Dental school is extremely demanding, but I've enjoyed my time here. You get to spend a lot of time getting to know your classmates," she said.

Throughout her tenure at Temple Dental, Paige has kept busy with internships, research projects, leadership roles and mission trips. She currently serves as the vice president of the Student National Dental Association and represented Temple at the American Dental Education Association (ADEA) conference last March, as part of the Student Diversity Leadership Program.

When the program ended, Paige applied for a research internship at ADEA's headquarters in Washington, D.C. She won the internship and spent two weeks at the

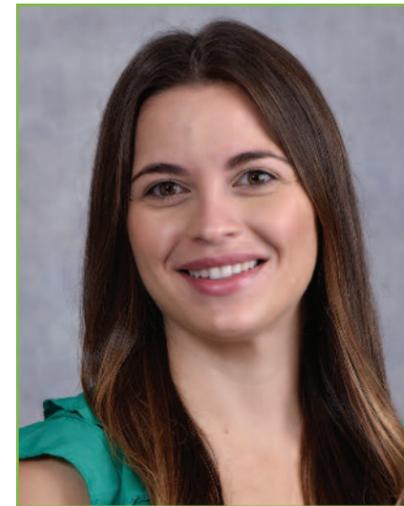
association's headquarters networking and interviewing key leaders within the organization. Now, she's working on a qualitative research study on leadership development, diversity and inclusion issues in dental schools.

Paige recently returned from a mission trip to Jamaica where she spent nine days with fellow dental students in Negril and surrounding rural areas treating 800 patients who don't typically have access to dental care." In Jamaica, almost everyone works in hospitality and they want to have a nice smile. It was really fulfilling to provide free care and help them achieve that goal," Paige said. She is gearing up for another service trip to the Dominican Republic later this fall.

Now a fourth-year dental student, Paige spends her days in the clinic seeing patients. She'll graduate in May and hopes to start working immediately in community dentistry. "I've always been interested in working with minorities and underserved populations," said Paige. "I feel compelled to serve."

**“Throughout her tenure at Temple Dental, Paige has kept busy with internships, research projects, leadership roles and mission trips.”**

## From Puerto Rico to Pennsylvania: Dr. Xiomara Y. Rivera-Hernández's Dental Journey



Xiomara Y. Rivera-Hernández, Endodontics, Class of 2017

**X**iomara Y. Rivera-Hernández, found an early passion for science as a high school student in Dorado, Puerto Rico.

"There are no medical professionals or dentists in my family," Xiomara explained. "In high school, I had the opportunity to visit a dental school and spent time with the students there. It was then that I realized I wanted to become a dentist."

Xiomara earned her dental degree from the University of Puerto Rico, but left soon after to explore new professional and educational experiences. She joined a general practice residency program in New York and later applied to Temple Dental's two-year graduate specialty program in endodontology.

"Before choosing Temple, I visited and interviewed with many different residency programs," Xiomara shared. She says she was impressed by Temple Dental's faculty, technology and newly renovated clinical space.

"Digital technology has revolutionized dentistry in many aspects," she said. "It has made it easier for us as healthcare providers to be more organized and efficient, but most importantly, it has allowed us to provide patients with better quality care by making diagnoses and treatment planning more accurate."

Xiomara describes her residency at Temple Dental as enriching. "I believe the program has a lot of knowledge to offer since the faculty and residents are involved in research in the latest endodontic topics, such as regeneration. I chose Temple's endodontic program because of its prestige in the dental community," said Xiomara.

Life as a resident is very busy. "My daily schedule is divided into theoretical and clinical components. The program is heavy on didactics, and we spend a lot of time discussing current and classical literature related to the field, while also treating advanced endodontic cases in the clinic," she explained.

Xiomara says Temple Dental has prepared her to launch her own practice upon completion of her residency.

Xiomara also enjoys the camaraderie she has found at Temple.

"The school is overwhelmingly welcoming to students from many different ethnicities in a way that makes you feel at home," she said. "This is really important for people like me who have left their family behind; it is good to know that there is always someone around who you can count on and reach out to."

