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Dear colleagues,

WOW! That’s the best word I can use to describe what’s happening at the University of Tennessee College of Dentistry. Let me take a moment to fill you in on the great things that are in process at the college and our goals for the near future.

First, our student body – the greatest asset of any dental school and our reason for existence. The current students’ stellar performance on both the National Board and Clinical Board examinations is a wonderful tribute to our hardworking faculty and the student selection process. We are in the process of admitting the class of 2014. Once again the applicants are a group of excellent students, most of which come with a four-year undergraduate GPA of 3.50 or better and impressive DAT scores.

Our faculty is ever growing and with the addition of these individuals, our programs will see significant growth in quality and outcomes. Several of these new faculty members are featured in this bulletin. The College of Dentistry is very fortunate to have the ability to hire new faculty and renovate the building during a period when the university is facing major budgetary issues. With the strong support of Interim Chancellor Steve Schwab and the Executive Vice Chancellor and Chief of Staff Kennard Brown, our faculty and facilities are moving forward to benefit the profession of dentistry! In addition, the college has received very strong financial support from our alumni both individually and collectively from the College of Dentistry Alumni Association, as well as major industry renovation grants from Delta Dental of Tennessee, Delta Dental of Arkansas and BlueCross BlueShield of Tennessee. Because of this support, my motto has become “GET IT DUNN” and the college has become a place where construction workers, jackhammers and noise are the rule, not the exception.

In addition to our new faculty and renovations, research has become a focus at the College of Dentistry. Although our primary mission is to train successful general dentists, dental research is an important part of the educational process. Dentistry as a whole lacks the number of dental researchers necessary to move our profession into the next century. One of my goals and commitments to the campus is to increase the college’s presence in this vital area. In the short time since my arrival and with the successful hiring of several research-oriented faculty, the UT College of Dentistry has appeared in publications from Dental Products Report to texts like “Cancer Metastasis – Biology and Treatment.” We are poised to become a leader in dental research with new industry support and a record seven RO1 federal grants submitted by July 2010, covering areas from sealants to stem cells!

The College of Dentistry is moving forward to enhance all of its programs, build a state-of-the-art facility and excel in providing a quality education. As valued alumni, each of you should be proud to say that the University of Tennessee College of Dentistry is where you were trained, where you can go for your cutting-edge continuing education, and where you will look to for progress in the field of dentistry.

Timothy L. Hottel, DDS, MS, MBA
Dean
UT College of Dentistry
The UT Health Science Center is approaching its 100th year of graduating health care professionals to serve the needs of Tennessee and our region. The Health Science Center’s six colleges remain the primary source for health care professionals in the state. Despite the economic downturn and substantial budget reductions, we remain true to our four-fold mission of education, research, clinical care and public service.

Over the past three years, the Health Science Center has emerged as a statewide institution. Our educational, clinical, research and service mission spans the state as our students and residents live, work and contribute in our three major campus locations – Memphis, Knoxville and Chattanooga – as well as in more than 100 clinical and educational sites across Tennessee.

Notable achievements include a continued expansion in the education of health care professionals. The College of Medicine has extended its entering class size to 165 students from 150, and the College of Pharmacy to 175 students from 150. Nursing is shifting its focus to an intensive entry-level master’s degree (MSN-Clinical Nurse Leader) for second-degree students, while Allied Health Sciences has extended its program offerings and absorbed a major Audiology and Speech Pathology unit into its portfolio. Dentistry is undergoing a facility and faculty facelift with major Development drives. Additionally, our College of Graduate Health Sciences continues to provide high-quality, practical preparation for advanced-degree students in close association with local partners like St. Jude.

Our advanced health care training is intact with greater than 1,100 residents and fellows in 84 accredited Medicine training programs, as well as Pharmacy and Dental resident programs. We serve as a key training center for advanced Nurse Specialist and Allied Health practitioners.

Research success has been achieved with greater than $25 million in new stimulus research grant awards to date. This performance reflects our new approach to thematic across-campus/across-college efforts in scientific discovery. We are building a new translational thematic research building on campus adjacent to and structurally similar to the current Cancer Research Building to house our expanding research initiatives. A new College of Pharmacy building housing research and educational programs is nearing completion. Our NIH co-funded Regional Biocontainment Laboratory is nearing certification and operation. Major research growth is under way on our campus.

Our faculty practice plans continue to grow on all campus locations as do our relations with our affiliated partner hospitals. Notably, our University of Tennessee-Methodist Transplant Institute has performed its thousandth transplant, sustaining its status among the top 10 in the nation based on volumes and outcomes. Our Hamilton Eye Institute and trauma surgery programs continue to be nationally ranked. Emerging national prominence is occurring in children’s services, especially children’s cardiovascular care.

The Health Science Center remains focused on its mission with an unwavering commitment to growth. Our goal and expectation is to enter top quartile status in all segments of our mission.

Sincerely,

Steve J. Schwab, MD
Interim Chancellor
The University of Tennessee Health Science Center
Hershel P. Wall, MD, stepped down from his position as chancellor on September 30, 2009. Dr. Wall has been a member of the Health Science Center team since he began medical school on the Memphis campus more than 52 years ago.

Steve J. Schwab, MD, was named UTHSC interim chancellor by UT Interim President Jan Simek. Dr. Schwab’s appointment became effective on October 1. The search for the permanent Health Science Center chancellor began immediately.

“Pat Wall is an incredibly dedicated member of the university family,” said President Simek. “We are grateful for the many contributions he has made to the Memphis community and to our UT family in his roles as physician, teacher and administrator.”

During his long and distinguished tenure, Dr. Wall held a series of positions with increasing levels of responsibility in the UT College of Medicine, including serving as interim dean for the Memphis campus. He accepted the appointment as interim chancellor in April 2007, with the interim designation being removed in January 2008. Dr. Wall will continue to teach in the College of Medicine and serve UTHSC as a Special Assistant to the President in support of Alumni Affairs and Development. His responsibilities will include fundraising, capital development and alumni relations.

Dr. Schwab joined UTHSC as the first-ever executive dean for the UT College of Medicine in July 2006 to lead the center’s largest college. In this role he has assumed all administrative responsibility for the College of Medicine campus locations in Memphis, Knoxville and Chattanooga. In 2007, he absorbed direct responsibility for the Memphis campus due to a vacancy in the Memphis dean’s office.

“I am honored to accept this appointment and I look forward to continued strong collaboration with the leadership, faculty and staff of this vital health care institution,” said Dr. Schwab.

“Dr. Schwab has exhibited a serious commitment to excellence, a sound ability to lead and an affinity for building symbiotic strategic partnerships. Those traits are pivotal to success in the chancellor’s office,” said President Simek. “His vision of moving the College of Medicine into the top quartile of academic medical institutions is being translated into reality by a team of excited and accomplished professionals.”

The search for a permanent UTHSC chancellor was suspended in January 2008 and the interim designation was removed from Chancellor Wall’s title. A new committee has undertaken the national search and will recommendations to President Simek on possible candidates. The search committee includes leaders from partner organizations in the Memphis health care community; UTHSC faculty and student representatives from among its six colleges; non-exempt staff, and team members who represent the other two major UTHSC campuses in Knoxville and Chattanooga.

“A long-term permanent chancellor is critical to the future of the UT Health Science Center and the pursuit of our goal to increase its research capacity, outreach in the community and commitment to providing the best possible education for the future health care workers in our state,” President Simek said.

In addition to serving as interim chancellor, Dr. Schwab will continue in his role as chair of the UT Medical Group Board of Directors, a position he has held for three years. UT Medical Group (UTMG) is the private group practice affiliated with the UT Health Science Center College of Medicine faculty. A not-for-profit, non-tax-supported group practice, UTMG is dedicated to quality patient care, medical education, and medical research. With more than 350 clinicians, UTMG is the largest physician group in the region.

Prior to joining UTHSC, Dr. Schwab served as interim dean and chief clinical officer of the Medical College of Georgia where he was also a Regents Professor and Chairman of the Department of Medicine. Before that, from 1985 to 2003, he was at Duke University where he rose to become professor and vice chairman of medicine. He has held board positions in both the private and public sectors. Dr. Schwab is internationally recognized in the field of renal disease with more than 150 refereed publications and five books to his credit.
A committee to direct the search for the next chancellor at the UT Health Science Center has been established and began work at its first meeting on December 18.

