

INDIANA UNIVERSITY SCHOOL OF DENTISTRY | BULLETIN

ALUMNI

2017 VOL 27 | NO 2

GET READY
Digital dentistry is here

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IU School of Dentistry is preparing our students for the digital landscape of 21st century oral health care. Also, read about an Indiana man who received a prosthetic nose tip after cancer in less than 24 hours, thanks to a multidisciplinary team of digital and fine artists.

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Our alumni in Texas, Florida and Puerto Rico survived the worst hurricane season in recent U.S. history. See how they fared and helped others in their communities.

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On the cover

Orthodontist Dr. Ryan Hungate (DDS'12) invented a wearable digital technology that is improving patient workflow and enhancing digital dentistry in education and practice.

Indiana University School of Dentistry Alumni Bulletin | Volume 27, Number 2, 2017

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IUSD Board of Advisors Chair Dr. Pamela Steed (DDS'83, Dental Diag Sci '90) and Dr. Peter Furno at the Dean's Society dinner reception at the Woodstock Club.



Class photos begin on page »

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Members of the DDS class of 2007 were happy to be together again at the IUSD annual alumni reunion held at the French Lick Resort.



Ceremony photos on page »

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Jenny Mai is ready to wear her white coat and take her place among the class of 2021.



Dean Williams in front of an operatory being assembled in the new Fritts Clinical Care Center.

from the **DEAN**

Dr. John N. Williams

As we approach the end of 2017, I turn my thoughts to gratitude for the many opportunities and gifts that have come to me in the past year.

At the IU School of Dentistry, I am most grateful for all of you – faculty, staff, students and alumni – and the many contributions you make to our incredible dental school community. I am so appreciative of our wonderful supporters, many of whom joined us early on in the quest to raise funds to get a new clinical building project underway. You have given us an additional 153 reasons to smile by making named donations to various rooms, areas and components of the James J. Fritts, DDS Clinical Care Center, which is nearing completion right before our very eyes.

On September 23, 2016, we held the Fritts Center groundbreaking, and now we are planning for the official dedication of this state-of-the-art facility on March 2, 2018. Please join IU President Michael McRobbie, the IU Trustees and all of us at the IU School of Dentistry as we celebrate the opening of a new clinical building in which our students and faculty will practice 21st century dentistry in a 21st century facility.

Indeed, this issue of the *Alumni Bulletin* focuses on the recent advances in digital dentistry that are transforming oral health care. Work that once took weeks can now be accomplished in a day. This has major implications for the way we teach and practice. Developments in digital dentistry, such as intra-oral scanning and computer-aided design and fabrication, are dramatically improving quality, speed, precision and patient satisfaction.

As dental educators, we must prepare our students for today's practice as well as tomorrow's. As we move into the digital space – where most of our students were born – we are ensuring our students leave IUSD ready to practice in both the analog and digital worlds.

The same is true for our facilities. In order to continue to teach and practice world-class dentistry, we will need to bring our vintage structures – constructed in the 1930s, 1960s and 1970s – into the 21st century as well. The Fritts Center was Phase I. Phase II is the renovation and remodeling of these old buildings, which, if the walls could talk, they would share many inspirational tales about our alumni, who have continuously demonstrated the power of believing and investing in the future of IUSD. Your many acts of kindness and generosity enable us to be one of the best dental schools of the 21st century.

My thanks to you is heartfelt. I wish you and your families a holiday season filled with love, community and service.

With great appreciation,

John N. Williams, Dean
Indiana University School of Dentistry

A GREAT FIT

White Coat ceremony inducts new students

The DDS class of 2021 and the IU-International Dentist Program class of 2019 donned their white coats for the first time during their formal initiation into the dental profession. IUSD's annual White Coat ceremony was held Sunday, Aug. 20, 2017, at the IUPUI Campus Center after the first-year DDS students finished summer courses in head and neck anatomy and ethics and professionalism.

Keynote speaker **Dr. Jack Drone**, IDA publications editor and section chair of the American College of Dentists and the Pierre Fauchard Academy, encouraged students to

think of each other as colleagues, not competitors; working in a profession, not an industry. "There will be enough patients, restorations and points for all of you to graduate – there always are," Dr. Drone said. "These are the days when you forge friendships that will last a lifetime. More importantly, these friendships magically transform into collegiality when you graduate."

More White Coat ceremony photos are available on the Indiana University School of Dentistry Facebook page at facebook.com/IUDentistry.





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“These are the days when you forge friendships that will last a lifetime.”

DR. JACK DRONE

1. Dr. Gabrielle Johnson (DDS'14), right, encouraged her dental assistant Amber Jares to go to dental school.
2. David Van Winkle is flanked by his parents Kurt Van Winkle (DDS'87, Perio'90) and Becky Farley.
3. Proud father Reed Johnson (DDS'88) and son Cole
4. Dean Williams congratulates Phillip Larece.
5. Maxwell Lyon reflects the collective joy of the DIs as they begin their dental school journey.
6. The IU-International Dentist Program class of 2019. The program offers qualified graduates of international dental programs the opportunity to earn a DDS degree at IUSD.
7. The McKary sisters: Magy (D3); Mira, an osteopath; and Monica (D1)
8. Dr. Andrew Bachman (DDS'16) helped his younger brother Matthew on with his coat.
9. Three generations of Lund's in dentistry: Dr. Melvin Lund, retired Restorative Dentistry faculty; grandson Erik Lund; and Erik's father, Prosthodontics faculty Mark Lund (DDS'77, Prosth'90)
10. “That’s my Mommy,” says Ahnalise of her mother Ashley Recker, a 2005 Dental Hygiene graduate returning for her DDS.

NEWS BRIEFS

FROM BREAKING GROUND TO PLANTING THE GROUNDS

It's hard to believe we broke ground on the James J. Fritts, DDS Clinical Care Center only 14 months ago. Construction is wrapping up quickly on the state-of-the-art clinical facility. Walls, ceilings and floor tiles are complete on most floors, and delivery of operatory furniture and equipment began in December. Outside, crews have paved the road and sidewalks, shaped the contours of the grounds and planted perennials, a reminder that Indiana's oral health clinical and educational facility will serve students and the community for generations to come.

Workers add the limestone façade to the south facing exterior of the Fritts Center



WONDER WOMEN TAKE 1ST AND 3RD AT IUPUI REGATTA



IU School of Dentistry's legacy of rowing success continued at the 9th annual IUPUI Regatta on Saturday, Sept. 23, 2017. After reaching the podium the past four years, the *Golden Crowns* broke through and claimed their first outright win in the women's division. Pictured here is the *Golden Crowns* team: nursing student **Marilee Tullis** and D4s **Logan Wheeler**, **Jillian Albee**, and **Emma Meyer**. Last year's women's champions, *Minty Fresh*, held on for a third-place finish. The Allied Programs also had strong showings, with a Dental Assisting team, *DAST Girls*, making the finals, and a Hygiene team, *Future Prophecy Wives*, rounding out the top 10.



Members of the 1965 DDS class at their 1970 reunion

Peruse past issues of the *Alumni Bulletin* magazine

What happened at the dental school the year you graduated? Find out by searching the dental school alumni magazine online. The first phase of digitizing the *Alumni Bulletin* magazine is complete and available for anyone to search, beginning with the first issue in August 1938. Search at archives.iupui.edu. Type "IUSD Alumni Bulletin" in the search bar.



IUSD chapter of American Association of Women Dentists inaugurated

IUSD has established a local chapter of the American Association of Women Dentists. "It's great to meet women at higher levels, especially specialists. We need female mentors," said chapter President Julie Bertolet, D4. Pictured here are charter dental student members, top row, Julianna Pikus, Rebecca Baer, Kasey Chandler. Bottom row, Julie Bertolet, Leah Stetzel and faculty adviser Dr. Tawana Ware. Not pictured, faculty adviser Dr. Liz Ramos.

PROFESSIONAL PATHWAYS CONNECTS EMPLOYERS WITH GRADUATING STUDENTS

IU Dentistry Professional Pathways: Staying Connected matches dental practices with graduating job seekers. Post practice openings or upload resumes at iupui-dentistry-csm.symplicity.com.

CONTACT THE OFFICE OF ADMISSIONS AND STUDENT AFFAIRS WITH QUESTIONS AT 317-274-8173 OR OASAMAIL@IUPUI.EDU.

STUDENTS TRAVEL AROUND THE WORLD TO SERVE PEOPLE IN NEED

Students, faculty, staff and alumni traveled across the globe last spring and summer to provide oral health care in underserved communities. The dental school's Global Service Learning initiative organized trips to Mexico, Haiti, Kenya, Guatemala, Ecuador and a South Dakota Native American Indian reservation. An educational exchange also was established with British students at Newcastle University in Newcastle, UK.

If you would like to help support the Global Service Learning experience for IUSD students, who pay for their own travel, please contact John Hoffman, assistant dean of Development, at 317-274-5313, jhoffma@iu.edu.

Outside of dental school, D4 student Uzi Kamal, pictured here, served with the Syrian American Medical Society to treat children at a Syrian refugee camp in Lebanon. The majority of the refugee children had no toothbrush or toothpaste and required multiple extractions, Kamal said.

"This trip was life changing and career changing," Kamal said. "Before going to the refugee camp my career had one aim, which was to be a pediatric dentist in private practice. But now I know I have a responsibility to serve these people, not only because I was born in Syria, but because the need is beyond what anyone of us can imagine. They are suffering from so much more than cavities."