Xiomara loves the field of dentistry because she appreciates the wide range of opportunities offered by the profession and enjoys the hands-on aspect of connecting and interacting with patients to meet their needs.

**“I believe the program has a lot of knowledge to offer since the faculty and residents are involved in research in the latest endodontic topics, such as regeneration.”**

## Learning Customization and Efficiency to Enhance Patient Experience: Dr. Kaitlyn Schiels



*Dr. Kaitlyn Schiels, Class of 2017, appreciates the seamless integration of newest technologies into the Kornberg curriculum—and the guidance and education that accompanies them.*

She's an ortho resident, and she's fully onboard with digital dentistry, thanks to her Kornberg training. "I absolutely feel prepared," says Dr. Kaitlyn Schiels. "Not only for the technologies already in place when I started, but for the willingness of the program to continually evolve and adapt."

In fact, within two weeks of her residency, Schiels was using a scanner to send her patient's digital record for aligner fabrication. "Using this scan as a template," she explains, "enabled 3D manipulation of the dentition for more precise treatment."

Even more recently, she was introduced to technology that allows customization of the bracket for each tooth. After two training sessions and more expected, she has learned how to digitally manipulate pre- and post-treatment tooth movements to control torque and tip.

Robots, too, are part of her training; they are used in the ortho clinic to precisely bend archwires. Other clinic technology includes a unit that takes 3D images of facial soft tissue before and after treatment to understand facial and profile changes. In addition, cone-beam CT (CBCT) images help exactly locate impacted teeth.

Such customization and efficiency can only enhance the patient experience, she believes. And that makes the future of orthodontics

"most exciting." As 3D printers continue to improve, she looks for in-house fabrication of aligners and retainers to be "a more tangible reality." That will "eradicate the need to store models and shorten turnaround time on appliances." She also anticipates that prediction software will provide a visual timeline for patients, educating and informing them of anticipated treatment. In addition, she sees scanners not only replacing impressions but, with constantly evolving photographic capabilities, replacing intraoral photos.

"I envision incorporating digital dentistry into every facet of my practice," she says. "Today's generation is accustomed to rapid information acquisition with just the touch of their fingers. Why should the orthodontic experience be any different?"

### Technology enhances collaborative treatment planning

Schiels remembers a recent case, a young adult with almost all teeth severely eroded. Previously, the complex case would have been mounted on an articulator and a model surgery completed. But with recent advances, the orthodontic and surgical team members didn't even have to be in the same room. They used the patient's CBCT scans and a virtual treatment outcome simulator to determine approaches and outcomes, such as the angle, size and shape of customized plates.

## NEW PROGRAMS

### A Global Center for Advanced Dental Education

Temple University Kornberg School of Dentistry Launches a Two-Year Program for Experienced Dentists from International Schools

Temple University Kornberg School of Dentistry has received approval from the Commission on Dental Accreditation (CODA) to start a new International Dentists Program. Launched earlier this year, the 24-month program accepts experienced dentists who graduated from international dental schools. This groundbreaking program operates in a comprehensive general dentistry clinic that simulates real-life private practice.

Applicants must also have 1) graduated from a CODA-accredited residency or postgraduate program, or a non-CODA graduate program in a peer school; 2) at least 1 year of clinical experience after their first dental degree; 3) passed Part I and Part II of the National Dental Examination Board before matriculation; and 4) a TOEFL score of 100 or higher, or equivalent English language test score.

Preference will be given to applicants with advanced clinical experience who meet the standards of competency set for students moving into the third year

of study at Temple University Kornberg School of Dentistry.

Admission into the program will be based on the criteria above, as well as on assessment of preclinical skills, communication skills and an oral examination conducted by the program's search committee. Temple University Kornberg School of Dentistry strongly values ethical and professional conduct and will only consider applicants who exhibit an evident desire to learn and innovate.

Applications should be submitted to the American Dental Education Association (ADEA) through the Centralized Application for Advanced Placement for International Dentists (CAAPID), which can be found at [www.adea.org/CAAPIDapp](http://www.adea.org/CAAPIDapp).