An external consultant was hired to work with the committee to recruit candidates, narrow the candidate field and vet candidates.

The new chancellor will serve as chief administrative officer of the Memphis campus and its satellite locations in Chattanooga, Knoxville, Jackson and elsewhere in the state. UTHSC enrolls more than 2,700 students and has more than 4,000 employees.

Partnerships UTHSC has across the state involve health care providers such as Methodist University Hospital, Le Bonheur Children’s Medical Center, The Regional Medical Center at Memphis, University Health System (Knoxville), Erlanger Health System (Chattanooga), Baptist Memorial Health System, West Tennessee Health Care (Jackson), St. Francis Hospital, St. Jude Children’s Research Hospital and the Department of Veterans Affairs Medical Center in Memphis. The Health Science Center also has affiliations with Memphis Bioworks Foundation and Oak Ridge National Laboratory.

“The university is eager to find a highly qualified and dynamic individual to lead the Health Science Center during this critical time and beyond,” Interim UT President Jan Simek said. “The chancellor will help the university pursue its goal of increasing UTHSC’s research efforts and continuing to improve upon providing the best training and education for the health care professionals in Tennessee.”

Dr. Simek has appointed William Evans, director and chief executive officer of St. Jude Children’s Research Hospital, and Linda Hendricks, chief human resources officer for the UT System, as co-chairs of the committee.

**UTHSC Chancellor Search Committee**

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<th>Name</th>
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<tr>
<td>Kennard D. Brown</td>
<td>Executive Vice Chancellor and Chief of Staff, UTHSC</td>
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<td>Phillip Burns</td>
<td>Chair, UT College of Medicine, Chattanooga</td>
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<td>George Cates</td>
<td>UT Trustee</td>
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<td>Barbara Connolly</td>
<td>Interim Dean, College of Allied Health Sciences</td>
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<td>James Eason</td>
<td>Professor of Surgery and Program Director of the Methodist University Hospital Transplant Institute</td>
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<td>Dick R. Gourley</td>
<td>Dean, UT College of Pharmacy</td>
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<td>Monice Hagler</td>
<td>UT Trustee</td>
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<td>Margaret “Peg” Hartig</td>
<td>Department Chair, UT College of Nursing</td>
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<td>Timothy Hottel</td>
<td>Dean, UT College of Dentistry</td>
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<td>J.R. “Pitt” Hyde</td>
<td>CEO, J.R. Hyde III Family Foundations</td>
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<td>Robert Kaplan</td>
<td>Dermatologist, Assistant Professor, UTHSC alumnus</td>
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<td>Joseph R. Landsman Jr.,</td>
<td>President and CEO, UT Medical Center, Knoxville</td>
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<td>Melaina Perry</td>
<td>President, UTHSC Student Government Association</td>
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<td>Karl Schledwitz</td>
<td>UT Trustee</td>
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<td>Gary Shorb</td>
<td>President and CEO, Methodist Healthcare Foundation</td>
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<td>Lacey Smith</td>
<td>Interim Dean, UT College of Medicine</td>
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<td>Cheryl C. Stegbauer</td>
<td>Associate Dean, UT College of Nursing</td>
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<td>Parker D. Suttle</td>
<td>President, UTHSC Faculty Senate</td>
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**UTHSC Raises $17,000 for Haiti Relief Efforts**

The UT Health Science Center has raised nearly $17,000 for relief efforts in Haiti. More than $10,100 was raised during a one-day fundraising drive on the main campus. Faculty, staff and students brought cash and checks to three different campus locations between 8 a.m. and 4 p.m. UT Cancer Institute (UTCI) raised nearly $6,900 for Haiti relief efforts over the course of a week, most through payroll deductions.

“The faculty, students and staff of the Health Science Center have truly shown, once again, the difference that each of us can make when we work together,” said UTHSC Interim Chancellor Steve J. Schwab.

Third-year dental student Valentine Emechete is interviewed by Earle Farrell of FOX13’s “Good Morning Memphis” during the campus fundraising drive for Haiti relief.
News & Events

UTHSC Changes Web and E-Mail Addresses to UTHSC.EDU

The UT Health Science Center has begun the transition to its new domain name – uthsc.edu. A domain name is essentially the electronic address that identifies an organization throughout the Internet. The most commonly known uses for a domain name are for Web page and e-mail addresses.

“The change to uthsc.edu synchronizes our electronic identity with the official name of our institution,” said Ken Brown, JD, MPA, PhD, executive vice chancellor and chief of staff at UTHSC.

Effective March 1, utmem.edu will no longer be operational and none of the e-mail or Web addresses that use utmem.edu will connect. All addresses including utmem.edu must be changed to uthsc.edu before March 1. For additional information about the domain name change, visit www.uthsc.edu/domainchange.

College of Dentistry Featured in UTHSC Commercials

In October 2009, UTHSC students participated in video production for the first UTHSC television commercials – an extension of the “Right Here in Memphis” marketing campaign, which was launched in February 2009. The campaign began with online, trolley, billboard, airport and select print ads and has expanded to include radio and TV commercials. The first three TV commercials focus on the UT College of Dentistry, UTHSC’s peanut allergy research, and the transplant unit that UTHSC physicians staff, in partnership with Methodist University Hospital. The TV commercials began airing in mid-November and will be broadcast in the Memphis market through the spring. To view the commercials visit www.uthsc.edu/tvcommercials.

To date the “Right Here in Memphis” campaign has generated:

- more than 3.7 million impressions with online ads (Google Network, wreg.com and commercialappeal.com)
- more than 85,000 impressions with trolley ads
- more than 300,000 impressions with print ads
- more than 1.6 million impressions with airport ads (Memphis International Airport averages about 27,298 travelers per day and 820,000 per month.)

In addition, we have increased traffic to the UTHSC Web site by routing more than 126,000 additional visitors to the site through clicking on online ads. Overall traffic to the main page was 5.5 percent higher from April to November 2009, compared to the same time frame in 2008.

In the first full month of the campaign the news pages, where the campaign pages live, received 55 percent more hits than in January 2009. In the second full month, the news pages received 95 percent more hits than in January. Traffic has consistently been higher than before the campaign launch.

Dentistry Magazine Wins Award

The Summer 2009 issue of Dentistry magazine won a Gold award for print publications at the Public Relations Society of America Memphis Chapter’s annual VOX Awards. The UTHSC Department of Communications and Marketing accepted the award at a ceremony held at an east Memphis hotel. A list of additional award recipients can be found online at www.prsamemphis.org/en/cms/?20.
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Enter the New World of M-Wire NiTi

Kathleen Roman
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Harold Crossley, DDS
Street Drugs Exposed - What Your Patients & Your Kids Are Not Telling You

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UNIVERSITY OF TENNESSEE MEDICAL DEPARTMENTS IN NASHVILLE, 1897.
New Faces

Swati Ahuja, BDS, MS

Swati Ahuja, BDS, MS, is currently an assistant professor in the Department of Restorative Dentistry and is a faculty member in the college’s clinical practice. She is particularly interested in technological advances in the dental profession and often applies them to her practice. Dr. Ahuja is also actively involved in clinical research, specifically in the temporomandibular disorders (TMD) clinic at the college. Her research interests also include occlusion, EMG and T-scan.

Dr. Ahuja received her bachelor’s degree in dental surgery from the Nair Hospital Dental College, India in 2002. In 2003, she completed a one-year internship program from the aforementioned college. After practicing as a general dentist for approximately two years, Dr. Ahuja joined the advanced prosthodontic program at the UT College of Dentistry in 2006. She recently graduated with a certificate in prosthodontics and a master’s in dental science.

In her professional capacity, Dr Ahuja is a member of the American Dental Association, American College of Prosthodontics and American Dental Education Association.

Dr Ahuja is married to Amit Ahuja, a nuclear pharmacist at St. Jude Children’s Research Hospital.

