

Indiana University School of Dentistry Highlight Report 2012

<http://www.iusd.iupui.edu>

TEACHING and LEARNING

- Office of Academic Affairs Indiana University School of Dentistry (IUSD) prepares students to enter into the independent practice of dentistry as competent graduates. To maintain that commitment IUSD restructured its Education Office in July 2011 to create the new Office of Academic Affairs. The new office oversees and administers all academic programs for the dental school, to ensure full accreditation status, administer academic policies, review, modify and implement the dental curriculum, and conduct regular assessment of all academic programs to assure desired outcomes.
- Completion of the Simulation Lab The doors of the new Indiana Dental Association Preclinical Laboratory opened for students in August 2011. This facility is providing students with state-of-the-art learning technologies like [patient simulators](#) that allow immediate introduction of students to the treatment of patients, while sending images to the students' flat-screen TV's. Additionally, there are 6 new digital radiography units, and 3 [E4D CAD CAM units](#) that allow students to scan, design, and mill glass ceramic restorations. Finally, the lab provides interactive, virtual sense of touch experiences with [3D Haptic Technology](#). Using a grant from IUPUI's Center for Teaching and Learning, the school is serving as a testing site for the use of this new technology for dental student education, one of the first US dental schools to be involved.
- Accreditation/DDS Curriculum Renewal The school of dentistry's next accreditation site visit will take place in September 2013. The school began its preparations in December 2011 for this visit, with faculty and staff currently in the process of preparing IUSD's self-study for the Commission of Dental Accreditation (CODA). CODA has added several [new accreditation standards](#) on which dental schools will be judged, including, for example, "commitment to a humanistic culture and learning environment that is regularly evaluated." To help support this important assessment process, the school was able to obtain a grant through the Program Review and Assessment Committee (PRAC) from the Office of Planning and Institutional Improvement at IUPUI.
- Community-Based Dental Education Courses Service-Learning is a strong component of IUSD's co-curriculum and strongly embraced by the IUPUI campus as an element of the RISE initiative (Research, International, Service Learning and Experiential). IUSD developed a new Community Based Education Course in 2011/12 with a series of alternatives over the 4-year curriculum, that aim at connecting meaningful community experiences with academic and professional growth, as well as civic responsibility for its students. One example is the IUSD partnership with an [emerging dental school in Kenya](#) at Moi University.
- Interprofessional Education (IPE) The school has been working on enhancing the curriculum to prepare dental students to work with other health professions students as a team with the common goal of creating a safer patient-centered health care system. This initiative was fostered by the American Dental Education Association (ADEA) in May 2011, who, along with 5 other national health professions, released the [Core Competencies for Interprofessional Collaborative Practice](#). Faculty are implementing initial opportunities in didactic, OSCE, and patient-care settings to develop this theme.
- International Dentists Program (IDP) In 2011/12 IUSD developed an Indiana University-International Dentist Program (IU-IDP). The program change was submitted to the Commission on Dental Accreditation (CODA), and the commission adopted a resolution to approve the report of the program change in February 2012. This has allowed the school to move forward with program development. The initial entering class for this two-year program is expected to start on January 1, 2013. The goal of this program is to graduate highly competent and productive dentists who have received their initial dental education and degree from a non-US CODA accredited dental education program and who desire to remain in the United States following graduation from IU's accredited DDS program.