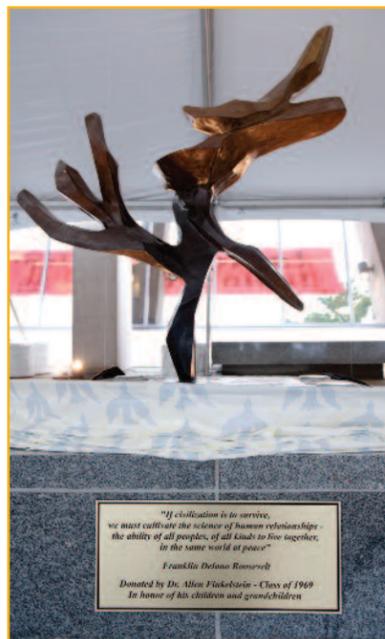
For more information about the program or admissions requirements, please contact Brian Hahn, director of admissions, Temple University Kornberg School of Dentistry, [bhahn@temple.edu](mailto:bhahn@temple.edu).



## AN INTERVIEW WITH Allen Finkelstein, DDS, Class of 1969



Allen Finkelstein '69 receives Gallery of Success award certificate from Alex Mitchell '18.



### What brought you back to Kornberg School of Dentistry?

I met Amid Ismail shortly after he was appointed dean. After meeting him, I knew Kornberg School of Dentistry was going to turn a corner. Temple always provided students with a wonderful dental education program, but the students did not feel the faculty supported them and they had little connection to the community. With Dean Ismail, I saw a renaissance about to happen, and I knew I would be proud to say I was a Temple graduate.

### The Tree of Peace is dear to your heart.

#### What does it mean to you and to Kornberg?

On May 4, 2012, I dedicated a *Tree of Peace* to the Kornberg School of Dentistry in honor of my children and grandchildren. Designed by Parisian sculptor Hedva Ser, a UNESCO Artist of Peace, it is a reminder of the strides being made to create a legacy of global peace through improving oral care needs throughout the world.

Through dentistry, we can create a model that truly defines peace. I believe the *Tree of Peace* is a true representation of this, and a wonderful way to pass on peace and love from one generation to another. Kornberg School of Dentistry students are not only gaining knowledge of dentistry, but are learning humanity and caring for the individual's healthcare needs.

The *Tree of Peace* is also located at Hebrew University-Hadassah School of Dental Medicine; A.T. Still University Arizona School of Dentistry and Oral Health; Harvard School of Dental Medicine; Al-Quds University and the School of Dental Medicine in Strasburg.

### As an alumnus of the school, what roles have you assumed at Kornberg?

As a member of the Board of Visitors for the school, I serve in an advisory capacity to the dean and as an ambassador for the school to help advance its mission. I was selected for my interest in, and commitment to, Kornberg.

I was recently inducted into Temple University's Gallery of Success, which is administered through the Temple University Alumni Association (TUAA). The Gallery of Success showcases Temple alumni who have utilized the skills and knowledge learned at Temple to chart their own paths in their studied fields. I am proud the Kornberg School of Dentistry nominated me for this honor.

### What are some of the positive changes you have noted at Kornberg under Dean Ismail's leadership?

I cannot say enough about Dean Ismail. In the last seven to eight years, the school has undergone a metamorphosis. He has done so much for the school, the faculty, the students and the community. The school has been modernized and houses the latest technology, and its dental clinic is the oral health safety net for North Philadelphia. Dean Ismail has made the school part of the community, and students are encouraged to be good citizens and embrace relationships with community members. I have watched the dean develop an outstanding dental education model with a foundation based on compassion for its patient population. He has created a student environment that is dedicated to their patients and will result in the students' being outstanding dental professionals.

### What would you like to say to other alumni about the "new" dental school?

I encourage my colleagues and alumni to revisit the school. It's time to see an outstanding facility doing incredible work and graduating fine dentists who are our next leaders in the dental profession. Dean Ismail is respected by everyone and welcomes alumni to visit and get involved. I am proud to say that I am a Temple graduate.