Lina M. Cardenas, DDS, MS, PhD

Lina Cardenas, DDS, MS, PhD, is originally from Medellin, Colombia, where she received her first dental degree from the Center for European Studies (CES) University. To improve educationally, clinically and academically, she decided to continue her post-graduate studies abroad. Dr. Cardenas obtained her PhD in Dental Science (combined with Pediatric Dentistry) from Nagasaki University, Japan, where she was a recipient of a scholarship from the Japanese Ministry of Education. From Japan she moved to North Carolina where she earned a Master of Science from the University of North Carolina at Chapel Hill, again in a combined program with Pediatric Dentistry. While in North Carolina, Dr. Cardenas participated in the core course of the prestigious Robert Wood Johnson Clinical Scholar Program in Clinical Research and Epidemiology at the University of North Carolina. She earned a second dental degree from the University of Texas Health Science Center at San Antonio, graduating magna cum laude.

Dr. Cardenas is a diplomat of the American Board of Pediatric Dentistry. She also serves on the Council of Scientific Affairs and the In-service Exam Committee of the American Academy of Pediatric Dentistry. She is a reviewer for several dental peer-reviewed journals. Dr. Cardenas is a past president of the San Antonio Academy of Pediatric Dentistry and a founding member of the Greater San Antonio Hispanic Dental Association. She has actively been involved in the American Dental Education Association (ADEA) and has served as member of the ADEA Commission on Change and Innovation in Dental Education. Currently, she is the chair of the ADEA Pediatric Dentistry Session.

Dr. Cardenas has a wide range of research experience including clinical and laboratory. She has a strong interest in translating this experience into the clinical research arena. She has also conducted research on the histological effects of pulp tissue and dentin formation to different operative techniques. During the last eight years, she has been a co-principal investigator in a multidisciplinary NIH-R01 grant evaluating the dental phenotype of animal models for dental disease. She has also conducted multidisciplinary caries research investigating the mother-to-child transmissibility of bacteria involved with dental caries and intervention, and reduction strategies. Dr. Cardenas was the course director of the Pulp Therapy and Oral Trauma course for Pediatric Dentistry at University of Texas Health Science Center at San Antonio. She lectures both nationally and internationally on dental traumatology and other pediatric dentistry topics.

Dr. Cardenas comes to the UT College of Dentistry to serve as the chair of the Department of Pediatric Dentistry and Community Oral Health. She plans to continue strengthening the national reputation that UT pediatric dentistry has enjoyed over the years. Dr. Cardenas will also coordinate and contribute to strengthen research and community outreach programs through both divisions of pediatric dentistry and community oral health.
Laura Ann Darnell, DMD

Originally from Birmingham, Ala., Laura Darnell, DMD, obtained a BSE in Biomedical Engineering at Tulane University in New Orleans, La., in 1995. After beginning dental school at the University of Pennsylvania School of Dental Medicine, she was invited to become the first student in the joint DMD/PhD program between the University of Pennsylvania and Johns Hopkins University School of Engineering. As a combined degree candidate, Dr. Darnell received the Ruth L. Kirschstein National Research Service Award, an Individual Predoctoral Dental Scientist Fellowship from the National Institutes of Health.

After graduating with a DMD from UPenn in 2009, Dr. Darnell is set to defend her PhD in materials science engineering from Johns Hopkins University. As a dental student, she presented at the Institute for NanoBioTechnology in Baltimore, Md., the Materials Research Society in San Francisco, Calif., and the International Association of Dental Research in Miami, Fla.

Dr. Darnell’s principal area of research is the mechanical properties of teeth. She has previously mapped the variations in mechanical properties (hardness and Young’s modulus) in human and primate enamel and dentin using nanoindentation techniques and correlated these mechanical property variations to microstructural and chemical properties. Dr. Darnell’s focus was on maxillary incisors and molars in humans and other mammals, including the comparison of museum-obtained samples with recently extracted human molar enamel samples and the comparison of old and young primate enamel. This research was funded with a grant from the National Science Foundation.

One of Dr. Darnell’s proudest achievements is having her initial, first-author research paper selected as the cover paper for the American Journal of Physical Anthropology.

Adam Lloyd, BDS, MS

Adam Lloyd, BDS, MS, is a native of South Wales. He received his dental degree from the University of Wales College of Medicine in 1994. A defining moment in Dr. Lloyd’s early career was presenting at the Royal College of Medicine to the British Endodontic Society. His presentation focused on his national award-winning research performed while at Baylor College of Dentistry. Due to his strong desire to become an educator, he left his father’s general practice and returned to Baylor where he obtained both his certificate in endodontics and MS in oral biology.

A career educator, Dr. Lloyd has taught at the University of California, San Francisco, and the NSU College of Dental Medicine. He is currently associate professor in the Department of Endodontics and Operative Dentistry at the UT College of Dentistry.

Dr. Lloyd’s research focuses on instrument design and visualization of endodontic techniques using X-ray microfocus computerized tomography providing clinically applicable data. He applies this research to teaching methods through use of advanced multimedia and training manuals.

Dr. Lloyd has lectured both nationally and internationally. Most recently he was a contributing author for the textbook “Ingle’s Endodontics.” He has been recognized by the British Endodontic Society having won the Fred Harty prize in endodontics in 1995. Dr. Lloyd has plans to build on the solid foundation of endodontic teaching offered at UT by forming an advanced specialty education program. He has two young sons, William and Christian.

Cesar A. Migliorati, DDS, MS, PhD

Cesar Augusto Migliorati, DDS, MS, PhD, is director and professor of oral medicine in the Department of Biologic and Diagnostic Sciences. He is certified by the American Board of Oral Medicine.

Dr. Migliorati’s areas of interest include oral mucosal diseases, oral infections, precancer and cancer. For several years, he has cared for patients with HIV/AIDS and is currently treating cancer patients with oral complications from cancer therapy.

Dr. Migliorati is world renowned for his expertise in bisphosphonate osteonecrosis.
Dean Timothy Hottel has named Franklin Garcia-Godoy, DDS, MS, professor and senior executive associate dean of research. Dr. Garcia-Godoy has made contributions to oral health sciences that have captured worldwide attention, including his studies on extracting stem cells from adult teeth. His duties include serving as director of the college’s Bioscience Research Center and he currently holds federal, industrial and professional research grants to improve and test dental products. The appointment of Dr. Garcia-Godoy gives UT College of Dentistry students an opportunity to engage in advanced dental science, positioning the college to gain international recognition and success in oral health research.

Dr. Garcia-Godoy, author of “Primary Preventive Dentistry” (the leading textbook used by dentists, dental assistants and hygienists), will set the tone for changing traditional views of dentistry both locally and beyond. He enthusiastically stated, “Not only will we extract and fill cavities, we will integrate the dental school’s research capabilities with the work of our institutional partners inside and outside the campus, and contribute to the body of science and knowledge at UT Health Science Center.”

Dr. Garcia-Godoy is working with Cesar Migliorati, DDS, MS, PhD, professor of oral medicine in the UT College of Dentistry Department of Biologic and Diagnostic Sciences, on ways to treat patients at St. Jude Children’s Research Hospital when cancer treatments produce side effects in the mouth such as lesions and jaw bone pain. His plan is to produce a dental material to cover the bone, ridding it of discomfort. He is also working with Dr. Migliorati to build a consortium with Vanderbilt University in Nashville, Tenn., that will develop treatments for the oral factor of head and neck cancer. Dr. Garcia-Godoy has initiated collaboration with faculty in the colleges of Medicine and Nursing at UTHSC to develop dental research projects, starting with studies related to physiology, and obstetrics and gynecology.

From teeth whitening to cavities simulation, and from dental adhesive development to dental stem cell removal, UT dentistry students will be able to pursue exciting research projects through Dr. Garcia-Godoy. “I am certain Dr. Garcia-Godoy will be popular with our students as he mentors them in a way that will shape the future of dental practice,” said Dean Hottel. He added, “Our patients and the community will benefit from his work at UT.”