RESEARCH, SCHOLARSHIP and CREATIVE ACTIVITY

- [Dr. Angeles Bruzzaniti](#) is Co-Principal Investigator with [Dr. Melissa Kacena, Orthopedic Surgery](#) on an NIH R01 titled *Regulation of Osteoblast Function by Megakaryocytes Key Signaling Proteins*, \$159,005 in YR1.
- [Dr. Richard Jackson](#) is Principal Investigator for the subcontract with University of Michigan's NIH U01 award titled *Predicting Caries Risk in Underserved Toddlers in Primary Healthcare Settings for a total amount of approximately \$1.7M*.
- The [Preventive and Community Dentistry/Oral Health Research Institute](#) research faculty continues to receive numerous lucrative sponsored research industry awards, \$3,944,059, FY 11-12. [Dr. Domenick Zero](#) is Principal Investigator for five GlaxoSmithKline (GSK) awards related to *In Situ* dental erosion and caries prevention clinical studies for a total of \$2,393,266. [Dr. Angeles Martinez-Mier](#) is the Principal Investigator for one GSK award related to the [clinical efficacy of fluoride products and optimizing oral hygiene practices](#) for a total of \$197,616. [Dr. Anderson Hara](#) is the Principal Investigator on one GSK award related to dental [erosion and remineralization](#) for a total of \$310,253.
- The industry awards consist of [clinical trials](#), *in situ* model studies, [bioresearch](#), and [laboratory testing](#). Research awards are mainly related to the [prevention of dental caries](#) and [dental erosion](#), including evaluating and improving the [clinical efficacy of fluoride products and optimizing oral hygiene practices](#). The Oral Health Research Institute has served as the University's core research facility for oral health care. The Institute's research has contributed significantly to local, state, national and international oral health science. By employing over 70 full-time faculty and staff, participating in numerous industry, government research, clinical and testing programs, it is a major participant in local economic development.

CIVIC ENGAGEMENT

- IU School of Dentistry created a new office (Office for Civic Engagement) and position (Director of Civic Engagement and Health Policy) to serve as IUSD's liaison among faculty, students, the dental profession, policymakers and community agencies/institutions to promote and facilitate mutually beneficial community based and community engaged scholarship. <http://www.iusd.iupui.edu/departments/office-for-civic-engagement/>.
- The student chapter of the American Association of Public Health Dentistry launched a free dental clinic that provides services on two Saturdays each month in cooperation with People's Health and Dental Center. Recipients of the services are adults with low-income from the near Eastside, and people who are homeless. Dental students are supervised by volunteer IUSD faculty dentists. This program is a partnership with IU School of Medicine's Student Outreach Clinic at nearby Neighborhood Fellowship Church.
- Four dental students were chosen to be among the first cohort of 15 Indiana Schweitzer Fellows. Their project included developing a student operated free dental clinic and initiating a school-based oral health promotion program for children and parents from low-income families in the near Eastside of Indianapolis. <http://www.schweitzerfellowship.org/features/us/ind/>
- Thirty-two students and 7 IU School of Dentistry faculty members participated in international service-learning and intercultural dental educational programs in 6 countries. The programs were from one to three weeks in duration and occurred in Ecuador, Guatemala, Haiti, Kenya, Mexico, and Vietnam. http://www.iusd.iupui.edu/isl_site/
- Kids Club, IUSD's student chapter of the American Association of Pediatric Dentistry, took dental educational messages to children in 12 Indianapolis schools, PBS's Kids' Day in the Park, and the Indiana State Fair. They provided oral screening at five events including Black Expo, the Westside Health Af-fair and Santa Comes to Town health fair at the State Fairgrounds.

- IU School of Dentistry launched a new program to take restorative dental services to children in rural and underserved Indiana communities. Delta Dental Foundation and Head Start provided funding to enable the program to begin with rural Indiana Head Start programs. IUSD's 40' mobile dental clinic, with two fully equipped operatories, is being used to provide services at sites throughout Indiana staffed by pediatric dentistry residents and fourth year dental students with supervision provided by IUSD faculty dentists.

DIVERSITY

- Our summer programs include the Dental Summer Undergraduate Research Program and the Dental Summer Institute. Students in the Dental Summer Undergraduate Research Program work with Indiana University School of Dentistry faculty to complete research activities and learn more about dentistry. The Dental Summer Institute is a one-week residential program for high school students. It offers a variety of faculty presentations, workshops, and hands-on activities designed to motivate students to consider careers in dentistry.
- During this period, applications for program support and pipeline expansion were submitted to the National Science Foundation, the National Institutes of Health, and the American Dental Educational Association. One has been recommended for funding and 2 are still pending.
- Presentations were made to various groups throughout the year. Some groups include: Indiana Northwest Area Health Educational Center Dental Summer Institute, the Pro 100 student group, Jag Days, and several local high schools.
- Several activities in the Indianapolis area have become a routine part of our relationship building efforts with schools, churches, and community organizations. This includes: Indiana Black Expo, Indiana Latino Expo, Indiana Area Health Educational Center Boot Camp/Annual Meeting, and Jobs for American Graduates.
- The Doctor of Dental Surgery (DDS) Program has 11 underrepresented minority students in the first year class and 12 in the second year class. There are 104 total students in each class. The Dental Hygiene Program has accepted 5 students for the 2012 entering class.
- A senior Pike High School student participated in an internship program at Indiana University School of Dentistry. He spent at over 100 hours observing in our clinics, previewing classes, and completing a formal paper/presentation as a final project. He received academic credit from his school for the project. The student also attended community activities and a diversity outreach event sponsored by the Indiana Dental Association. He will attend Tuskegee University as a pre-dental student this fall. He plans to return to Indiana University School of Dentistry and become an Orthodontist.