Dr. Allen Finkelstein is the chief executive officer of Bedford HealthCare Solutions and the former chief dental officer of AmeriChoice/United Health Group, insuring over 3.5 million lives in dental government coverage. Dr. Finkelstein is a member of the American Dental Association and is currently serving on seven dental school boards. Dr. Finkelstein has been active in many community activities, both philanthropies and dental outreach programs for the underserved. He currently maintains a dental practice, specializing in periodontal prosthesis, located in Great Neck, New York.



## “I’ve always been a planner.” Dr. Leonard Goldstein



*Dr. Leonard Goldstein, '80, shown traveling in Normandy, France, says his planned gift will provide scholarships for dental students, especially those who graduated from Penn State, his other alma mater.*

His parents were Holocaust survivors, one from Czechoslovakia-Ukraine and one from Poland. They worked hard but never had an opportunity for education. So that is what they emphasized. When Dr. Goldstein commuted the short five miles to Temple Dental, he knew, “All I had to do was study and work hard.” He remembers he was well prepared to practice, although he believes you never think you’re 100 percent ready. “They were four difficult years,” he says, “and they drilled everything into us.”

Choosing to work with the underserved, he did root canals, crowns and dentures for a dentist in urban

Philadelphia and eventually bought the practice at 29th and Lehigh. “I’ve probably extracted 10,000 teeth, and although that’s not ideal dentistry, it’s what the community needed.” Taking people out of pain was what mattered to him. If something was wrong, he found he could fix it relatively quickly. “Whenever I had a problem, I would think, ‘What would they tell me in dental school?’ and the problem would be solved.”

But about eight years ago, Guillain-Barré syndrome hit him. A quadriplegic for a month and then paralyzed for three months, he had to retire. Still young enough to pursue another avenue of work, he now manages several rental apartments and travels over the world. But the experience has left him with a strong recommendation for young dentists: “Get disability insurance.”

Grateful for his education at Temple Dental and the many rewards that come with dentistry, Dr. Goldstein says he wants to give back and help others enter the profession. He notes that while his four years cost about \$25,000, dental school is now at least double that for just one year.

He admits that life-saving surgery about four years ago for a torn aortic dissection was yet another reason to think about a Kornberg gift. “It knocked me out for a year and was what killed the actor John Ritter. I was lucky.”

Because he’s always been a saver and investor, Dr. Goldstein considers his planned giving an important choice. “It never hurts to think ahead, and giving a little help will be nice.”

### PLANNED GIVING

#### Making excellent and affordable education possible

If you are like a growing number of alumni, you may be looking forward to future generations—to make sure they have the same opportunities you had at the Kornberg School of Dentistry.

You can play a part in tomorrow’s success stories by leaving a gift to Temple Dental in your will, trust, or by beneficiary designation. Your gift can create

a permanent scholarship for students, or invest in the renowned teaching and research of Kornberg faculty.

To permanently link your life story with Temple Dental’s enduring mission, please contact Jennifer Jordan, director, Development and Alumni Relations, [jejordan@temple.edu](mailto:jejordan@temple.edu), 215-707-7887.

My two-year-old daughter is constantly asking, “Why?” As many of you parents know, this question can become a very tedious one to answer. Instead, I am going to ask you the question, “Why not?” Should you become a member of the Alumni Association? Sure! Why not?

While our experiences may have varied, there is no doubt we all thought the classes were tough and the time commitment was intense! Well, Temple is a school that creates doctors. It’s not supposed to be easy—we are producing world-class dentists here—but it’s not the same school it was 30, 20, or even 10 years ago. The facilities are greatly improved, the professors enjoy teaching and helping the students, and the time commitment...well, that’s still intense, but again, we’re creating doctors here.