Dr. Garcia-Godoy’s research has focused on several aspects of oral science such as dental sealants to protect teeth, materials used for fillings, teeth hardeners, toothpaste advances, and the study of stem cells from teeth. In his stem cell work, Dr. Garcia-Godoy hopes that discoveries will someday allow individuals to use stem cells from their own teeth to reproduce bone cartilage, heart cells and the cells that produce insulin. Thus, these potential breakthroughs would have the power to reduce problems associated with arthritis, cardiovascular disease and diabetes.

Dr. Garcia-Godoy has received approval to construct a new dental research lab in the Dunn building and is working to obtain permits from the state. The professor is committed to gaining more knowledge on the ways oral health is linked to chronic medical conditions. He also aims to inform
the community that today’s dentists do far more than provide oral health services. They are involved in dental research that can have positive effects on overall health.

Before joining the UT College of Dentistry, Dr. Garcia-Godoy was the associate dean for research for the College of Dentistry at Nova Southeastern University in Fort Lauderdale, Fla. He was attracted to UT and Memphis due to Dean Hottel’s vision for the college and because of the city’s amenities. “Dean Hottel and the Health Science Center administrators have expressed such enthusiasm about advancing the dental college into the next phase of its rich tradition; I am challenged to be a part of its success,” said Dr. Garcia-Godoy. “I also like being near the Mississippi River. It is beautiful and always flowing, which is an inspiration for me and my work.”

Currently, Dr. Garcia-Godoy is president of the International Association for Dental Research and president of the Society for Physical Regulation in Biology and Medicine. In 2007, he organized the world’s first Regenerative Endodontics Conference in Fort Lauderdale to address extracting stem cells from teeth, tissue engineering, gene therapy and bioactive treatments in oral health care. Throughout his career, Dr. Garcia-Godoy has been affiliated with more than 35 professional dental associations and was the founding president of the Hispanic Dental Association. He is editor of the American Journal of Dentistry and has published more than 500 abstracts, book chapters and peer reviewed research publications related to dental care.

Dr. Garcia-Godoy moved to Memphis in 2009 with his wife, Katherine and son, Alexander, who is a first-year dental student at the UT College of Dentistry. A native of the Dominican Republic, Dr. Garcia-Godoy received his doctoral degree in dentistry at the University of Santo Domingo. His post-doctoral work was completed at the University of Illinois in Chicago.

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Oral and Maxillofacial Diagnostic Services offers histopathologic reporting of biopsy specimens, thin preps and cytosmears; special stains and immunohistochemistry applied for diagnosis of infections, tumors and other lesions; direct immunofluorescence for immune-mediated mucocutaneous disorders; radiographic interpretation of conventional X-rays and images using advanced techniques like CT, MRI, and cone-beam CT of head, jaws and neck; sterilization monitoring services; culture and sensitivity detection of potentially infectious tissue material; clinical consultation; and 24-hour turnaround on routine biopsy specimen. Please call for free biopsy kits and mention Michel’s solution for direct immunofluorescence. Shipping of biopsy specimen via FedEx provided free of charge. Faculty includes four board certified oral and maxillofacial pathologists and one board certified oral and maxillofacial radiologist.

875 Union Ave.
Room C-309 Dunn Bldg.
Memphis, TN 38163

Phone: Biopsy Information (901) 448-2569
Fax: (901) 448-6835
Billing/Insurance: (901) 448-5876
Patient referrals: (901) 448-6476

E-mail: utomds@uthsc.edu
Web address:
www.uthsc.edu/dentistry/omds/omds.html
Renovations

A view of the UT College of Dentistry clinic before the renovation.

The fourth floor clinical area pictured during the “tear-out” phase of renovation.

The dental chairs and units have not been updated since the college moved into the Dunn building in 1977. Many of the replacement parts are no longer available.

The new state-of-the-art dental chair units will provide a much-improved experience for the students and the approximate 40,800 patient visits per year.
The University of Tennessee College of Dentistry moved into the Winfield C. Dunn Building in 1977. At that time the college was fortunate to have state-of-the-art facilities and equipment. Unfortunately, most of that equipment was still being used more than 30 years later. But that is about to change. April 2010 will mark the completion of the first phase of renovations currently under construction within the Dunn building.

During the first phase, the Department of Pediatrics is receiving a new child-friendly waiting room to help ease the anxiety often associated with pediatric dentistry. The graduate pediatric program, which previously shared floor space with the undergraduate program, will receive its own dedicated space equipped with new chairs, units, cabinetry and flooring. Each chair will be equipped with ceiling mounted televisions and head-phones, which will be sure to bring a smile to young patients.

The fourth floor, which is the main clinical floor for predoctoral training, is undergoing a complete renovation. It is being reconstructed from floor to ceiling with new flooring, cabinetry, chairs, units and ceiling tiles. Faculty offices will also be updated with fresh paint and new office furniture.

Phase two, which was presented before the State Building Commission in January, will include completion of a cutting-edge research lab on the ground floor and renovations to the third and fifth floors. The third floor will house the University Dental Practice and new clinical research area while the fifth floor is home to the Department of Graduate Periodontics.

As many who have previously remodeled or built their own home can attest, with construction comes some chaos. Fortunately, in this case it’s organized chaos. “Alumni can take pride in the fact that all those involved in the Dunn Building Modernization Campaign are committed to the goal of making the UT College of Dentistry one of the top educational institutions in the country,” notes Dean Timothy Hottel.

The long-term benefits of this renovation are numerous. The faculty, staff, students and patients of the College of Dentistry will all benefit from the new facilities and equipment. Winston Churchill once said, “We shape our buildings, therefore they shape us.” Thanks to the generosity of many contributors, the Winfield C. Dunn Building will continue to positively shape the lives of dental students for years to come.
The fifteenth annual Hinman Student Research Symposium was held from October 30 to November 1, at the historic Peabody Hotel in Memphis, Tenn. The symposium featured oral and poster presentations of research projects by dental and graduate students from across the nation. At this year’s symposium, 83 students represented 49 dental schools in 29 states, the District of Columbia, and four Canadian provinces. Thirteen UT dental students presented their projects and served as hosts for the event.

The symposium was sponsored by the UT College of Dentistry and co-sponsored by the Hinman Dental Society, which holds one of the nation’s largest continuing dental education meetings each March in Atlanta. The event was also supported in part by grants from the National Institute for Dental and Craniofacial Research (NIDCR), the ADEA-Gies Foundation, and the Procter & Gamble Company.

The keynote speaker at the welcoming banquet was J. Leslie Winston, DDS, PhD, director of North American Professional and Scientific Relations for Procter & Gamble Oral Health. Dr. Winston encouraged the students to keep up their interest and involvement in research and to consider the wide variety of career options available in clinical and basic science research.

Bradley K. Greenway, DDS, PhD, president of the Hinman Dental Society, Atlanta, and Mrs. JoEllen Greenway were special guests in attendance. Dr. Greenway welcomed the participants, praised symposium organizers, and presented an overview of the upcoming Hinman Meeting to be held in Atlanta from March 25 to 27, 2010. Also speaking at the symposium was Kevin Hardwick, DDS, MPH, extramural training and career development officer of the NIDCR. Dr. Hardwick emphasized the role of NIDCR in supporting research training for dental students and discussed the career options available to future leaders in clinical and translational research.

Six awards were given to the most outstanding presentations – three in clinical research and three in basic science research – in addition to an award from the National Students Research Group (NSRG) of the American Association for Dental Research. Awards were presented by Timothy L. Hottel, DDS, MS, MBA, UT College of Dentistry dean; Franklin Garcia-Godoy, DDS, MS, UT College of Dentistry senior executive associate dean of research; Dr. Bradley Greenway; and Robert Spears, PhD, Baylor College of Dentistry and national faculty advisor to the NSRG.
July 10 marked the tenth anniversary of the UT College of Dentistry’s Commencement to Clinical Practice Ceremony. The event was held on the campus of Briarcrest Christian School in Memphis.

For the second year in a row, former Tennessee Gov. and UT College of Dentistry alumnus Winfield Dunn, DDS, served as the guest speaker. Gov. Dunn and the college provided each of the students with an autographed copy of his book “From A Standing Start – My Tennessee Political Odyssey.”