"This trip was life changing and career changing."

**— Uzi Kamal
D4 Student**



Fox-59 reporter Alexa Green (in red) covered the Give Kids A Smile event

GIVE KIDS A SMILE *returns for 15th anniversary*

More than 150 student, faculty, staff and alumni volunteers from IU Dentistry provided almost 100 underserved children with free dental services on Saturday, Sept. 16, 2017. The Give Kids A Smile event provided free dental screenings, fluoride treatments and preventive oral health care. Children also received goodie bags with a toothbrush, toothpaste, floss and oral hygiene instructions. Our students added to the festivities with face painting, coloring and games.

“The high volume of patients participating in charitable events like Give Kids A Smile highlights a clear gap between those with and without good dental health,” said IU School of Dentistry alumni Dr. Jeffrey Dalin (DDS’80), who founded Give Kids A Smile in St. Louis, Mo., in 2002. “Considering that oral health is connected to total health, financial barriers to care should be of major concern to state leaders.”

After Dr. Dalin founded Give Kids A Smile, the ADA Foundation launched the program nationally in 2003 as a way for dentists to join with others in the community to provide dental services to underserved children.

“The high volume of patients participating in charitable events like Give Kids A Smile highlights a clear gap between those with and without good dental health,” said IU School of Dentistry alumni Dr. Jeffrey Dalin (DDS’80).



FIFTH BURSTONE SYMPOSIUM **FOCUSES ON ORTHODONTIC** **BIOMECHANICS**

The Fifth Biennial Burstone Symposium, held Oct. 5-7, 2017, at the Hilton Indianapolis Hotel & Suites, focused on practical applications in biomechanics and orthodontic legal concerns. The symposium is named for Dr. Charles Burstone (Ortho’55), known as the father of orthodontic biomechanics. He was chair of the Orthodontics Department from 1961 to 1970. Pictured here are Dr. Katherine Kula, retired IUSD Orthodontics and Facial Genetics chair; Dr. Jae Park, Arizona School of Dentistry & Oral Health; University of Connecticut Orthodontic faculty Dr. Ravindra Nanda; and Dr. Kelton Stewart, interim chair, IUSD Orthodontics and Facial Genetics.

Student Outreach Clinic **offers more complex care with** **\$100,000 USA Today grant**



IUSD’s Student Outreach Clinic (SOC) won a \$100,000 grant from Gannett Foundation to provide more complex oral health care to uninsured adults in an impoverished Indianapolis neighborhood on the near eastside. With the grant money, patients now may receive crowns, root canals and dentures. The SOC operates two Saturdays a month. More than 200 volunteer dental and dental hygiene students run the clinic, with support from 13 faculty members.



IU Regional Academic Health Center in Bloomington

Multi-Institutional Academic Health Science Education and Research Campus in Evansville

Regional dental school campuses develop along the I-69 corridor

Coming soon, IUSD's reach will extend along I-69 from Fort Wayne down through Indianapolis, Bloomington and Evansville.

On the IU-Fort Wayne campus, all of the health science degrees are transferring from Purdue to IU. IUSD will assume administrative responsibility for the Dental Hygiene, Dental Assisting and Dental Laboratory Technology programs on July 1, 2018.

In Bloomington, DDS students will perform clinical rotations at a dental clinic to be constructed at the IU Regional Academic Health Center on the IU campus. The 735,000-square-foot complex will house IU Health Bloomington inpatient and outpatient services as well as a 115,000-square-foot academic facility for health

sciences education and research. Construction will begin the first quarter of 2018 and is expected to be completed in 2020. More information at iu.health.org/BloomBuild.

IUSD students also will rotate through the Multi-Institutional Academic Health Science Education and Research Campus in downtown Evansville. Launched as a model of interprofessional medical education training for future dentists, physicians, dentists and health professionals, the campus is a collaboration among four regional hospitals and three institutions of higher education. Expected completion is July 2018.

ANTIMICROBIAL GEL DEVELOPED AT IUSD COULD IMPROVE ROOT CANAL RESULTS



An injectable, antimicrobial gel developed at the IU School of Dentistry has been found to disinfect longer and have fewer toxic effects than traditional medications.

Dr. Ghaeth Yassen, former visiting assistant professor, Biomedical and Applied Sciences, developed an injectable antimicrobial gel that can disinfect a tooth during a root canal procedure. "I wanted to create a gel that provides sustained antimicrobial properties even when it is removed. I also wanted it to have minimal toxic effect on stem cells and not cause tooth discoloration," he said.

Dr. Yassen said the gel has advantages over traditional medications, including calcium hydroxide, widely used as an antibacterial agent. "The gel offers extended and significantly longer residual antibacterial properties, which has been proven in papers published in the *Journal of Endodontics* and the *International Endodontic Journal*," he said. "It is biocompatible, and it contains a low concentration of antimicrobial elements."



A core team of faculty members led the research and development into the dental school's evolution into digital dentistry. From left, Drs. Michele Kirkup (DDS'06), Paul Reifeis (DDS'78, JD'84, Oper Dent'97), Brooke Adams (DDS'05). Not pictured, Dr. Lisa Willis (DH'83, Public Health DH'84, DDS'88, Oper Dent'92).

DIGITAL DENTISTRY THE FUTURE LOOKS BRIGHT

BY JILL JANSEN



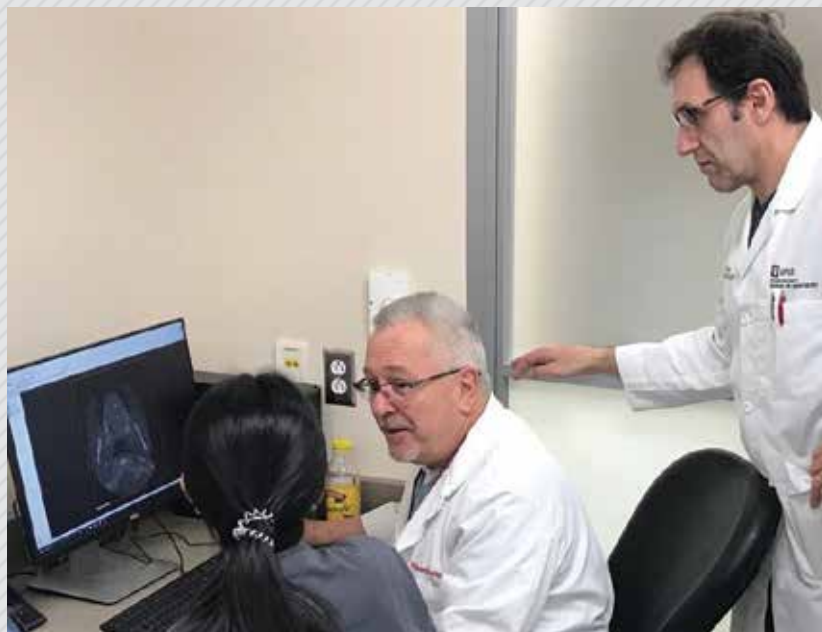
Orthodontist Ryan Hungate (DDS'12), co-founder of Simplifeye, a digital practice workflow software company, in front of his Manhattan office



Finding similarities between a trip to the Apple store and a visit to the dentist may seem illogical – unless you're Ryan Hungate (DDS'12). The workflow principles that Dr. Hungate first conceived in 2007 while working at an Apple store are the same ones he used when inventing his product for the world of digital dentistry – a wearable technology that is improving patient workflow for more than 1,500 dental practices in the United States and Canada.



Dr. Ross Brenner (DDS'16) became fascinated with digital fabrication as a dental student.



Drs. Dean Morton (seated) and Waldemar Polido, co-chairs of the Center for Implant, Aesthetic, and Innovative Dentistry, review cone beam computed tomography (CBCT) data for implant placement with Prosthodontics resident Dr. Meenarin Panittaveekul.

The idea for his software product, Simplifeye, began when he was a DDS student at the Indiana University School of Dentistry (IUSD). “I had already realized that workflows are everything; if you don’t have an effective system, you’ll fall behind or have a band-aid system to take care of it,” said Dr. Hungate, who left Apple for dental school in 2008.

Replacing two-way radios, light systems and other methods of managing patient throughput, Simplifeye interfaces with practice management software to reduce wait times and increase workflow efficiencies, Dr. Hungate said. The product works through an Apple Watch or other mobile device to provide details about each scheduled patient, including medical records, past dental procedures and the reason for the day’s visit.

Offering key information to route practitioners strategically around their office, Simplifeye software is based on Dr. Hungate’s observations and experiences working in dental clinics at both IU and the University of Southern California (USC), where he completed a master’s degree in orthodontics.

“I started to envision a system that would help doctors triage their patients and prioritize their work for greater efficiency and an improved patient experience,” he explained.

While at USC, Dr. Hungate spent weekends designing the first hands-free prototype using Google Glass eyewear. Eager to see how it would be received, he developed a business plan, entered USC’s prestigious Maseeh Entrepreneurship Prize Competition and won first place, which included \$20,000 in start-up funding. Transferring the technology to the user-friendly Apple Watch, which had just been released, Dr. Hungate and his cousin and business partner, Zach Hungate,

took their idea to AngelPad, one of the nation’s top seed-stage accelerators. They were accepted into the program, and Simplifeye was born. Today, three Silicon Valley venture capital firms invest in the company, including First Round Capital, which counts Uber, Blue Apron, Birchbox and Square among its funded startups. More than 300 doctors applied for the beta product when it was released in 2015.