BEST PRACTICES

- The School of Dentistry has continued to implement the IUPUI Service with Distinction Program. The School of Dentistry Clinical Staff was chosen to be the initial group involved with the program. The School identified several areas for improvement in effectiveness of process and best practices. Action plans were developed and implemented. The School is now reviewing the outcomes of the action plans. The Student Services staff has been selected as the next group to implement the IUPUI Service with Distinction Program.
- Digital radiography hardware and software have been installed in all clinical areas of the School of Dentistry which will result in greater efficiency and best practices in current dental radiography technique. Training for the faculty, staff and students is ongoing.
- The School of Dentistry has opened a dental clinic in the Simon Cancer Center. The clinic is equipped with a dental chair and digital panoramic radiographic system. This will allow for a complete dental screening procedure prior to cancer patients beginning their treatment. This dental presence in the Simon Cancer Center should encourage medical and dental collaboration as well as improved health care for patients.

- As a culmination of recommendations from the formal programmatic review of IUSD Technology Services completed in early 2011, Mr. Vince Sheehan has been appointed as Chief Information Officer and Associate Dean for Information Technology for the IU School of Dentistry. He has held a similar position for the School of Medicine the past nine years and will continue in that role. He will lead the effort to consolidate the IUSD Technology group with the Information Services and Technology Management (ISTM) unit within the medical school. The combined unit will leverage existing staff and resources to deliver shared services across both schools.

EXTERNAL AWARDS AND APPOINTMENTS

- The National Children’s Oral Health Foundation, one of America’s leading charitable organizations in children’s dentistry, named the IU dental school “Affiliate of the Year” in 2012 for its ongoing support of the foundation’s mission “to eliminate pediatric oral disease and promote overall health and well-being for children from vulnerable populations.” Dr. Judith Chin of Pediatric Dentistry worked to establish the affiliation in 2008 and has received more than \$368,000 in financial grants and dental supplies. *NCOHF news release:* http://www.ncohf.org/assets/2174/IUSD_Named_NCOHF_Affiliate_of_the_Year_04-12.pdf ; *IU release:* <http://newscenter.iupui.edu/5506/IU-Dental-School-Is-National-Childrens-Oral-Health-Foundations-Affiliate-of-the-Year>
- About 15% of the American Dental Education Association’s Sections and Special Interest Groups are currently either chaired by IU professors or poised to be. ADEA is the leading organization in dental education in the U.S. and Canada: www.adea.org. *Chairs:* Dr. Stuart Schrader, Behavioral Sciences; Dr. Laura Romito, Tobacco-Free Initiatives; Dr. L. Jack Windsor, Oral Biology; and Dr. LaQuia Walker, Pediatric Dentistry. *Chairs-Elect:* Dr. Joan Kowolik, Council of Sections administrative board; Dr. Cheryl Krushinski, Oral Diagnosis-Oral Medicine; and Dr. Nadim Islam, Oral and Maxillofacial Pathology. Additionally, Dr. Jeffrey Bennett is a 2013 fellow in ADEA’s Leadership Institute. In 2012 Dr. John Williams completed his three-year term as vice-president for Deans. Several other faculty serve in secondary officer positions.
- Dr. Jeffrey Dean, executive associate dean, has been appointed executive director of the American Board of Pediatric Dentistry. He will serve at least five years: <http://newscenter.iupui.edu/5263/IU-Dental-School-Professor-and-Administrator-Jeffrey-Dean-to-Head-the-American-Board-of-Pediatric-Dentistry>.
- Prof. Patricia Capps, director of the dental assisting distance-learning program, was elected to a three-year term on the board of directors of the Dental Assisting National Board, Inc.
- Professor Emeritus E. Brady Hancock, former chair of Periodontics and Allied Dental Programs, received the American Academy of Periodontology Outstanding Periodontal Educator award: http://www.perio.org/about/ma_winners11.htm.
- Ms. Judith Wilkinson, J.D., fiscal officer for research and industrial liaison, received a 2012 President’s Award from the Association of University Technology Managers: <http://newscenter.iupui.edu/5569/Judith-Wilkinson-Honored-by-National-Technology-Managers-Group>.
- The Indiana Dental Association bestowed outstanding teaching awards on Oral Biology’s Dr. Laura Romito (for her accomplishments in academic 2010-2011) and Dr. L. Jack Windsor (for his body of work since joining the IU faculty): <http://www.iusd.iupui.edu/about-us/news-and-information/dental-school-employees-recognized-at-conferences>.
- Dr. Jeffrey Bennett, chair of Oral Surgery and Hospital Dentistry, and Dr. Thomas Barrick, a part-time professor in Oral Pathology, Medicine, and Radiology, were inducted as fellows in the American College of Dentists.