Let’s go back to my original question. Why not? The students need our help. The Temple Dental Alumni Association provides opportunities to engage in events and activities which benefit our students and the patients served. We help fund mission trips to Haiti, Peru, Jamaica and the Dominican Republic. We’ve created a mentoring program that pairs current students with alumni in an effort to help bridge the education gap between student and practicing dentist. We’ve also created a FREE CE program available to all members of the Temple Dental Alumni Association—it provides 9 credits of FREE LIVE CE on topics that are invaluable to improving overall care to our patients. We are currently working on expanding this program to include an additional 6 credits.

In essence, by joining the Temple Dental Alumni Association, you will no longer need to worry about obtaining your 15 credits per year needed for license renewal! (Plus, Temple University alumni get the great benefits listed to the right.) As you can see, the answer is clear; you should join the Temple Dental Alumni Association.

The \$95 yearly dues are minimal, you receive 15 CE credits for free plus the additional benefits outlined to the right, and it allows the current students to have an improved experience. We need your help to make this association one of the strongest in the country! Temple has afforded us very nice lives and an unbelievable earning potential. All we ask is to help give back a little, or more if you’d like, to continue the upward path we are on. So PLEASE, don’t hesitate—go online to <http://dentistry.temple.edu/alumni/alumni-association>, join the association and let’s get this train rolling! We can be the change we wish to see in our alma mater.

Thank you!  
Jason Bresler, DMD, Class of 2006



#### Temple University Alumni Association benefits for you and your family:

- Major discounts to popular family attractions.
- Savings through our hotel partnerships when you visit campus.
- Earning cash back on your electricity usage through Energy Plus.
- The new Temple University BankAmericard Cash Rewards™ Visa Signature® credit card that lets you earn more cash back for the things you buy most, all while helping support Temple initiatives.
- Temple has partnered with Zipcar to bring self-service, on-demand car sharing to you at a discount.

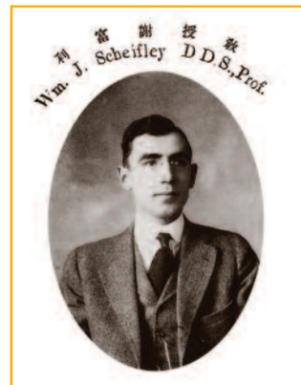


On April 29, 2016, more than 120 Temple Dental alumni and their guests convened in Philadelphia to reunite and reconnect with their classmates and their alma mater. Guests heard the latest news from Dean Amid Ismail. Coach Fran Dunphy regaled them with tales from on and off the basketball court, and they got a front-row seat to a case conceptualization presented by a senior student. The most fun of all is—of course—the party at Loews Hotel in Center City, Philadelphia. We heard from a member of the Class of 1951 and recognized the 50th Reunion Class of 1966. Best of all, memories were shared and friendships rekindled. Special thanks to all the attendees, especially our 2016 Temple Dental Reunion Ambassadors. 'Til next time!



### 1910s

The legacy of **Dr. William J. Scheifley, Class of 1913**, as a pioneer of modern dentistry in Korea was recently celebrated as part of Yonsei University College of Dentistry's 100th Anniversary celebration. After graduating from



Temple University School of Dentistry, Dr. Scheifley traveled to Korea as a dental missionary. In 1915, he established the Department of Dentistry at Severance Union Medical College as well as a dental clinic at the Severance Hospital in Seoul. That department grew into the current College of Dentistry at Yonsei University. Dr. Scheifley was commemorated both in a history of the school and on a postage



stamp issued by South Korea—both of which will soon be on display here at the Kornberg School of Dentistry.

### 1980s



**Dr. Robert Levine, DEN '81**, and **Dr. Harry Randel, DEN '86**, were named the winners of the Straumann® Pro Arch Case Contest for their case presentation entitled "The Team Approach in a Complete Mouth Pro Arch Hybrid Reconstruction Using the Indirect Method for Provisionalization."

### 1990s

**Dr. Giorgio DiVincenzo, Perio '93**, was named president of the New Jersey Dental Association (NJDA). His one-year term runs from June 2016–June 2017.