“With more efficient workflow to get patients in and out the door, we’re giving doctors the information they need and the support to do what they do best — be doctors,” Dr. Hungate said.

The digital workflow

Simplifeye is just one example of how digital technology is being integrated into 21st century dentistry. Since the first Cerec system was introduced in 1987, developments in digital dentistry, such as intra-oral scanning and computer-aided design and fabrication, have dramatically enhanced oral health care with improvements in quality, speed, precision and cost effectiveness among the chief benefits. Although capital investment and training remain barriers to how rapidly elements of the digital workflow are incorporated, practices around the world — and the dental schools training future oral health care providers — are making the transition.

“It’s incumbent upon us as a school of dentistry to prepare our students not just for today’s technical landscape but also for tomorrow,” said Dr. John Williams, dean, IU School of Dentistry. “And while we know the future is moving toward the digital space, part of the tension of transition means ensuring students know how to practice both in traditional environments and ones that may be more digitally advanced.”

Continued »

“The amount of digital information you can capture with CBCT images is nothing short of phenomenal.” — Dean John Williams

A core team of faculty members, who had their first exposure to digital dental restoration in private practice, led the research and development efforts to procure the school's first CAD/CAM system, then the E4D system, and began including digital instruction in first- and second-year preclinical courses.

Drs. Michele Kirkup, Paul Reifeis, Lisa Willis and the late William Browning, published an article about the introduction of CAD/CAM into dental education in a 2014 issue of the *Journal of Dental Education*. Drs. Kirkup, Reifeis, Willis and Dr. Brooke Adams teach CAD/CAM procedures for dental students.

“We knew it was time to integrate this new technology into our curriculum,” Dr. Kirkup said. “The faculty thought it was important to not only offer digital dentistry for clinical activities but to also provide multiple opportunities to familiarize students with the technology during the preclinical courses.”

With multiple scanning and milling units available in both the preclinical and clinical environments, IUSD is on the leading edge of dental schools nationally in requiring students to use CAD/CAM to scan, design and fabricate crowns during the pre-clinical years, said Dr. Dean Morton, assistant dean of strategic partnerships and innovation, and chair, Department of Prosthodontics.

“Our goal is to provide enough scanners and milling units for digital instruction to become routine and fully integrated into a dental school of our size,” Dr. Morton said. “We anticipate that within five years every student we graduate will be making a majority of their impressions digitally. Digital impressions and associated laboratory procedures are more accurate and reliable in our clinics, are more patient-centric, and in the long run, will be more cost effective and efficient than analog methods. We are also working to recruit faculty with specific digital skills to enhance our didactic and clinical programs to benefit both patients and students.”

The IUSD Oral and Maxillofacial Surgery and Orthodontics departments also are using digital technology in treatment planning for dentofacial deformities, including complete digital simulations of planned procedures through specific software. Digitally planned implants will be a major part of digital advances at the school in the future, said Dr. Waldemar Polido, clinical professor, director of the Pre-doctoral Oral and Maxillofacial Surgery program and co-director of the Center for Implant, Aesthetic and Innovative Dentistry.

The new, state-of-the-art James J. Fritts, DDS Clinical Care Center, scheduled to open in summer 2018, offers a unique opportunity for IUSD to explore more aspects of

digital dentistry, expanding the school's educational and clinical offerings. With the clinic's built-in, high-speed networks, plans call for increased digital opportunities and an escalated use of digital radiology and cone beam computed technology (CBCT).

“The amount of digital information you can capture with CBCT images is nothing short of phenomenal,” said Dean Williams. “As a teaching institution first and foremost, we'll have the infrastructure in place to expand our digital capabilities and rethink our curriculum as a 21st century dental school.”

Digital dentistry and the 21st century student

While many factors impact the advancement of digital dentistry, there's no question about dental students' appetites to learn more. As “digital natives” — the first generation to grow up with technology in the palms of their hands — today's dental students are both built for and excited about the intricacies and potential of digital dentistry.

“Our students are much better prepared to utilize contemporary digital workflow options, and their interest will continue to push us to offer more opportunities in the digital space,” Dr. Morton said.

As a dental student, 2016 DDS graduate Dr. Ross Brenner took online continuing education courses through Planmeca, a large manufacturer of digital dental units, to fuel his interest in the principles of digital design. Enjoying the work and with his increased proficiency, he spent lunch hours helping classmates with their digital restorations.

“We'd scan in their casts and design crowns for their patients,” said Dr. Brenner, who is completing an orthodontics residency at St. Louis University. “I helped design and deliver roughly 100 crowns for patients during my last two years in the program.”



Dr. Jaren May, Operative Dentistry resident

Prior to beginning an operative dentistry residency at IUSD, Dr. Jaren May, a lieutenant commander in the U.S. Navy, trained 14 dental providers to use digital dentistry and delivered more than 250 CAD/CAM all-ceramic restorations. CAD/CAM dentistry allows for same-day crowns for U.S. Marine recruits at Parris Island, South Carolina, he said.

“The speed is a major draw, in addition to the aesthetic advantages,” said Dr. May, who published an article on using CAD/CAM for anterior aesthetics in the March/April 2017 issue of *Operative Dentistry*. “The doctor controls the material selection, morphology, translucency, shades, staining and the occlusion. I enjoy the power that digital dentistry gives back to the dental practitioner.”

Expanding the practice landscape

With accelerating technology and students’ burgeoning interests in the digital pathway, new developments in digital dentistry are likely to mean a broader scope of practice for today’s dental school graduates. A prime contemporary example, Dr. Morton noted, is the increase in the number of general dentists providing orthodontic services using a series

of digitally fabricated, 3-D printed splints. Also, more dentists are offering treatments using dental implants.

“Digital opportunities open the door for dental students to diversify their education in areas like orthodontic therapy, endodontics and implant dentistry,” Dr. Morton said.

And while digital dentistry has the potential to change the landscape of dentistry, it won’t change the role of fundamental dental education.

“Digital dentistry does not alter the importance of being a skilled dentist,” Dr. Morton said. “Even with the digital workflow, the dentist is still the patient’s advocate, and the patient always comes first, as does quality, evidence and predictability. Ultimately, the patient is still treated. It is how the dentist works in a modern dental practice that is going to change.”

BY RICH SCHNEIDER

PATIENT GETS NEW NOSE TIP *in less than 24 hours*



Jerry Faber, before and after his nose prosthesis

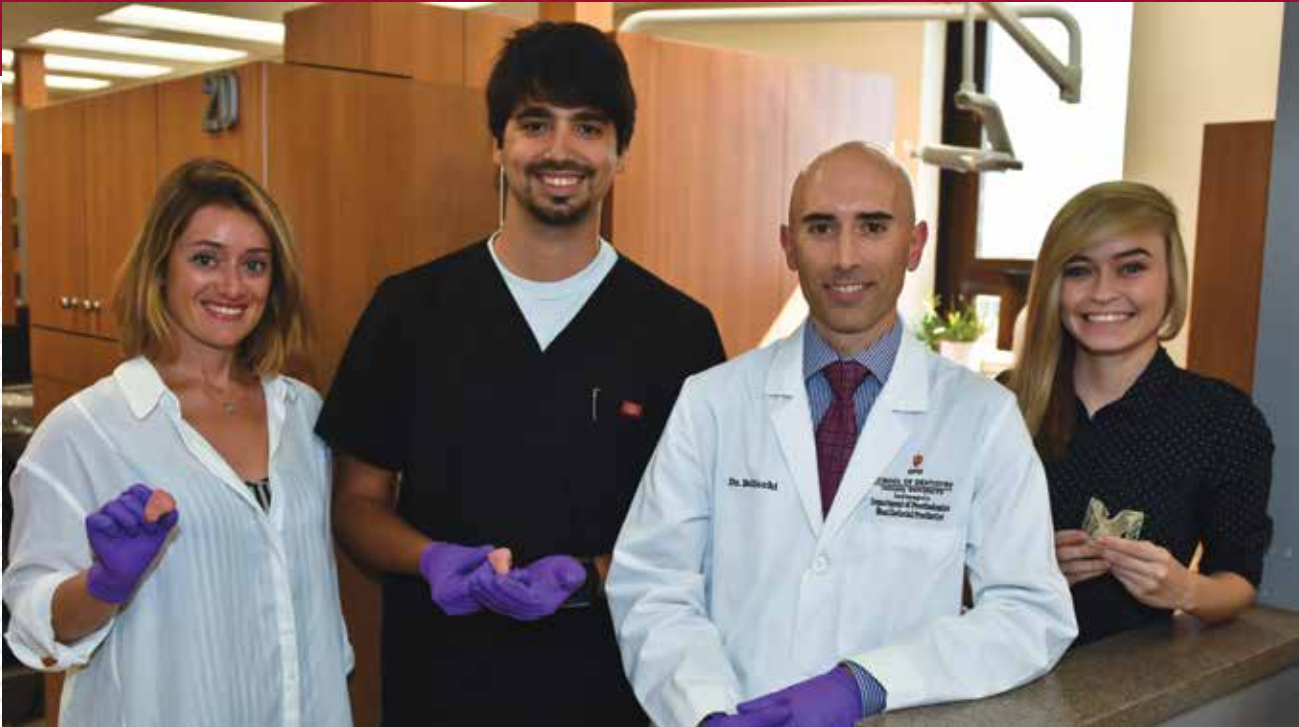
An Indiana University School of Dentistry-led team has dramatically cut the length of time it takes to make artificial facial parts, giving its latest patient a new tip for his nose in less than 24 hours.