The Commencement to Clinical Practice Ceremony, also known as the “white coat ceremony,” is an important milestone for these third-year dental students. It celebrates the completion of their first two years of dental school. But more importantly, it marks the beginning of their clinical rotations. As the students are presented with their white coats, they are encouraged to always remember the humanistic values of compassion and caring while practicing dentistry.

“We are honored to participate in and support such an important event for our future colleagues,” states Alumni Association President Becky Barton, DDS. “We hope these students will embrace the commitments the white coat symbolizes – caring for patients, not just by curing disease, and enhancing health, but by respecting patients and providing quality patient care.” The UT College of Dentistry Alumni Association provides the funds to purchase the white coats.
The American College of Dentists held their Annual Fellowship Convocation in October as a part of the American Dental Association Annual Session.

The class of 1981 was represented with three inductions. Rick Bateman, DDS, Kingsport, Tenn., Robert Smith, DDS, Hernando, Miss., and Stansill Covington, DDS, Memphis, Tenn., were welcomed as fellows at the event.

Dr. Covington was also inducted as a fellow of the International College of Dentists the following day.

In addition, Dr. Bateman’s son will be entering the UT College of Dentistry class of 2014 in the fall.

Outstanding Alumnus Award Call for Nominations

Each year an Outstanding Alumnus Award is presented based upon recommendations from the UT College of Dentistry alumni, faculty or other college constituents. The annual selection is made by the Awards Committee of the UT Dental Alumni Board of Trustees on behalf of the UT College of Dentistry Alumni Association.

The Outstanding Alumnus Award will not be limited to those in active dental practice and will recognize a member of the dental profession who has distinguished himself or herself in the areas of:

• Community service
• Leadership in local, state or national health professional organizations
• Teaching, research activities or any other area of performance or accomplishments for which the UT Dental Alumni Board of Trustees determines a candidate to be worthy.

A letter of nomination and curriculum vitae should be mailed to -

UT Dental Alumni Board of Trustees
c/o UT Office of Alumni Affairs
62 S. Dunlap, Ste. 520
Memphis, TN 38163
Chitwood Receives Humanitarian Award

Walter C. Chitwood, Jr., DDS, (1982) was the recipient of the Sig Gruenwald Humanitarian Service Award at the annual meeting of the Tennessee Academy of General Dentistry. The Sig Gruenwald Award is presented to the Tennessee dentist who has distinguished himself or herself through the performance of extraordinary and exemplary humanitarian service to his or her community and the dental profession.

The award honors the memory of Dr. Sig Gruenwald, a Tennessee dentist who emigrated from Germany in 1937 and moved to Memphis. Beyond his contributions and landmark achievements in the Tennessee Academy of General Dentistry, Dr. Gruenwald was a diagnostician, caregiver, artist and philanthropist.

Dr. Chitwood has made 19 medical missionary trips to Mexico and three trips to Nicaragua. During these missions he has relieved pain in thousands of children and adults who would have otherwise suffered. In very basic facilities, sometimes even in a lawn chair, he removed abscessed and broken teeth. Beyond the actual relief of pain that he provided, these patients experienced the feeling of knowing that someone cares.

We’re Turning 100!

As UTHSC approaches its centennial year in 2011, the university is in the early stages of planning for this momentous occasion. Special events, a commemorative Web site, and coffee table book are just a few of the items slated for this year-long celebration.

Be a part of this celebration by contributing any historical photos, personal reflections, or artifacts that you may have from your time at UTHSC. Alumni are also needed as volunteers to search local library files for data pertinent to UTHSC history.

Please contact Richard Nollan in the Health Sciences Historical Collections at (901) 448-6053, rnollan@uthsc.edu.
UT College of Dentistry
Alumni Board of Trustees
2010-2012

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Vice President - J. Kendall Dillehay, DDS
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Yvette Burns, DDS
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(Middle)
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Region II At-Large
J. Kendall Dillehay, DDS

Region III At-Large
Joseph Safirstein, DDS

Region IV At-Large
(Public Health/Armed Forces)
James C. Ragain, Jr., DDS

President of the Faculty
Cheryl DeWood, DDS

Emeritus Dean, UT College of Dentistry
William F. Slagle, DDS

Honorary Members
Stacey A. Garner, DDS
Charles L. Rogers, DDS
H. Vernon Reed, DDS

In Memoriam

1930s
Wilbur H. Rouse

1940s
Felix Horton Griffin
Thomas Jackson “T.J.” Leonard, Jr.
Travis Earl Mayhall
William “Bill” Younger

1950s
Robert S. Beam
Joe Asa Griffin, II
David Anderson Grove, Sr.
Billy S. Howard
William Frank Johnston
Mildred T. Keene
Edd Lewis Simmons
Tilman Vancel

1960s
Brandt LaRue Baker, Sr.
Thomas J. Bradley, Jr.
Kenneth Ray Carruth
William F. Hand
Robert R. Rone


**Erin Go CE**

**10 Day Dental CE Tour of Ireland**

**June 17 - 27, 2010**

**ITINERARY**

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<th>Day</th>
<th>Locations</th>
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<td>Thu, Jun 17</td>
<td>UNITED STATES TO DUBLIN</td>
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<tr>
<td>Fri, Jun 18</td>
<td>DUBLIN ARRIVAL &amp; BRAZEN HEAD TAVERN DINNER &amp; OVERNIGHT: Davenport Hotel, Dublin</td>
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<tr>
<td>Sat, Jun 19</td>
<td>CE MEETING and DUBLIN HIGHLIGHTS OVERNIGHT: Davenport Hotel, Dublin</td>
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<tr>
<td>Sun, Jun 20</td>
<td>TEA AND SCONES &amp; KINSALE DINNER &amp; OVERNIGHT: TRIDENT HOTEL, KINSALE</td>
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<td>Mon, Jun 21</td>
<td>KINSALE &amp; BLARNEY OVERNIGHT: KILLARNEY PLAZA HOTEL, KILLARNEY</td>
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<tr>
<td>Tue, Jun 22</td>
<td>DINGLE PENINSULA TOUR OVERNIGHT: KILLARNEY PLAZA HOTEL, KILLARNEY</td>
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<tr>
<td>Wed, Jun 23</td>
<td>CE MEETING and RING OF KERRY (for those not participating in CE) DINNER &amp; OVERNIGHT: KILLARNEY PLAZA HOTEL, KILLARNEY</td>
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<tr>
<td>Thu, Jun 24</td>
<td>CLIFFS OF MOHER &amp; ASH福德 CASTLE DINNER &amp; OVERNIGHT: ASH福德 CASTLE HOTEL, CONG</td>
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<tr>
<td>Fri, Jun 25</td>
<td>KYLEMORE ABBEY AND FREE TIME OVERNIGHT: ASH福德 CASTLE HOTEL, CONG</td>
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<tr>
<td>Sat, Jun 26</td>
<td>LEISURELY MORNING &amp; RETURN TO DUBLIN DINNER &amp; OVERNIGHT: CASTLELENOCK HOTEL, DUBLIN</td>
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<tr>
<td>Sun, Jun 27</td>
<td>RETURN TO THE UNITED STATES</td>
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*There will be two itineraries - one as above and the other will reverse after Dublin*

**LAND FARE $2,399pp and INCLUDES**

- Transport by luxury motorcoach with a driver/guide for 10 days.
- Hotel accommodation based on twin bedded rooms with private bath for 9 nights.
- Full breakfasts (9).
- Table d'hôte dinners (5) (including Brazen Head Pub).
- Welcome drink in your Dublin Hotel
- Dinner and evening entertainment at The Brazen Head Pub.
- Tickets to the Dublin Open Bus Tour.
- Tea and scones at an Irish Farmhouse
- Visits and Admissions to:
  - Guinness Storehouse Tour
  - Rock of Cashel
  - Blarney Castle and Woollen Mills
  - Cliffs of Moher
  - Kylemore Abbey
  - Sheepdog Demonstration
  - Guided walking tour of Kinsale
  - Passage on the Tarbert Ferry
  - Optional Golf Outings at Ashford Castle and in Killarney (additional charge)

**Earn 12 CE Credits**

**Book Early - Space is Limited!**

Experience the allure of Ireland first-hand and come to understand its epic history, legendary legends and lively culture. The beauty and mystery of the Emerald Isle are yours to discover. This 10 day luxury motor coach tour will take you through country sides of lush green rolling hills, unspoiled vistas unfolding along the rocky cliffs and rugged Atlantic coastline and through charming medieval towns with meandering lanes and bustling markets. Enjoy the marvels of Ireland and an outstanding CE Program with our distinguished speaker.