### 2000s



**Dr. Joshua Bresler, DEN '03**, was recognized by the *Philadelphia Business Journal* in its 2016 *40 Under 40* list of top young business leaders and "influential up-and-comers." Dr. Bresler is also a member of the faculty and of the school's Board of Visitors; he gave the keynote address at Class of 2018's White Coat Ceremony in April.

**Dr. Richard Gesker, DEN '03**, chief dental officer for Mary's Center, a federally qualified health center in Washington, D.C., participated alongside 25 current Temple Dental students and several faculty members on the Great Shape, Inc., mission trip to Jamaica. Dr. Gesker wrote that "their amazing work ethic and ambition resulted in a record-setting amount" of treatment being provided. He praised the exceptionally high quality of dental care provided by the Temple Dental students.

### 2010s



**Dr. Bari Levine, DEN '16**, founded the Growing Smiles Foundation while she was a dual DMD/MPH student at the Kornberg School of Dentistry in order to provide oral healthcare to children in Peru. She recently returned from the 2nd annual Growing Smiles Foundation mission trip, where she, along with her parents, **Dr. Robert Levine, DEN '81**, and **Dr. Sheryl Radin, DEN '82**, two other dentists and a dozen current Temple Dental students provided more than \$140,000 worth of free dental care to over 350 patients, the majority of whom were children between the ages of 3 and 12 years old.

### Students

#### 2017

**Anna Vishnevetsky** and **Jennifer Mirman**, both members of the Class of 2017, were selected by the American Public Health Association (APHA) Oral Health Section as the recipients of the 2016 Anthony Westwater Jong Memorial Community Dental



Health Pre-Professional Award. This award, which is sponsored by Colgate Oral Pharmaceuticals, was established in 2006 in memory of the late Dr. Anthony Westwater Jong and in recognition of his commitment to community-based dental public health, his strong and highly acclaimed mentoring of students, and his emphasis on the importance of state, local and community-based public health action.



**Michael Santora**, Class of 2017, led this year's Kuwait Exchange Program, through which eight Temple Dental students spent a week last spring studying the dental care and education systems in Kuwait, shadowing and assisting their peers from the University of Kuwait's School of Dentistry in the clinic, and experiencing Kuwaiti culture and hospitality. The students returned the favor by hosting a group of eight Kuwaiti students here in Philadelphia for a week in September. The exchange program is entirely student run, with support from the faculty and deans of both schools.

#### 2018



**Trent Gabriel**, Class of 2018, co-founder and co-president of the Temple Dental chapter of the American Dental Education Association (ADEA), was named an ADEA Academic Dental Careers Fellowship Program (ADCFP) fellow. He is also the first Temple Dental student to be elected as a Regional Representative – East Coast Region for the ADEA Council of Students, Residents, and Fellows (COSRF).

**Alex Mitchell**, Class of 2018, was elected to a national leadership position with the American Student Dental Association (ASDA). He will serve as District 3 Trustee for the 2016–2017 academic year, representing his constituents on the Board of Trustees and as chair of the district caucus.



**PA Dental License Renewal is March 31, 2017. Have you satisfied all your continuing education requirements yet?**



**Don't miss out on these great CE Courses!**

**Friday, November 18, 2016**  
**Telescopic Retainers**

Dr. Joseph Breitman  
Student Faculty Center / 9am-4pm / 6 CE  
Dentist \$295; DT \$125; Temple Alumni \$250.75; Temple Faculty \$50; Temple Resident/Student \$25

**Friday, January 6, 2017**  
**Is Occlusion an Illusion?**

Dr. David Donatelli and  
Dr. Scott Nakamura  
Student Faculty Center / 9am-12pm / 3 CE  
Dentist \$195; DT \$95; Temple Alumni \$165.75; Temple Faculty \$50; Temple Resident/Student \$25

**Friday, January 27, 2017**  
**Prosthetically Driven Implant Dentistry: Treatment Planning and Complication Management**

Dr. Hai Qing  
Student Faculty Center / 9am-4pm / 6 CE  
Dentist \$295; DT \$125; Temple Alumni \$250.75; Temple Faculty \$50; Temple Resident/Student \$25

