

INDIANA
UNIVERSITY
SCHOOL OF
DENTISTRY



Close to Home 16 Tech BioPark – IUSD Opportunity?

16 Tech – sited for just north of the IUPUI campus and dental school – is a planned Innovation Community and one of the largest talent attraction, retention and development opportunities in Indianapolis' history. The **Innovation Community is** purpose-built to attract the best talent to collaborate, innovate and commercialize new ideas across a spectrum of advanced industries, including life sciences, technology and advanced manufacturing. The community is built to respond to the way innovation occurs today in open environments where collaboration occurs naturally, while breaking down barriers that sometimes exist in the cross-pollination of ideas across industries. A focus of 16 Tech will be nutritional and metabolic diseases - a potential collaboration with IUSD.

To learn more on 16 Tech, click <u>here</u>.

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I am just back from the 2016 Chicago Midwinter meeting and much of the exhibit hall was filled with digital dentistry. As I reflect on our future, it is very clear to me that a new wave of powerful low-cost technology is at hand to improve the provision of oral health care. This explosive growth in digital dentistry is characterized by digital impressions, CAD/CAM technology, CBCT/panoramic imaging and 3D bio-printing. Our challenge is to sort out fact from fiction to better improve the oral health of the public at a potentially lower cost. As we think about how IUSD can incorporate these exciting new technologies, we have the unique opportunity to bring the best of the best into clinical care as part of the new building. Investing in digital dentistry is another example to advance the Mission and the Vision of IUSD to make Indiana.... one of the best dental schools of the 21st century.

New Dental Building Groundbreaking Date Set: September 23, 2016

During the months of January and February 2016, we have been working diligently with the architects to finalize the conceptual design of the new clinical building. This design phase is complete as of March 1, and now the architects turn their attention to the detailed construction design. We are organizing small groups of IUSD faculty and staff to review the details and offer suggestions for optimal functionality of the various clinical operations. We have reviewed several options for the new building based on a variety of constraints, and will have an extremely useful new addition to enhance our clinical education program, anticipated for summer 2018. The physical work will probably begin this summer, and the ceremonial groundbreaking will be held Friday, September 23, in conjunction with our IUSD Board of Advisors, IU Dental Alumni Association and annual Dean's Society dinner. Thank you for your continued belief in the possibilities — we are getting closer to the construction phase of this project!

Think It Make It Lab @Herron Art IUPUI

Herron's <u>Think It Make It Lab</u> turns ideas into reality with its innovative structure. The lab contains tools such as laser engravers and 3-D printers to help express creativity in innovative new ways. A point of intersection between traditional creative processes and emerging technology, the lab has become a hands-on resource to help in both academic projects and in the real world. The lab encourages students and faculty to work individually or collaboratively in research, design, digital fabrication and production methodologies that combine research exploration with an appreciation of art and design.

Chancellor's Report to the Community 2016

Chancellor Paydar, who was appointed to his position in June 2015, provided an overview of the trends in contemporary higher education with a keen focus on IUPUI. The Chancellor shared information on Today's IUPUI – student profile, programs overview and campus and facility updates. In looking to the future, he shared thoughts on Tomorrow's IUPUI – campus growth and student success strategies. His campus priorities are the Welcoming Campus Initiative and the Indiana University Bicentennial Campaign. Along the way, he gave a very nice "shout out" to IUSD on the new building project, which is moving forward rapidly.

WOW!......Researchers Use Living Cells, Special Gel To Print Human Body Parts

As reported in the ADA Morning Huddle and Reuters (2/15, Boggs), researchers at Wake Forest School of Medicine have developed a method of 3D printing that can produce bone, muscle and cartilage templates, which can then be implanted and survive in living tissue. The team said that five months after being implanted in mice, the templates appeared similar to normal human tissue. The findings were published in the journal Nature Biotechnology. NBC News (2/15, Fox) reported that researchers "used a combination of living cells and a special gel to print out living human body parts – including ears, muscles and jawbones." Their "approach mixes live cells with a gel that starts out as a liquid but quickly hardens to the consistency of living tissue, and layers them in with tiny tunnels that serve as passages for nutrients to feed the cells until blood vessels can grow in and do the job naturally." BBC News (UK) (2/16, Gallagher) reports that the process is called the Integrated Tissue and Organ Printing System (ITOP). Also providing coverage were the Independent (UK) (2/15, Gallagher), Popular Mechanics (2/15, Herkewitz), Gizmodo (2/15, Dvorsky), the Chicago Tribune (2/15, Graham), and HealthDay (2/15, Norton). Think about the application of digital dentistry and the possibilities for OMFS, Periodontics, Prosthodontic and Restorative care for our patients.

Maxillofacial Star – Mr. Shirley Anderson – featured on WTHR Channel 13

In case you missed it, IUSD residents, staff and other IUPUI programs contributed to a wonderful TV news story about what modern day maxillofacial prosthodontics can do using the art and science of digital dentistry to restore an individual's face. Take a look at this amazing team effort lead by IUSD. Bravo!

A Modest Proposal: Eliminate Email (Carl Newton – Harvard Business Review)

Thanks to his continual scan of the academic and leadership literature, Dr. Vanchit John, chair of Periodontics and Allied Dental Programs, has shared with us a "modest proposal" published by the Harvard Business Review (Feb. 16, 2016) to eliminate email from our busy lives. The idea is simple: employees no longer have personalized email addresses. Instead, each individual posts a schedule of two or three stretches of time during the day when he or she will be available for communication. During these office hours, the individual guarantees to be reachable in person, by phone, and by instant messenger technologies. Outside of someone's stated office hours, however, you cannot command their attention by email. If you need them, you have to keep track of what you need until they're next available. On the flipside, when you're between your own scheduled office hours, you have no inboxes to check or messages demanding response. You're left, in other words, to simply work. What a novel concept: uninterrupted thinking and work time! Good idea, Vanchit. I like it!

Coffee, Donuts & Fruit on Friday - Student Lounge

Join us this Friday, March 4, from 7:30 to 9 am for the monthly First Friday school gathering. Complimentary coffee, donuts, and fruit will be served in the student lounge.

Upcoming IUSD Events

- March 6 12, National Dental Assisting Recognition Week
- o March 12 15, ADEA in Denver
- March 16 19, AADR in Los Angeles IUSD Reception, March 16, JW Marriott Los Angeles
- o March 14 18, IUSD & IUPUI Spring Break
- Monday, April 11 IUSD Research Day
- Friday, April 29 IUSD Board of Advisors Spring Session
- o May 7-8, 2016 IUSD Commencement Weekend



Thanks to each of you for your dedication to and support of the Vision and Mission of IUSD. We will be back downstairs in the Student Lounge next month for First Friday morning coffee and donuts along with the April edition of First Friday...Dean's Update.

-John

Check out all the current IU
Dentistry news on our website:
www.dentistry.iu.edu
or on our Facebook page:
www.facebook.com/IUDentistry