**The Course and Learning Objectives**

The course covers “nuts and bolts” Clinical Oral Pathology in a way you’ve probably never experienced before! It focuses on oral cancer and other mucosal disorders commonly seen in the practice of dentistry and its presented by a highly experienced clinician and educator in a casual, relaxed and enjoyable atmosphere with ample opportunity for audience participation. The course is appropriate for general dentists, specialists, hygienists and physicians.

Upon completing this course participants should feel comfortable in addressing their patients’ concerns about oral cancer. Also, they will know how to recognize specific oral lesions, formulate a definitive diagnosis and know how to treat and manage these lesions.

**The Presenter**

James I. Drummond, DDS, MS, PhD: Professor Emeritus of Oral Pathology at the University of Kentucky College of Dentistry. Dr. Drummond has extensive clinical and teaching experience and has authored numerous publications in Oral Pathology. He has lectured both nationally and internationally. For seventeen years, he has been Course Director of the highly popular CE Course “Practical Oral Pathology for the Oral Health Practitioner” offered annually in Branson, MO.

**Program Information:**

- **Course Tuition:**
  - $375.00 per Dentist
  - $275.00 per Auxiliary
- **CDE and AGD Credit:** 12 Hours
  - 9 Hours on the Tour
  - 3 Hours Self Study
- **OPCE Seminar sponsor** all CE in the spirit of academic freedom but we do not endorse any particular product, technique or philosophy.
- **Course Cancellation Policy:** Tuition will be refunded in full if the course is cancelled or if the registrant cancels more than 21 days prior to the course. No refunds will be given after that date. OPCE Seminars cannot be held responsible for a non-refundable airline ticket in the event of course cancellation.

For additional information or to book your trip call Jodi at Cruise and Travel Partners ✆ 800/856-8826 or visit www.cruiseandtravelpartners.com
The BlueCross BlueShield of Tennessee Health Foundation has committed $500,000 to the UT College of Dentistry. The gift is directed to the Dunn Building Modernization Campaign to help the college replace clinic chairs that are more than 30 years old and to purchase technologically advanced equipment. The donation was announced at a presentation on campus in the Dunn building.

“We are grateful for this generous gift and will immediately put these funds to good use,” said Dean Timothy Hottel. “Improving the physical condition of the dental clinic and outfitting it with state-of-the-art equipment are our top priorities. These funds will play a significant part in helping to sustain our college’s tradition of grooming well-trained dental professionals.”

BlueCross BlueShield understands the importance of the UT College of Dentistry to dental education and, as a result, to the community. This wonderful gift will help provide UT dental students with the best possible clinical learning environment, which will better prepare them for patient care upon graduation.

“We welcome the opportunity to support the UT College of Dentistry,” said Vicky Gregg, president and CEO for BlueCross BlueShield of Tennessee. “Our research indicates that proper dental care is vital to overall good health. Through this grant, we are helping to enhance the supply of dental services to the citizens of Tennessee, and to ensure that they continue to receive high quality oral care.”

Vicky Gregg, president and CEO of BlueCross BlueShield of Tennessee, presents a check for $500,000 to Winfield Dunn, former Tennessee governor (far left), Timothy Hottel, dean of the UT College of Dentistry (third left) and Dr. Pat Wall, UTHSC Alumni Affairs and Development (far right), to support the UT College of Dentistry’s Dunn Building Modernization Campaign.

College of Dentistry Capital Campaign Update

As you know, the College of Dentistry is moving ahead on a $15 million capital campaign to address pressing needs including new clinical equipment, digital radiology, faculty enrichment, research and student support. The campaign is gaining momentum under the guidance of Philip A. Wenk, DDS, chairman, and former Tennessee Gov. and UT College of Dentistry alumnus Winfield Dunn, honorary chairman, aided by key alumni volunteers across Tennessee, Arkansas and beyond. To date, the college has received more than $13 million in gifts and pledges toward the $15 million goal.

The top priority of the campaign is to modernize and re-equip the Dunn Dental Building at a cost of $7 million. The modernization effort will include all new chairs and units in the undergraduate clinic and specialty clinics, as well as cone beam technology and other cutting-edge additions. To date, the college has received more than $5.8 million in gifts and pledges to the Dunn Building Modernization, including seven-figure gifts from Delta Dental of Tennessee and Arkansas, along with many generous gifts from UT dental alumni, friends of the college, regional dental societies, corporations and foundations. Recent major commitments include $500,000 from BlueCross BlueShield of Tennessee Health Foundation and $250,000 from the MidSouth Dental Congress, as well as an anonymous donation of $400,000.

“Thanks to our generous alumni and corporate partners who have already made commitments, modernization of the fourth floor undergraduate clinic is under way,” explains Dean Hottel. “We hope to have this first phase complete in the spring of 2010 and begin work on the specialty areas in phase two. Obviously, we still have a long way to go in terms of funding, so we ask all alumni to consider making a pledge to the campaign to help us make this dream a reality.”

Pledges may be paid over as many as five years and there are numerous naming opportunities available. If you have not yet done so, please consider making a gift or pledge to the Dunn Building Modernization Campaign. In addition, if you would be willing to host an alumni reception in your area, please let us know. For more information or to make a gift, please contact Tim Lanier, director of Development, at (800) 733-0482 or tlanier@tennessee.edu.
The UT Dental Alumni Board of Trustees has committed $250,000 to the College of Dentistry to support the Dunn Building Modernization Campaign. The donation will specifically be used to renovate the dean’s suite. The funds were generated through the MidSouth Dental Congress, an annual continuing education program, which is coordinated by the board.

“The dean’s suite is the front door of the college, whether you are a prospective student, potential faculty member, returning alumnus or corporate partner,” explains Becky Barton, DDS, president of the alumni association. “As alumni, we felt like this gift was a great way to make a tangible difference in the college.”

The MidSouth Dental Congress, now in its 15th year, provides annual continuing education for the entire dental team. In addition, class reunions and other alumni events take place during the meeting, held in late February or early March each year. The meeting has grown every year and is now able to address one of its major long-term goals – to provide direct support for the college.

“We are so excited to be able to make this gift to the college,” says Fred Heros, DDS, chair of the board. “The MidSouth Dental Congress has become a premier dental meeting and we are fortunate that the college can benefit from its success.”

The renovations to the dean’s suite will certainly help the college in terms of its curb appeal with prospective students and faculty members. In addition, the facility will be updated with the latest technology to give the college a boost in terms of presentations and conferencing.

“The alumni board has done an outstanding job building the MidSouth Dental Congress into a great meeting,” says Dean Timothy Hottel. “One of their original goals was to provide financial support for the college and this very generous donation does just that. Everyone who attends the MidSouth Dental Congress can know that their participation has a direct impact on the college and dental education as a whole.”