**Wednesday, February 8, 2017**  
**\*Nitrous Oxide Sedation**

Dr. Stanton Braid and Dr. Allen Fielding  
Student Faculty Center / 9am-5pm / 7 CE  
Dentist \$800

**Wednesday, March 1, 2017**  
**Interpretation of Panoramic Imaging and 3D Cone-Beam Computed Tomography (CBCT)**

Dr. Jie Yang  
Student Faculty Center / 9am-4pm / 6 CE  
Dentist \$295; DT \$125; Temple Alumni \$250.75; Temple Faculty \$50; Temple Resident/Student \$25

**Wednesday, March 8, 2017**  
**Medical Emergencies in the Dental Office**

Dr. Allen Fielding and Dr. Gary Jones  
Student Faculty Center / 9am-5pm / 7 CE  
Dentist \$350; DT \$150; Temple Alumni \$297.50; Temple Faculty \$50; Temple Resident/Student \$25

**Friday, March 17, 2017**  
**A Comprehensive Review of Pediatric Dentistry for the General Practitioner and Staff**

Dr. Lance Kisby  
Student Faculty Center / 9am-4pm / 6 CE  
Dentist \$295; DT \$125; Temple Alumni \$250.75; Temple Faculty \$50; Temple Resident/Student \$25

**Friday, April 7, 2017**  
**Dental Aesthetic Restorative Dentistry: Enjoying Dentistry by Reducing Stress and Creating Happy Patients**

Dr. Steven Weinberg  
Student Faculty Center / 9am-4pm / 6 CE  
Dentist \$295; DT \$125; Temple Alumni \$250.75; Temple Faculty \$50; Temple Resident/Student \$25

**Friday-Saturday, April 14-15, 2017**  
**\*Fundamentals of Soft and Hard Tissue Lasers for Clinical Dentistry**

Dr. Keisuke Wada and Dr. Jon B. Suzuki  
Student Faculty Center / 9am-5pm / 14 CE  
Dentist \$695

**Sunday, April 30, 2017**  
**Jewels You Use On Monday**

Dr. Marc Gottlieb  
Student Faculty Center / 9am-4pm / 6 CE  
Dentist \$295; DT \$125; Temple Alumni \$250.75; Temple Faculty \$50; Temple Resident/Student \$25

**Friday, May 19, 2017**  
**Oral Mucosal Disorders: Guidelines for the Dental Professional**

Dr. Chizobam Idahosa  
Student Faculty Center / 9am-12pm / 3 CE  
Dentist \$195; DT \$95; Temple Alumni \$165.75; Temple Faculty \$50; Temple Resident/Student \$25

**Wednesday, May 31, 2017**  
**Choosing Our Abutments: How to Make Informed Decisions in Order to Insure Optimal Clinical Outcomes**

Dr. Steven Present  
Student Faculty Center / 9am-12pm / 3 CE  
Dentist \$195; DT \$95; Temple Alumni \$165.75; Temple Faculty \$50; Temple Resident/Student \$25



**In Memoriam**

**Vincent A. DiZinno, DDS ('53)** Dr. Vincent A. DiZinno of Rio Rancho, N.M., passed away peacefully on February 2, 2016, at the age of 93. Dr. DiZinno was born in Waterbury, Conn. He served as a lieutenant in the U.S. Navy from 1954-1956. He practiced as a dentist in Oakville, Conn., for 14 years before moving with his family to New Mexico, where he was the first dentist in Sandoval County. The local newspaper called him a "20th Century Pioneer." One of the many ways he gave back to his community was through his work with New Mexico's public health mobile dental unit, providing dental care to children in underserved areas. Dr. DiZinno is survived by his wife of 63 years, Frances (Sbordone) DiZinno; his daughters Kathryn and Carole; five grandchildren; seven great-grandchildren and many nieces and nephews.

Sidney Gravitz, DDS	DEN '43	John Kotin, DDS	DEN '62
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