The team has refined its use of digital technology to the point where it “can make a thought into a thing very quickly,” said the team’s leader, Dr. Travis Bellicchi, a fourth-year Maxillofacial Prosthodontics resident.

“The digital workflow allows us to move much faster,” Dr. Bellicchi said. “We capture the facial geometry with an LED structured light scanner. That happens in a matter of seconds.

So you instantly have a three-dimensional volumetric representation of the patient’s face in a digital form, upon which you can virtually sculpt a prosthesis using organic modeling software.”

Jerry Faber of Osgood, Indiana, received the nose prosthesis. He used one word to describe it: “Wonderful.”



The digital team crosses departments and schools at IUPUI. From left, sculptor and Herron School of Art and Design graduate Nicole Alderson of IUSD's Dental Illustrations; Prosthodontics resident Dr. David Diaz Rubayo; Oral Maxillofacial and Prosthodontics resident Dr. Travis Bellicchi; and Jordan Nelsen, an undergraduate design specialist/digital artist in the School of Informatics and Computing's Media Arts and Science program. Also on the team is Cade Jacobs (not pictured), a design specialist/digital artist from the IU School of Informatics and Computing's Media Arts and Science program.

Faber lost part of his nose to cancer. After three failed plastic surgeries, Faber said, "I was done. I couldn't take being cut on anymore." He was referred to Dr. Bellicchi and "hoped for the best."

Faber received the nose prosthesis in less than 24 hours after his first visit to Dr. Bellicchi.

"I'm just flabbergasted," Faber said. "A lot of people don't even notice it. It's fake, but it looks so real."

The fabrication of a prosthesis begins with facial scanning, moves to digital design and 3-D printing, and ends with individual characterization.

"We are unique in the sense that we commit completely to the digital workflow for every new prosthesis patient," Dr. Bellicchi said. "This is the way I work now. It's not a backup plan, not an alternative option."

The digital team that worked to produce the nose prosthesis included Cade Jacobs, a design specialist/digital artist who recently graduated from the IU School of Informatics and Computing's Media Arts and Science program; Jordan Nelsen an undergraduate design specialist/digital artist in the School of Informatics and Computing's Media Arts and Science program; and Nicole Alderson, a School of Dentistry Department of Illustrations staff member and recent IU Herron School of Art and Design MFA graduate, who characterizes and colors the prosthetic after it is molded.

It was possible for the team to fabricate the prosthesis for

"It's thrilling to see patients' reaction to the work we do. I just love my job. I love it."

— Dr. Travis Bellicchi

Faber so quickly because it lent itself extraordinarily well to a digital workflow, Dr. Bellicchi said. Fabricating prostheses digitally can take longer if, for example, a magnetic retention system is needed to keep a prosthesis in place.

Still, the digital fabrication process makes it possible to do in hours what used to take weeks or even months to do using the traditional time-consuming process of making a facial impression using a papier-mâché-type material and a plaster cast, sculpting the artificial part from clay or wax, and then creating another plaster mold to produce the prosthesis.

"With a digital workflow, we get closer to a more precise first prosthesis because I can rely on digital design and rapid prototyping," Dr. Bellicchi said. "Even if it's the first prosthesis we do for a patient, it usually fits better and has more aesthetic appeal than what I was able to accomplish sculpting with clay or wax and relying on plaster molds to fabricate a silicone prosthesis."

"It's thrilling to see patients' reactions to the work we do," he said. "I just love my job. I love it."

HEALING FROM THE HURRICANES



Damaged property in Puerto Rico. Photo: Dr. José Cordero Cruz

Between August and October 2017, three category four or five hurricanes made landfall – Harvey in Houston, Texas; Irma in Puerto Rico and Florida; and Maria, who punched a second devastating blow to Puerto Rico.

According to an email survey of IUSD alumni, miraculously, none of our graduates suffered major damage to homes or private dental practices; however there may be people we could not reach.

After Hurricane Harvey, alumni Dr. Omar Hakki (Perio'00) and oral pathologist Dr. Ashley Clark (DDS'10) volunteered at Houston's George R. Brown Convention



Dr. Omar Hakki (Perio'00) and Dr. Ashley Clark (DDS'10)

Center, where more than 10,000 people took shelter. “We performed mostly extractions, some restorative to replace broken fillings,” Dr. Hakki said. “Basically, we removed any sources of infection and took care of dental emergencies.”

The property of Dr. David Avery (DDS'66, Peds'70) on Big Pine Key, Florida, was hit hard. The house, built 12 feet off the ground, suffered only rainwater through soffits, but the grounds and storage at ground level were “wrecked,” he said. “A water surge over 40 inches covered my property. It's just stuff, though. No one was hurt.”

One recent alumnae, Dr. Melissa King (DDS'16), reported that Hurricane Irma almost leveled construction of a new Heartland Dental clinic, her employer, in Rockledge, Florida.

“They put the studs in two days before Irma hit, and it was destroyed,” Dr. King said. “But they rebuilt quickly.”

Dr. King's classmate, Dr. Lisset Gonzalez (DDS'16), who practices just north of Daytona Beach, Florida, said her office has had more slow days since the hurricane. “We have patients who have lost most of their belongings or need new roofs,” Dr. Gonzales said. “We are doing more payment plans so people can afford their treatments.”

In Puerto Rico, the destruction was unprecedented. Dr. José Cordero Cruz (Ortho'92), who lives in San German, Puerto Rico, reported the following on November 12: “Hurricane Maria hit on September 20 and became the worst event in the history of Puerto Rico. Today we completed our 52nd day without power in my area and about 60 percent of



Hurricane Irma almost leveled construction of a new Heartland Dental clinic in Rockledge, Florida, where Dr. Melissa King (DDS'16) works.



Dr. José Cordero Cruz (Ortho'92) reported conditions in Puerto Rico. More than two months after Hurricane Maria his home was still without power.

the island. Most of the island has had the power lines, phone lines, internet and water supply interrupted since the night before the hurricane. The island authorities have been working hard

and as efficiently as possible to restore the utilities, clean the roads, and provide water and food to people in isolated and hard-to-reach towns. Private and military planes and ships are bringing supplies from the USA and other nations, and we are distributing them as fast as they arrive.

“Fortunately, my family is fine, and the house did not suffer physical damage. The town where my orthodontic practice is located has had power and water supply since October 11 when I restarted work on my patients.

“Many dental offices suffered damage or are lost. Our local dental society is publishing a weekly updated list of working dental offices around the island to help people be informed and get treatment for their dental needs.

“My people are strong, resilient and we remain positive about our future.”

The ADA and ADA Foundation are aiding the Puerto Rican dental community. The ADA Board of Trustees approved a donation of \$250,000 from the ADA to support the Foundation’s Emergency Disaster Grant Program.

The University of Puerto Rico School of Dental Medicine suffered minor damage and reopened on October 9, but many students and staff lost their homes and belongings and need support, the ADA reported (“ADA, ADA Foundation mobilize to help Puerto Rico’s dentists,” ADA News, Oct. 11, 2017)

**“Hope is the last thing lost.
Together we can
make a difference.”**

— DR. DIAZ RUBAYO



Prosthodontics resident Dr. David Diaz Rubayo has been collecting and shipping donated goods to Puerto Rico, his home country.

Colegio de Cirujanos Dentistas de Puerto, the Puerto Rican dental society, is requesting donations of money or supplies to support dentists who lost their primary home or private practice and for patients in shelters and in the most devastated towns outside of San Juan. Make donations or contribute urgently needed items through ADA.org/HelpPuertoRico.

At IUSD, Prosthodontics resident Dr. David Diaz Rubayo has been collecting critical supplies to send

to Puerto Rico, his home country. Dr. Diaz Rubayo said most essential on the list are propane fuel, D batteries, bug repellent, battery operated fans and personal hygiene products. He also will accept money to pay for shipping. Whip Mix, a dental supply manufacturer in Louisville, Ky., is helping to ship the donated supplies. To contribute to the local effort, please contact Dr. Diaz Rubayo at ddiazrub@iupui.edu.

“Hope is the last thing lost,” Dr. Diaz Rubayo said. “Together we can make a difference.”

ALUMNI EVENTS

Alumni Association Awards

2017, French Lick, IN »



Timothy Carlson

Ann Carlson

Carolyn Hansen

George Zundo

Mark Dirlam

Timothy Carlson, DDS, MSD *Distinguished Alumni Award*

A 1978 graduate of the Indiana University School of Dentistry, Dr. Timothy Carlson has been active in academic, clinical and humanitarian dentistry at home and abroad. Now in his 37th year in dental education, Dr. Carlson has contributed to the dental education of nearly 4,000 dental students and more than 100 master's students at IUSD. He is a member of or has served on the executive committee of 12 dental associations and academies. He has also volunteered as managing editor of the international journal *Operative Dentistry* for the past 17 years, all while maintaining a part-time general dentistry practice.