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**Continuing Dental Education • February to July 2010**

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<tr>
<td>February 12-13</td>
<td>Administering Nitrous Oxide-Oxygen Sedation for the Dental Hygienist presented by Dr. Stan Covington. Memphis, Tenn.</td>
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<tr>
<td>February 13</td>
<td>Monitoring Nitrous for Assistants presented by Dr. Stan Covington. Memphis, Tenn.</td>
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<td>February 19</td>
<td>Transitional Bonding and More. A lecture and hands-on presented by Dr. Corky Wilhite. Memphis, Tenn.</td>
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<td>February 17-18</td>
<td>Local Anesthesia presented by Dr. Carl Sebelius. Memphis, Tenn.</td>
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<tr>
<td>February 25-26</td>
<td>March 1-5 Expanded Functions for Dental Auxiliaries (Restorative). Memphis, Tenn.</td>
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<tr>
<td>March 1 (begins)</td>
<td>MidSouth Dental Congress. Memphis, Tenn. <a href="http://www.midsouthdentalcongress.com">www.midsouthdentalcongress.com</a></td>
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<tr>
<td>March 12-13</td>
<td>Radiology for Dental Assistants presented by Dr. Jahanzeb Chaudhry. Memphis, Tenn.</td>
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<tr>
<td>March 19</td>
<td>Sealants for Dental Assistants presented by Dr. Billy McCann. Memphis, Tenn.</td>
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<tr>
<td>April 9</td>
<td>White and Red Lesions of the Oral Mucosa Including Precancer and Immune-Mediated Mucositis and an Oral Pathology Primer for General Practice presented by Dr. Yeshwant Rawal. Knoxville, Tenn.</td>
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<tr>
<td>April 10-11</td>
<td>Coronal Polishing presented by Dr. Joan Schmitt. Nashville, Tenn.</td>
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<tr>
<td>April 16</td>
<td>Management of Dental Trauma presented by Dr. Lina Cardenas. Memphis, Tenn.</td>
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<tr>
<td>April 30</td>
<td>What You Should Know About Osteoporosis, Bisphosphonate Osteonecrosis, and Oral Complications of Cancer Therapy presented by Drs. Anastasios Karydis and Cesar A. Migliorati Memphis, Tenn.</td>
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<tr>
<td>June 17-27</td>
<td>10-Day Dental CE Tour of Ireland</td>
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<tr>
<td>July 23-24</td>
<td>Coronal Polishing presented by Dr. Joan Schmitt. Memphis, Tenn.</td>
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<tr>
<td>July 30</td>
<td>Dental Hygiene Update. Memphis, Tenn.</td>
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For more information on these courses, please call (901) 448-5386 or visit us online at http://cde.uthsc.edu
A College of Dentistry First

Jahanzeb Chaudhry, BDS, MDSc, assistant professor and director in the Division of Oral and Maxillofacial Pathology, recently passed the American Board of Oral and Maxillofacial Radiology examination. Dr. Chaudhry is now a diplomate on the board, making him the first board-certified radiologist in the history of the UT College of Dentistry.

CODA Appointments

Marty Donaldson, DDS, and Mark Patters, DDS, PhD, have been reappointed as consultants for the Commission on Dental Accreditation (CODA) for one year. CODA formulates and approves accreditation standards by which educational programs are evaluated; establishes policies and procedures for conducting the accreditation program; determines and publicizes program accreditation status; and appoints consultants and site visitors to assist in accreditation activities.

2009 Faculty Publications

The following list contains articles, books and citations that the UT College of Dentistry faculty have appeared in during 2009.

Articles


Harris EF, Smith RN. Accounting for measurement error: A critical but often overlooked process. Archives of Oral Biology 54, Supplement 1, 2009:S107-S117.

Washington University School of Dental Medicine Alumni Association President Gil Hart, DMD, (left) presented the 2009 Distinguished Alumnus of the Year Award to Hiram Fry, DDS, MS, (right) professor of periodontology. The award was presented at the Washington University School of Dental Medicine’s 143rd annual reunion in St. Louis, Mo.
The Alumni Endowment Fund

The Alumni Endowment Fund provides faculty with an opportunity to develop research skills. Alumni and others who contribute to the endowment fund have every right to be proud of the advances in research that have resulted from their generosity. For additional information regarding individual projects, please contact the investigator(s). If you would like to make a gift or pledge to the Dental Alumni Endowment Fund, please contact Tim Lanier, director of Development, at (800) 733-0482 or tlanier@tennessee.edu.

Previously Funded Grants

Effect of Bisphosphonates on the Production of Mediators of Osteoclastogenesis (RANKL, OPG, and IL-6) by Human Gingival Fibroblasts

Investigators: David A. Tipton, DDS, PhD, Dental Research Center and Department of Periodontology; Brett A. Seshul, DDS, resident, Department of Periodontology

Amount Funded: $14,770
Project Period: April 2007 to May 2008

Osteonecrosis of the jaw (ONJ) is associated with the use of bisphosphonates (BPs), which reduce bone resorption and turnover and are used to prevent and treat resorptive bone diseases. BP-related ONJ usually occurs in patients receiving higher potency IV BPs, but can occur in those taking oral BPs. BPs are potent osteoclast inhibitors, resulting in bone necrosis. Osteoblasts and T cells regulate osteoclastogenesis via receptor activator of NF-κB ligand (RANKL), which activates osteoclasts, and osteoprotegrin (OPG), a RANKL antagonist. Another bone regulator, interleukin 6 (IL-6), stimulates osteoclast precursor recruitment/differentiation. BPs increase osteoblast OPG and decrease RANKL and IL-6, suggesting BPs strongly inhibit osteoclast recruitment/activation. Oral fibroblasts also produce OPG, RANKL, and IL-6, but their role in bone metabolism, effects of BPs on their production by gingival fibroblasts, and their potential contribution to ONJ, are unknown. The overall purpose of the project was to study the role of human gingival fibroblasts in the pathogenesis of BP-related ONJ. The BPs alendronate and pamidronate were investigated.

Methods: Two normal human gingival fibroblast cell lines were used. Cytotoxicity was determined using an assay that measures the activity of a mitochondrial enzyme. Fibroblasts were preincubated with or without alendronate or pamidronate (10-6-10-11M) for 24-hours in serum-free medium, then incubated without a stimulus or with bacterial lipopolysaccharide (LPS) (10 µg/ml) or the pro-inflammatory cytokine IL-1β (1x10-10M) for six days. IL-6, OPG or RANKL in culture supernatants was measured by specific enzyme linked immunosorbent assay. Data were analyzed using ANOVA.

Results: LPS (≤ 50 µg/ml) or bisphosphonates (10-6-10-11M) were not cytotoxic. The cells constitutively produced detectable levels of IL-6, OPG, and RANKL which were stimulated at day six by IL-1β and LPS (p ≤ 0.04). Alendronate and pamidronate generally increased constitutive IL-6 and OPG (p ≤ 0.04) and decreased constitutive RANKL (p ≤ 0.02). Alendronate and pamidronate generally further increased LPS- or IL-1β-stimulated IL-6 (p ≤ 0.04) and had no effect or further increased LPS- or IL-1β-stimulated OPG (p ≤ 0.04). In contrast, alendronate and pamidronate decreased both LPS- and IL-1β-stimulated RANKL production (p ≤ 0.04). Alendronate and pamidronate generally decreased constitutive, LPS-stimulated, and IL-1β-stimulated RANKL/OPG (p ≤ 0.02). A decreased RANKL/OPG ratio is indicative of inhibition of bone degradation.

Conclusions: Gingival fibroblasts produce osteoclast regulatory molecules, which are increased the presence of infection or inflammation. The results suggest that the action of alendronate and pamidronate on human gingival fibroblasts, through the alteration of production of RANKL and OPG, could contribute to a microenvironment favoring inhibition of bone resorption, potentially contributing to ONJ. There is little information on the contribution of gingival fibroblasts to the RANKL/OPG signaling network. Because surgical intervention is often ineffective and can even worsen bisphosphonate-associated ONJ, it is important to understand more clearly cellular details of its pathogenesis that may facilitate its treatment or prevention. Analysis of fibroblast production of mediators of osteoclastogenesis, as well as the effects of BPs, will lead to greater understanding of BP-related ONJ and possibly other bone-resorptive oral diseases such as periodontitis, and could also lead to the development of pharmacologic preventive or therapeutic agents that dentists can use in treating the painful and devastating effects of BP-related ONJ.