- Periodontics professor Dr. Sivaraman Prakasam won the American Academy of Periodontology Balint Orban Memorial Competition for his study of salivary biomarkers in chronic periodontitis:
<http://www.iusd.iupui.edu/about-us/news-and-information/iu-periodontics-professor-wins-prize-in-his-specialty>.
- Ms. Melissa Mau of Preventive and Community Dentistry served as president of the Circle City Chapter of the Association of Clinical Research Professionals.
- One year after 10 American dental students, including IU's Ms. Ewelina Ciula, laid the groundwork for the establishment of the nation's Student Professionalism and Ethics Association, a group of IU dental students received honorable mention in a video contest sponsored by the American Dental Association (ADA) Council of Ethics, Bylaws, and Judicial Affairs. "Back to Ethics," which premiered at the 2011 ADA meeting in Las Vegas, was produced by Ms. Ciula and Ms. Katherine Hungate, Ms. Gabrielle Johnson, Mr. Tadziu Kula, and Mr. Ali Sajadi:
<http://www.ada.org/news/6229.aspx>.
- The School of Dentistry and its new Implant Center have entered into collaboration with the Japan Implant Practice Society, Tokyo, that involves IU professors serving as educators and associates for the society's implant research fellowship program. Holding special appointments as faculty in the society are Drs. Fidel Barbosa, David Brown, Vanchit John, Michael Kowolik, and John Levon, and emeritus professor Dr. Yoshiki Oshida (all of the School of Dentistry); and Drs. David Burr and Mark Seifert (School of Medicine). The first course was held in Tokyo in June 2012.
- A paper written by School of Dentistry faculty (Laura Romito, Lorinda Coan, and Arden Christen) and Kim Saxen of the Kelley School of Business published in the *Harm Reduction Journal* in 2011 (*Retail promotions and perceptions of R.J. Reynolds' novel dissolvable tobacco in a U.S. test market*) was one of 25 peer-reviewed papers used in part by the Food and Drug Administration's Tobacco Products Scientific Advisory Committee to inform policy on dissolvable tobacco. The advisory group submitted its final report and recommendations to the FDA on March 1, 2012. Summary report:
<http://www.fda.gov/downloads/AdvisoryCommittees/CommitteesMeetingMaterials/TobaccoProductsScientificAdvisoryCommittee/UCM295842.pdf>; list of peer-reviewed literature:
<http://www.fda.gov/downloads/AdvisoryCommittees/CommitteesMeetingMaterials/TobaccoProductsScientificAdvisoryCommittee/UCM288444.pdf>.
- Periodontics professor Dr. Steven Blanchard will receive the 2012 American Academy of Periodontology Humanitarian Award for a career that has been replete with wide-ranging contributions as a volunteer and charitable healthcare provider, including service as a first responder at the Pentagon on 9-11, a volunteer dentist at Hamilton County's Trinity Free Clinic, and the faculty leader for the dental school's International Service Learning Program in Honduras.