One of Dr. Carlson's greatest contributions to dentistry is his stewardship of volunteer oral health care programs for the underserved. He has promoted a culture of compassion at IUSD for those with little access to care and has been the primary driver for the dental school's Global Service Learning program and the volunteer Student Outreach Clinic. He and his wife Ann began serving in dental and medical clinics in Haiti immediately after dental school and have taken hundreds of students and dental supplies to impoverished communities in Haiti, Ecuador and Mexico.

A recipient of numerous teaching and faculty awards,

Dr. Carlson mentors new dentists and is an exemplary role model to faculty, students, staff and his patients. He and Ann have touched countless people across the globe with their selflessness and humanitarianism.

Ann Carlson *Honorary Member Award*

Ann Carlson has shared the passion for humanitarian health care with her husband Dr. Tim Carlson over their 42-year marriage. After the Carlsons married in 1975, Ann supported them as a nurse while Tim completed dental school. In 1978, the Carlsons moved to Vaudreuil, Haiti, where Ann was a staff nurse and Tim was a staff dentist for two years in the mission clinics. After returning to Indianapolis to raise their daughter and son, they continued their global service trips. Ann has been the sterilization assistant on numerous IUSD dental student service-learning teams to Haiti and Ecuador. She is the student-favorite support staff on these trips and an integral member of the dental team. In addition to her dental service trips, Ann was a nurse on an emergency medical team caring for post-surgical trauma patients in Haiti following the 2010 earthquake. The Carlsons are a model of partnership grounded in teamwork, generosity, selflessness and compassion.

ALUMNI ASSOCIATION AWARDS (CONTINUED)

Carolyn Hansen*Certificate of Appreciation*

Executive Director of Indiana District Dental Society (IDDS) and the IDDS Foundation since 2005, Carolyn Hansen holds a bachelor's degree from Virginia Commonwealth University and a master's degree in public administration from Indiana State University. She has led several local and state nonprofits and government agencies but says serving organized dentistry has been the greatest professional honor of her career. "Carolyn is very organized and keeps the members of IDDS well informed and their best interests in mind," said Dr. Jason Flannagan (DDS'04), IDDS immediate past president. "She does not know a stranger and honestly knows all 900 members of IDDS by name. She helps develop leaders and creates an environment where members can advance within the organization."

George Zundo, DDS*Distinguished Service Award*

Dr. George Zundo is in his third decade of continuous service to the IU School of Dentistry Alumni Association either as a board member or as the IUSD representative on the IU Alumni Association Executive Council.

A 1980 DDS graduate, Dr. Zundo is the dedicated leader of the IUSD alumni cruises. He organized the IUSD Winter College gathering in Naples, Florida, in January and is creating webinars and regional events to connect out-of-state alumni to the IUSD Alumni Association. Additionally, he is developing programs to help first-year DDS graduates transition into practice after graduation.

"George has always been the first person to volunteer for a committee, event or a student activity at the dental school," said Dr. Nancy Halsema, his 1980 DDS classmate. "He even purchases bags with the school logo for all cruise passengers and donates funds to cover the cost of a speaker."

In February 2017, IU bestowed Dr. Zundo with the Maynard K. Hine Award, named for the former IUSD dean and the first IUPUI chancellor, for Dr. Zundo's many years of service to IU and IUSD alumni.

Mark Dirlam*Certificate of Appreciation*

Mark Dirlam graduated from IU Bloomington in 1978 with a degree in art education. His first job out of college was as a graphic artist in the Dental Illustrations Department at the IU School of Dentistry. Thirty-nine years later, Mark continues to bring his creativity, collegiality and humor to Dental Illustrations and IUSD.

Mark's job has changed greatly with technology, and he is proud of his work to move Dental Illustrations into the digital age.

Mark estimates that he has worked with more than 7,000 students over four decades. He has assisted hundreds of faculty and students by sending them to their international meetings with their research posters and visual aids. He is also proud to have been part of IUSD Research Day since its inception, designing all 25 Research Day programs and helping countless students prepare their posters.



Passing the gavel

Dr. Renee Shirer (DDS'98) passed the IUSD Alumni Association presidency gavel to **Robert Eversole** (DDS'88). Dr. Eversole said his focus is building the association's membership and increasing member engagement.

IU Pediatric Dentistry Alumni Association Reception American Academy of Pediatric Dentistry

May 25-28, 2017, Washington, DC »



1. Associate Professor Juan Yepes with wife Angela and daughter Sofia
2. Rick (Peds'92) and Linda Troyer
3. Pediatrics resident Bradley Cox and big sister Andrea VanCleave (Peds'14). They plan to practice together in Olympia, Wash.
4. Pediatric Dentistry Chair Brian Sanders and IUPDAA President Vickie Hemann (Peds'97)
5. Nate Kirk (Peds'03), Andrew Williamson (Peds'11), Charlie Fuhrer (DDS'04, Peds'08)
6. Father and daughter Gary Hinz (DDS'76) and Amy Hinz Adair (Peds'12)

American Academy of Periodontology

Sept. 9-12, 2017, Boston, Mass. »



1. Bonnie and Bob (Perio'76) Sharp
2. Eugene (Dean) Nelson (Perio'76) and Tom Kepic (Perio'77)
3. Matt Rowe (DDS'10, Perio'13), Scott Reef (DDS'91, Perio'96), Mahogany Miles (Perio'14)
4. Jeff Colligan (Perio'91) and Bryan Roy (DDS'86, Perio'89)
5. Gay Derderian (Perio'92), Periodontics Chair Vanchit John (DDS'98, Perio'95), Ramz Khleif (Perio'99), Joanne Gaydos-Daniel (Perio'99) and Tony Dung (PhDDentalSci'93)

ADA Annual Meeting

Atlanta, Ga., Oct. 19-23, 2017 »



1. Rear Admiral Carol Turner (DDS'75), retired chief of the U.S. Navy Dental Corp, with husband Ken and Dean Williams
2. Ed Fischer (DDS'96) and William Hine, Jr. (DDS'96, GPR'97)
3. Jeff Stolarz (DDS'99), James Shupe (DDS'86) and Tonya Shupe, president of the Indiana Alliance
4. Andrea Ferreira Zandona (Operative'94, PhD'97) and Oriana Capin, clinical assistant professor
5. Jill (D3), Laura and Mark Stetzel (DDS'84)

6. Roland (DDS'67) and Connie (DH'67) Slyby
7. Mark Magura (DDS'87, Endo'90) was inducted into the International College of Dentists, accompanied by his son Steven (D3) and wife Amy.
8. Jill Merritt Burns (DDS'84), Jay Asdell (DDS'83) and Mara Catey-Williams
9. ADA delegates from Indiana's 7th District: new faculty member Tim Treat (DDS'16) and his IDA mentor Jeffrey Platt (DDS'84, Dental Materials'96), chair, Biomedical and Applied Sciences

Class Reunion - DDS

June 10, 2017, Indianapolis »



Class of 1957 Edward Fritz, George Peffley

Class of 1962 Front row, William Hohlt, Keith Roberts, John Rodkey, Chuck Kerkhove. Back row, Jim Frey, William Amos, Phillip Kolb, David Lux

Class of 1967 Front row, Charles Moll, Don Lintzenich, Stephen Cougill, Dennis Miller, Michael Marcotte, William Marshall, James McAllister, Wesley Peik. Back row, Chuck Hassel, Jim Barenie, Wayne Herman, Ray Snapp, Earl McKinley, John Barbour, Robert Hurst

Class of 1972 Front row, Don Walker, Brank DeBruhl, Michael McDonald, Robert Gebfert, Wiley Green, Virgil Gassoway. Back row, Perry Wainman, Edward Martin, Chester Rycroft III, Greg Crawford, Richard Demko, David Kilgore

Class of 1977 Front row, Alan Conner, John Sikora, David Burns, Jerry Babb, Rebecca Donnelson, Lynn Gitlin, Jane Taube, Robin Raub, Jack Nicewander, Barry Fritsch. Back row, Mark Lund, Mike Kelley, Charles Knepper, Mark Tatman, Dennis Ford, Rock Alling, Samuel Judd, Glen Schepers, Doug Conquest

Class Reunion - DDS

June 10, 2017, Indianapolis »



1982



1987



1992



1997



2002



2007



2012

Class of 1982 Front row, Mark Kendra, Brian Casciari, Darrell Deem, Don Klein, George Cooper, Charles Middleton. Back row, Joseph Kinder, Mark Jackson, David Butler, Jeff Buttrum, Steven Stempora, John Hennette, Jerry Rinehart

Class of 1987 Front row, David Wolf, John Greif, Lisa Lear, Charlene Drakos, Thomas Drakos. Back row, Mark Mihalo, Jeffrey Steele, Mark Fulton, David Lehman, Ty Campbell

Class of 1992 Front row, Sue Draheim, Rebecca Walker, Mary Sheehan-Stahly, Kit Palanca-Beveridge, Sandra Miles, Linda Armbruster. Back row, Scott Terry, Jerold Kouchi, Larry Caskey, Jeff Stahly

Class of 1997 Curt Warren, Tod Curtis, Dawn Durbin, Todd Carter, Scott Grasso, Tim Hoftiezer

Class of 2002 Front row, Gail Peterson, Ann Bonness, Jack Choi, Sang Kim, Erin Phillips, Jason Phelps. Back row, Rob Williams, Elizabeth Smith, Kenneth Troutman, Aidan Phan, Jill Halcarz, Kimbra Druley

Class of 2007 Front row, Allison Bergdoll, Marcus Ditto, Kristin York, Juanita Taylor. Back row, Cheryl Hartman, Phillip Stahl, Nicole Hurcomb, Carrie Fletcher-Clock.

Class of 2012 Patrick Kelly, Amanda Miller, Ali Sajadi

Class Reunion - Dental Hygiene

October 28, 2017, Indianapolis »



1962



1967



1972



1977



1982



1992



1997



2012

Class of 1962 Marybeth Woehler, Wanda Lew, Barbara Solomon, Susan Polydoroff

Class of 1967 Karen Jamison, Nannette Hornberger, Demaris Hicks, Barbara Ockomon

Class of 1972 Front row, Lyndall Bradfield, Martha Adamsky, Cynthia Eversman. Back row, Victoria Cloyd, Nancy Waggoner, Connie McDonald

Class of 1977 Front row, Brenda Embry, Linda Flynn, Deb Hinman, Barbara Dean, Deborah Danner. Back row, Connie McCammon, Becki Kline, Devonee Lindemann-Hackett, Marlene Walker

Class of 1982 Marcia Mankin, Susan Kenfield

Class of 1992 Front row, Monice Gall, Sharon Query, Suzann Crouch, Kim Cundiff, Beth Schall, Darlene Carter. Back row, Christine Splater, Shana Creel, Gretchen Willkie, Lisa Maxwell, Tommi Woloshin, Shelly Schrock

Class of 1997 Aleksandra Pavoltskaya, Janalee Reeves, Jennifer McKee, Yaping Bei

Class of 2012 Front row, Erin Rayls, Maggie Ombrembowski, Lauren Prible, Ashley McGathey. Back row, Matti Norman, Melanie Korenski, Ashantae Powell

FACULTY NEWS



Brooke Adams



Odette Aguirre



Susanne Benedict



Dr. Tamara Button



James Jones



Angeles Martínez-Mier



Gerardo Maupomé



Dean Morton



Greg Phillips



Twyla Rader



Armando Soto



Tim Treat



Chandler Walker



Gail Williamson



Susan Zunt

Dr. Brooke Adams (DDS'05), clinical assistant professor, Department of Cariology, Operative Dentistry and Public Health, was named the Indiana Dental Association's Outstanding Teacher of the Year.

Dr. Odette Aguirre, assistant professor, Biomedical and Applied Sciences, received the Johnson Public Health Community Service Award for her numerous service learning trips with IUSD students to her home country of Guatemala.

Dr. Susanne Benedict (DDS'98) has increased her faculty role to full time as a visiting clinical assistant professor. She is teaching courses in radiology and professionalism and ethics.

Dr. Tamara Button (DDS'05, Peds'07) has returned to IUSD to serve as director of Community-Based Dental Education in the Department of Cariology, Operative Dentistry and Dental Public Health. She is developing rotations for fourth-year DDS students in safety net dental clinics around the state for low-income and underinsured patients.

Dr. James Jones (Peds'80) is stepping down from his leadership role as chair of Pediatric Dentistry. He will continue as faculty for graduate pediatric residents. Dr. Jones joined the IUSD pediatrics faculty in 1983 and has been professor and chair of Department of Pediatric Dentistry since 2005. He holds the Paul E. Starkey Dental Research Professorship and is adjunct clinical professor of pediatrics at the IU School of Medicine.

Dr. Angeles Martínez-Mier (Preventive Dent'95), professor and chair of Cariology, Operative Dentistry & Dental Public Health, was co-investigator of a study that showed fluoride in the urine of pregnant women was correlated with lower measures of intelligence in their children. The study, published in the September 2017 issue of *Environmental Health Perspectives*, is the first of its kind and size to examine fluoride exposure and multiple states of neurodevelopment. Dr. Martínez-Mier was interviewed on CNN and CTV because of her expertise in fluoride measurement.

Dr. Gerardo Maupomé has been named associate dean for research at the Fairbanks School of Public Health. He will continue as adjunct faculty at IUSD. Dr. Maupomé was principal investigator of a study published in the October 2017 issue of *The Journal of the American Dental Association*, "Survival analysis of metal crowns versus restorations in primary mandibular molars." Co-authors were Pediatrics faculty **Dr. Juan Yepes** and **Dr. LaQuia Vinson**.

Dr. Dean Morton, chair, Prosthodontics, and assistant dean for strategic partnerships and innovation, was awarded fellowship in the Faculty of Dental Surgery of the Royal College of Scotland.

Dr. Greg Phillips (DDS'84, Perio'92), Periodontics and Allied Dental Programs, was elected president of the Indiana Dental Association for 2017-2018.

Twyla Rader (DH'88, Public Health DH'10) has joined the Dental Hygiene faculty full time as clinical assistant professor. Rader worked in private practice for 27 years and has taught part time at IUSD since 2010. She recently completed a master's degree in educational learning and technology.

Dr. Armando Soto has been named director of civic engagement, responsible for IUSD's community-based oral health access programs, including SEAL Indiana, health promotion at schools and community centers, and free and discounted services for domestic abuse victims. He also supports services for veterans and IUSD's Global Service Learning trips.

Dr. Tim Treat (DDS'16) has joined the faculty in a new visiting clinical faculty fellowship position in Comprehensive Care and General Dentistry. IUSD created this fellowship to cultivate interest in faculty careers among recent graduates. Dr. Treat completed a graduate practice residency in June at the Richard L. Roudebush VA Medical Center in Indianapolis. He was president of the 2016 DDS class and has served as chair and board director of the ADEA Council of Students, Residents and Fellows.

Dr. Chandler Walker has joined the Department of Biomedical and Applied Sciences as assistant professor. Previously a post-doctoral fellow in the Department of Anatomy and Cell Biology and in Neurological Surgery at the IU School of Medicine, Dr. Walker is teaching head and neck anatomy and in the systems approach to biomedical sciences course. His research focuses on understanding the progression of tissue pathology following peripheral and central nervous system injuries and diseases and how pharmacological, cell-based and combination therapies can improve regenerative and neurological outcomes.

Gail Williamson (DH'74), professor, Oral Pathology, Medicine and Radiology, has been appointed acting assistant vice chancellor for IUPUI Faculty Affairs.

Dr. Susan Zunt (Oral Path'80), professor and chair, Oral Pathology, Medicine & Radiology, was elected vice president of the American Board of Oral and Maxillofacial Pathology.

Chairs named for Pediatrics and Orthodontics



Dr. Brian Sanders has been named chair of the Department of Pediatric Dentistry. Dr. Sanders joined the IUSD pediatrics faculty in 1990. He has served as director of

Predoctoral Pediatric Dentistry, director of the James Whitcomb Riley Hospital for Children Dental Clinic and director of the Postgraduate Pediatric Dentistry Training Program. Dr. Sanders graduated from the Baltimore College of Dental Surgery at the University of Maryland and completed his pediatrics certificate at Children's Hospital in Columbus, Ohio, where he was chief pediatric resident. He then received a master's degree in pediatric dentistry at Ohio State University. He has also served as director of the dental department at the Kennedy Institute for Handicapped Children and as division head of pediatric dentistry and program director of post-graduate pediatric dentistry at Children's Memorial Hospital in Chicago.



Dr. Kelton Stewart has been named interim chair of the Department of Orthodontics and Facial Genetics. Dr. Stewart is the Dr. James J. Baldwin

Professor of Orthodontics and has been serving as program director of the Orthodontics graduate program and director of the Orthodontics Clinic. He is a Texas native who joined IUSD's Orthodontics faculty in 2008. He received his BA, DDS certificate in Orthodontics and a master's degree in health professions at Baylor University. Dr. Stewart is president-elect of the American Association of Orthodontists Society of Educators and president of Student Clinicians for Advancing Dental Research and its Applications. The Indiana Dental Association recognized him with the 2017 Outstanding Faculty Member of the Year award.

BRIDGES



Dr. Lawrence Garetto, professor of Oral Pathology, Medicine & Radiology, departs IUSD at the end of 2017 after serving at the dental school for 29

years. Dr. Garetto was director of the Bone Research Laboratory, served as associate dean for Dental Education, taught in Orthodontics and Facial Genetics and was instrumental in developing the dental school's ethics curriculum.

"One of Larry's many strengths has been to move people and issues forward, compelling progress and achievement. It is with that devotion that he was responsible for developing the ethics curriculum at IUSD to one of the more robust dental school programs in the country," said colleague Dr. Susanne Benedict (DDS'98), visiting clinical assistant professor.

Before transitioning his academic focus to bioethics and professionalism, Dr. Garetto was a research scientist who spent more than a decade conducting NASA and NIH-funded bone research. In the early 1990s, Dr. Garetto pursued advanced training in bioethics when IUSD began introducing small group, problem-based learning into the dental school curriculum.

"Larry always has something to add that enlivens and deepens discussions," says Dr. Peter Schwartz, associate professor of medicine and philosophy and interim director of the IU Center for Bioethics. "He embodies the term 'lifetime learner' for me, and I'm sure he will continue to be that during retirement."

Dr. Garetto and his wife Denise have built their dream home in Port Orchard, Wash. It includes an artist's studio where he looks forward to creating woodwork and sculptures.



Dr. Katherine Kula, the Joseph R. & Louise Jarabak Endowed Professor of Orthodontics, is retiring from the Department of Orthodontics and

Oral Facial Genetics, where she has served as chair since 2008. Dr. Kula has taught, practiced pediatric dentistry and orthodontics, conducted research and served as a leader in academic dentistry for 40 years. She was instrumental in developing the biennial Burstone Symposium at IU, honoring the late Dr. Charles Burstone, known as the father of biomechanics in orthodontics.

Drs. John S. Kishibay (Ortho'77) and Donna Eteson (Ortho'77) created an endowment at the IU School of Dentistry to support Orthodontics research. "Kathy has been a superb chair – always professional, knowledgeable and highly effective at using resources and funding to further the education of her residents and improve the science and practice of orthodontics," Dr. Kishibay said.

Dr. Kula plans to enjoy spending more time with her loving family and pursuing her many hobbies during retirement. Her passion, fire and grit will be missed.



Dr. Edwin "Ted" Parks (Dental Diag Sci'95), professor emeritus of Oral Pathology, Medicine and Radiology, is retiring after 26 years of teaching

radiology at IUSD. Known for his rich baritone voice, unique sense of humor and engaging presentations, Dr. Parks can turn a phrase. Student favorites are, "There's no friendly photon" or "Just take it, Man."

Dr. Parks made significant contributions to the Department of Oral

Pathology, Medicine and Radiology and the discipline of Oral and Maxillofacial Pathology throughout his academic career. He was a member of the IUSD Forensic Identification Team and served as a forensic dental consultant throughout the state.

"Ted is an internationally recognized expert in radiology, and a highly respected and beloved educator, director, mentor, presenter, colleague, dentist, author and more," said Dr. Susan Zunt, chair, Oral Pathology, Medicine & Radiology.

Enjoy your retirement, Dr. Parks, and "don't be a slave to the ring."



Nancy Young, associate professor, Periodontics and Allied Dental Programs, is retiring after serving the IUSD Dental Hygiene program for almost

35 years. A graduate of the program, she joined the faculty in 1983 and served as director from 2001 to 2012. Professor Young was a coordinator for the Indiana State Department of Health Sealant Assistance Program, performed clinical research activities at the Oral Health Research Institute and served as a volunteer for a Homeless Shelter screening program and Project SHAPE, an oral screening program. She received the IUSD Alumni Association's Dental Hygiene Distinguished Alumnus Award and the Teaching Excellence Recognition Award.

"Nancy Young is an amazing educator," said Professor Lisa Maxwell, Dental Hygiene program director. "She is so good at what she does and makes it look effortless. I always enjoyed listening to her lectures, hoping some of what she said or did would rub off on me."

PASSAGES



William Browning

Dr. William Browning was professor emeritus of Operative Dentistry and Indiana Dental Association Endowed Chair in Restorative Dentistry.



David Hennon

Dr. David Hennon (DDS'60) was on the IUSD faculty for 35 years, retiring in 1995. He was part of IU's Craniofacial Team at Riley Hospital for Children, specializing

in the treatment of cleft palate children. He developed an appliance that covers the palate, enabling babies with a cleft palate to nurse. He also was a member of the team that researched the use of fluoride treatment in oral health.



Norris Richmond

Dr. Norris Richmond (DDS'63, Operative Dentistry '65) was one of IUSD's first full-time African American faculty members. He received his DDS and master's degree in Operative Dentistry in the 1960s after serving as a dental technician and dental hygienist in the U.S Air Force. Here, Dr. Richmond conducts the IUSD choir at the annual holiday party in 1981.



Paul Walker

Dr. Paul Walker (Peds'72) flew from his home in Minnesota two days a month to mentor students in the Pediatric Dentistry program as volunteer faculty. "Paul was a dear friend who felt extreme loyalty to Indiana University," said Dr. David Avery (DDS'66, Peds'70). He was energetic, kind, generous and so respectful of others. He dedicated his career to improving the quality of life for as many children as he possibly could." Dr. Walker received the IU Pediatric Dentistry Alumni Association (IUPDAA) Distinguished Alumnus award in 2003 and was the first lifetime member of the IUPDAA.

1940s

Stanley Schwartz, DDS'45, Port Chester, NY, Oct. 31, 2017

1950s

John P. Berger, DDS'54, Fort Wayne, Ind., June 4, 2017
 Charles R. Bewick, DDS'53, Valparaiso, Ind., Nov. 11, 2017
 Carol A. Caudill, ASDH'57, Columbus, Ind., Oct. 1, 2016
 R. Joseph Clark, DDS'56, Ortho'74, Seymour, Ind., Jan. 23, 2017
 Richard P. Henderson, DDS'56, Wilson, Wyo., July 5, 2017
 Alice "Elaine" (Lampson) Lovan, ASDH'55, Elkhart, Ind., Oct. 27, 2017
 Donnell C. Marlin, DDS'56, Noblesville, Ind., May 13, 2017, forensic dentistry faculty
 Betty J. (Barr) McKee, ASDH'57, Terre Haute, Ind., June 23, 2017
 Ronald G. Melser, DDS'56, Mishawaka, Ind., Oct. 3, 2017
 Robert L. O'Neal, DDS'51, Savoy, Ill., Jan. 7, 2017
 Orbrey O. Phipps Jr., DDS'56, Indianapolis, July 17, 2017
 Pauline C. Revers, ASDH'52, Louisville, Ky., Oct. 8, 2017
 Phyllis "G.G." E. (Wolf) Rhodes, ASDH'56, Cincinnati, Ohio, May 6, 2017
 Donald C. Tyte, DDS'51, Bloomington, Ind., Aug. 7, 2017
 Robert V. Webb, DDS'52, Mt. Pleasant, S.C., May 15, 2017

1960s

Richard L. Day, DDS'62, Wabash, Ind., Sept. 21, 2017
 Philip L. Drake Jr., DDS'63, Bloomington, Ind., Sept. 19, 2017
 James P. Edwards, DDS'63, Tehachapi, Calif., Aug. 13, 2017
 Charles R. Epperson, Jr., DDS'65, Indianapolis, Nov. 14, 2017

Max E. Feters, Peds'67, Carmel, Ind., Sept. 25, 2017
 David R. Fink, DDS'64, Noblesville, Ind., May 31, 2017
 David K. Hennon, DDS'60, Peds'75, Ortho'83, Indianapolis, May 25, 2017
 Robert A. Martin, DDS'62, Prescott, Ariz., Jan. 27, 2017
 Dennis M. Miller, DDS'67, Granger, Ind., Sept. 24, 2017
 Don C. Nesler, DDS'60, Perio'62, Dec. 3, 2017, part-time Periodontics faculty
 Byford L. Reed, DDS'60, Greenwood, Ind., Aug. 15, 2017
 Norris L. Richmond, DDS'63, Oper Dent'65, Indianapolis, May 24, 2017
 John T. Russell, DDS'62, Kettering, Ohio, Aug. 24, 2016
 Ernest W. Scheerer, DDS'61, Honolulu, Hawaii, May 18, 2017
 Richard K. Shelly, DDS'69, Bonita Springs, Fla., Aug. 31, 2017
 William E. Teschner, DDS'63, Port Saint Lucie, Fla., Oct. 23, 2017
 Clarence "Bud" E. Wentz, DDS'62, Lubbock, Texas, Nov. 27, 2017

1970s

James R. Hull, DDS'77, Loveland, Ohio, July 1, 2016
 Paul O. Walker, Peds'72, Shoreview, Minn., Nov. 6, 2017, clinical assistant professor in Pediatric Dentistry
 James E. Williams, DDS'72, Ortho'74, Fort Wayne, Ind., May 18, 2017

1990s

Armando Blardonis, DDS'90, Weston, Fla., Sept. 7, 2017
 Timothy S. Weeks, DDS'91, Greenwood, Ind., July 12, 2017

SCHOLARSHIPS

GROWING NUMBER OF SCHOLARSHIPS SUPPORT STUDENTS

There were smiles all around for students and the donors who help to support their dental education. More than \$150,000 in scholarships was awarded at the annual recognition program, held Nov. 9, 2017, at Regions Tower in Indianapolis. Great thanks to all of our generous donors.



SCHOLARSHIPS AWARDED

NOV. 9, 2017



1. D4 Hailey Wilson received the Charlie Flannagan Family Scholarship from Mark (DDS'89) and Sean Flannagan.
2. Dr. Haydar Abdulameer received the class of 1980's first scholarship, awarded by 1980 DDS graduate Dr. Joe Inman.
3. The families of IUSD graduates James Platt, Jeffrey Platt, Jay Platt and Joseph Platt created this new scholarship to encourage student research and scholarship. Dr. Jeffrey Platt (DDS'84, Dental Materials'96) and his wife Catherine awarded the scholarship to D3 Alec Willard.
4. Members of the Piedmont Dental Study Club, DDS class of 1971, established this scholarship in honor of their classmate

- Dr. Steven L. Davis. Dr. Jerry Holman (DDS'71) awarded the first scholarship to Amanda Disney (D1).
5. Dental Hygiene student Xueqi Song received the IUSD Diversity Dental Scholarship from Dr. Robert Stokes (DDS'72), who created Dental Hygiene and DDS scholarships with Dr. Michael Bennett (DDS'79, OMFS'82), Assistant Professor Dr. LaQuia Vinson and the late businessman William Mays to help support underrepresented minority students.
 6. The inaugural Dr. Vance Lopp Pre-Doctoral DDS Scholarship was awarded to Trevor Furnish (D2), pictured here with his wife Moriah and Dr. Lopp, a 1965 DDS graduate who practiced in Syracuse, Ind.

7. D3 Natalie Lorenzano received the Angela Hazlewood Murat Memorial Scholarship from Amy and Bob Hazlewood, parents of the late Dr. Angela Hazlewood Murat, a 2004 DDS graduate.
8. Dr. James (DDS'71) and Lana Fritts of Rochester, Ind., established this scholarship last year to assist pre-doctoral students from north central Indiana. They are pictured here with this year's recipients: front row, Amber Jaress (D1), Sara Musselman (D2), Shaun Herron (D2); back row, Sable Staller (D3) and Bennett Hollar (D2).



from the **ASSISTANT DEAN
OF DEVELOPMENT**

John Hoffman

TEACHING THE NEXT GENERATION about philanthropy

On many occasions during my 15 years serving in a development role at the IU School of Dentistry, I have been asked, “What are we doing to educate the current students about giving back to the school in their future?”

Indeed, such an inquiry is an interesting and fair question. I feel a strong sense of responsibility to transfer my experience and passion for development to inform and educate the next generation of dental professionals about someday giving back to IUSD. But truly, the best teachers of the desire and passion to give back are you!

I am a big believer in the saying, “Actions speak louder than words.” I talk with the students about philanthropy, but I also realize that during the rigors of dental school, future philanthropy may be one of the last things our students are thinking about. I tend not to overwhelm students with the notion of giving back. Rather, I plant seeds. Sharing stories about the reasons our alumni give back is powerful. By expressing how philanthropy illustrates your value and gratitude for the profession of dentistry and the education you received at IUSD, I can paint a picture for our students to contemplate and internalize. Your selfless actions are my best lessons!

Indications of your philanthropy are everywhere at the dental school. Endowed scholarships, benches in the pre-doctoral bench laboratory, funds to sponsor student activities, student scholarships...I could go on and on. The most recent example: all 125 operatories and 27 other designated spaces in the new clinical addition scheduled to open in the spring of 2018 are sponsored by alumni and friends of the dental school.

I cannot think of a better way to educate our current students about the impact of private support than for them to be learning the tools of their profession in a new state-of-the-art facility where literally signs (naming recognitions) of your loyalty and generosity abound. More importantly, it is what each naming opportunity represents that really matters. Your appreciation for your education and your desire for future practitioners to experience a successful career in oral health permeates our dental school environment. Therein lies the educational element of philanthropy that you so generously make visible on a daily basis.

On behalf of Dean Williams and our entire development team, thank you for continuing to share your time, talent and treasure to make our school better. It is truly valued and never taken for granted.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Hoffman'.

John Hoffman
Assistant Dean of Development
Indiana University School of Dentistry
jhoffma@iu.edu
(317) 274-5313



ADAM VAN ZEE

Major and Planned Giving Officer

INVESTING IN THE FUTURE OF IUSD with a planned gift

As momentum for the Indiana University For All Campaign continues to build, it is even more important to think about how you may want to leave a legacy at IUSD.

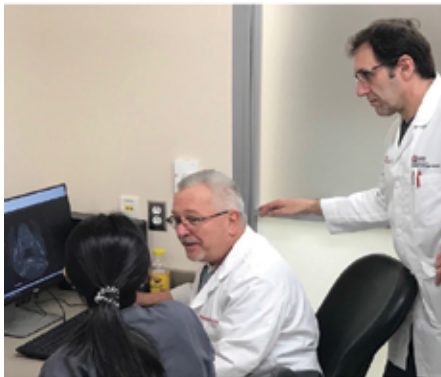
Becoming a member of the IU Arbutus Society with an estate gift allows you to define your legacy and invest in the future of IUSD. You can ensure that the dental school understands your wishes so that your gift will be used exactly as you intend. It also provides us an opportunity to recognize your gift. Part of that recognition is your induction into the Hine Legacy Society, which will celebrate its 20th anniversary next spring.

I find myself in awe of the dedication shown by our alumni. Each day I walk by the new Fritts Clinical Care Center and watch the construction progress, I am reminded of the people who have pledged their support and believe in the vision

to make IUSD one of the best dental schools in the country. I also think of the thousands of alumni who give gifts that support capital improvements, scholarship opportunities to ease student debt and establish faculty chair positions. The positive impact of these gifts on our faculty and students lasts generations.

I hope those of you who already designated the IU School of Dentistry in your estate will please notify us of your plans so that we may express our appreciation. If you would like more information on how you can make a difference in the future of dental education at Indiana University, please contact me at acvanzee@iupui.edu or 317-278-2852. Thank you once again for your continued support of IUSD.

SAVE THE DATE! IUSD Research Day APRIL 9, 2018



The office of Continuing Education presents **"Integrating Contemporary Digital Technology Into Your Practice,"** presented by faculty from IUSD's Center for Implant, Aesthetic and Innovative Dentistry. This continuing education course will be offered from 9 am to noon right before the 26th Annual Research Day.

The afternoon will feature keynote speaker *Dr. Raul Garcia* from Boston University, presenting **"Science and Dental Practice,"** along with a vendor fair and poster presentations from IUSD students highlighting recent scientific discoveries.

Tuition for the morning session is **\$100** and includes breakfast and lunch. Stay for the entire day for only **\$150**.

The event will be held at the IUPUI Campus Center. Stay tuned for registration information!



INDIANA UNIVERSITY
FULFILLING *the* PROMISE

DEAN'S SOCIETY

The Indiana University School of Dentistry gratefully acknowledges the following individuals for their generous support of the school's efforts in the past fiscal year. The Dean's Society recognizes gifts of \$1,000 or more, given between July 1, 2016, and June 30, 2017. Dean's Society members gathered for a dinner reception on Oct. 27, 2017, at the Woodstock Club in Indianapolis.

Gold Members

\$100,000 and above

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** Denotes deceased*



INDIANA UNIVERSITY SCHOOL OF DENTISTRY

**January 27 -
February 3
2018**

**IUSD Caribbean
Cruise**
Leaving out of
Port of Miami, FL

**Friday
February 23
2018**

**IUSD Reception
at the Chicago
Midwinter
Dental Meeting**
5:30 – 6:30 pm
Location: Room
CC12B
Hyatt McCormick
Place
Chicago, IL

**Saturday
May 5
2018**

**American
Association of
Orthodontists
Indiana
Reception**
7:30 – 9:00 p.m.
Marriott Marquis
Hotel
Washington, DC

**Saturday
May 19
2018**

**IUSD Alumni
Reunion, Class
Dinners and
Huckelberry Golf
Outing**
Location: French
Lick Springs
Resorts
French Lick, IN

**May 24-27
2018**

**American
Academy
of Pediatric
Dentistry Indiana
Suite**
5:00 – 11:00 p.m.
Hilton Hawaiian
Village Hotel
Honolulu, HI

For more information about these events contact Karen Jones, Office of Alumni Relations, at 317-274-8959 or kdeery@iupui.edu

Sign Up Now for the Indiana University School of Dentistry 7 Night Hawaiian Islands Cruise October 20-27, 2018.

Join Dean John Williams and IUSD Alumni for an 8 day/7 night cruise of the Hawaiian Islands on Norwegian Cruise Line's *Pride of America*. We will sail from Honolulu on Saturday, October 20, 2018. Many of you will already be in Honolulu for the ADA Annual Session, and we thought this would be a fun way to extend our time in Hawaii. We plan to offer continuing education while on the ship.



Cruise Itinerary

10/20/18	Honolulu	7pm Set Sail
10/21/18	Kahului, Maui	8am – overnight
10/22/18	Kahului, Maui	Depart 6pm
10/23/18	Hilo	8am – 6pm
10/24/18	Kona	7am – 5:30pm
10/25/18	Nawiliwill, Kauai	10am – overnight
10/26/18	Nawiliwill, Kauai / Napali Coast	Depart 2pm
10/27/18	Honolulu – Disembarkation	7am

Double Occupancy Cruise Pricing

Mid-Ship Balcony (BA) \$2,269 pp
 Mid-Ship Balcony (BB) \$2,259 pp
 Balcony (BC, BD, BE) \$2,249 pp
Single, Third & Fourth guest and Suite pricing available upon request (subject to availability and not guaranteed)

Deposit: \$250 per person, Final payment: July 9, 2018
 Additional port taxes & fees: \$120.79 per person*
 Additional government taxes & fees: \$100 per person*
 *Subject to change

Please call Ambassador Cruise Desk at 317-218-0802 or
800-225-9919 ext. 283 Mon. – Fri. between 8:30 am – 5:30 pm to book your cruise or ask questions.



SCHOOL OF DENTISTRY

INDIANA UNIVERSITY
Indianapolis

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YOU'RE INVITED!



Dedication of the **JAMES J. FRITTS, DDS CLINICAL CARE CENTER**

DATE & TIME

Friday, March 2, 2018 at 2PM

PLACE

**New IU School of Dentistry Courtyard
1121 W. Michigan St.**

**Indiana University President
Michael McRobbie presiding**

Reception to follow