Effect of Methamphetamine on Gingival Fibroblast Production of Matrix Metalloproteinase (MMP)-2 and -9 and Tissue Inhibitor of Matrix Metalloproteinases (TIMP)-1 and -2 In Vitro

Investigators: David A. Tipton, DDS, PhD, Dental Research Center and Department of Periodontology; Owais A. Farooqi, DDS, Resident, Department of Periodontology

Amount Funded: $14,970
Project Period: April 2008 to May 2009

Methamphetamine (METH) is a widely abused psychostimulant. Several case reports have been published on the effects of METH on oral tissues. The clinical picture of “METH mouth” is one of rampant caries, xerostomia, and periodontal disease. However, there are no published studies on the effects of METH on specific oral tissue cells, such as fibroblasts and their activities. Matrix metalloproteinases (MMPs) are enzymes produced by gingival fibroblasts which degrade the extracellular matrix (ECM) and have roles in physiologic and pathologic tissue remodeling. MMPs play an important role in periodontal tissue destruction as well as metastasis of oral cancer, but there is no information on the effects of METH on gingival fibroblast production of MMPs. The role of METH in the incidence and severity of periodontitis, or in the incidence and metastasis of oral cancers, is unknown.

MMP-2 and MMP-9 (72kDa and 92kDa type IV collagenases or gelatinase A and gelatinase B, respectively) are upregulated in periodontitis patients and are associated with the malignant phenotype of tumor cells due to their ability to degrade type IV collagen, a major component of basement membranes. Elevated MMP-2 and MMP-9 activities are important in metastatic cancers such as ovarian carcinoma and oral cancers. MMP activity is under control of several factors including endogenous specific inhibitors, the tissue inhibitors of metalloproteinases (TIMPs). The balance between activated MMPs and tissue inhibitors of metalloproteinases TIMPs influences the extent of ECM remodeling and tissue breakdown in periodontitis. The overall purpose of this project was to examine the effects of METH on human gingival fibroblasts.

Methods: A normal human gingival fibroblast cell line was used for this project. METH cytotoxicity was determined by measuring its (continued on next page)
The Alumni Endowment Fund

Recently Funded Grants

Distribution and Osteogenic Potential of Mesenchymal Stem-like Periodontal Ligament Cells in Periodontal Health and Disease

Investigators: Anastasios Karydis, DDS, MS, PhD, assistant professor, Department of Periodontology; Jacob Shiloh, DMD, professor, Department of Periodontology; David A. Tipton, DDS, PhD, associate professor, Department of Periodontology; Swati Rawal, BDS, MDS, MS, assistant professor, Department of Periodontology; Yeshwant Rawal, BDS, MDS, MS, assistant professor, Department of Oral and Maxillofacial Pathology

Amount funded: $15,000
Project Period: September 1, 2009 to August 31, 2011

The objective of this study is to identify the stem-like pluripotent cells in the periodontal ligament (PDL) and to investigate the effect of periodontal disease on the distribution of these pluripotent PDL cells.

The specific aims of this project are to identify, isolate and quantify mesenchymal stem-cell like populations of PDL cells expressing mesenchymal stem cell (MSC) surface markers STRO-1 and CD146; determine whether MSC surface markers are expressed at different levels in healthy and diseased periodontal tissues; compare the ratio of mesenchymal stem-cell like populations of PDL cells expressing MSC surface markers STRO-1 and CD146 with dental pulp and gingival tissue cells; and determine the osteogenic potential of PDL cells from healthy and diseased periodontal tissues expressing MSC surface markers STRO-1 and CD146.

Materials and Methods: This in vitro study will utilize human cells obtained from discarded and excised tissues from three sources – extracted human teeth from patients with intact (non-reduced) periodontium at the Maxillofacial Surgery Clinic at the University of Tennessee Health Science Center (UTHSC) in Memphis; extracted human teeth from patients with untreated chronic severe periodontitis at the periodontal clinic at UTHSC; and excised oral soft tissues from patients undergoing periodontal surgery at the periodontal clinic at UTHSC. The teeth will be extracted for orthodontic, periodontal and/or restorative reasons and not for reasons related to this research project. The discarded oral soft tissue will be obtained during routine periodontal surgery and not for reasons related to this research project. Seventy-five participating patients, who will require the above treatments (extractions and/or periodontal surgery), planned by their dental care provider(s), will be asked to volunteer and sign a repository consent form that permits the use of the discarded teeth and/or tissues for the purpose of this study. Primary human periodontal ligament cells will be obtained from healthy periodontal ligament tissue of non-carious, freshly extracted third molars and/or premolars extracted for orthodontic purposes and from diseased periodontium of freshly extracted severe periodontitis teeth with hopeless prognosis.

Periodontal health and disease will be confirmed by a brief clinical assessment by one of two calibrated examiners and the evaluation of the relevant radiographs. PDL fibroblast cultures will be prepared by outgrowth from explant cultures. When the cells growing from explants will reach confluence, they will be subcultured and expanded before further analysis by immunohistochemistry, cell staining and cell sorting by flow cytometry with STRO-1 and CD146. Frozen cell stocks will also be made. The PDL stem-like cells self-renewal ability will be confirmed by repeating flow cytometry analysis and cell staining for continuous expression of STRO-1 and CD146. The stem-like PDL cell distribution and abundance will be compared between healthy and severe periodontitis teeth by flow cytometry and immunocytochemistry. The osteogenic potential will be tested under osteogenic induction conditions with the Alkaline Phosphatase (ALP) activity assay at 14 and 28 days post-osteogenic induction. Mineral accumulation will also be detected by staining with Alizarin Red at 14 and 28 days postosteogenic induction. Cell preparations from dental pulp will serve as positive control for pluripotent cells, while cells from discarded soft gingival tissues away from the sulcus will serve as negative controls.

Significance: Currently periodontal therapy aims to cessation of destruction of periodontal tissues. Regeneration of the periodontal apparatus is limited and often unpredictable. New techniques in periodontal regeneration may arise by the manipulation of the already existing in the PDL pluripotent mesenchymal stem-like cells, and the identification and isolation of these stem-like cells is the first step in this approach. The availability of these techniques and stem-like cells at the UT College of Dentistry can facilitate and accelerate many further research projects aiming in the manipulation and control of the regenerative potential of the PDL in periodontal, implant and maxillofacial surgical techniques.
Instrumentation for Energy Emission and Spectral Analysis of Dental Composite Curing Lights

Investigator: Waldemar G. de Rijk, MS, PhD, DDS, director, Division of Biomaterials, associate professor, Restorative Dentistry

Amount funded: $8,190
Project Period: October 1, 2009 to September 30, 2010

In the past the Division of Biomaterials has measured the total power and the spectral emissions of dental curing lights. The power measurements were calculated with a simple uncalibrated radiometer and the spectral emissions were measured with an “antique” (purchased in 1966) modified atomic absorption spectrophotometer. The spectrophotometer can no longer be adequately calibrated to intensity and wavelength. It is imperative for our optical studies that this spectrophotometer be replaced. This proposal seeks to obtain an integrating sphere with a photodiode to measure the total power (mW/cm²) from the curing light and use a CCD based spectrometer to determine the wavelength distribution of the curing light. The data will be collected with an available laptop computer.

Background: Composite curing lights for light-cured composites and other light-cured materials are a mainstay of restorative dentistry. From a dental student’s second-year on, all possess a curing light. The curing lights must able to produce light at a minimum of 600 mW/cm², and have an emission spectrum of at least 400-500 nm. In the past our measurements have shown that the output of Tungsten-Quartz-Halogen curing lights decreases over time due to light bulb deterioration and contamination of the fiber optic probe. These measurements were done with a simple radiometer with limited infra-red filtering, making measurements comparing lights of different design not feasible. When the LED curing lights were introduced to dental practice, it was found that the spectral width of the LED was too narrow to cure all materials, especially the lighter shades of composites. It was also determined that the output of battery operated LED light decreased up to 20 percent, depending on the charge status of the battery.

Manufacturers continuously change the design and properties of curing lights, and new models keep being introduced. Since January 1, 2009, four new curing lights have been introduced (Demi, Kerr; Fusion, DentLight; Lumena, Ultradent; BluPhase II, Ivoclar). Each year the faculty of Restorative Dentistry requests that the Division of Biomaterials evaluates curing lights and forward a recommendation to the Clinical Affairs Committee. This year the recommendation was made based on insufficient data. The spectral measurements were made with a Hitachi PerkinElmer UV-VIS spectrophotometer model 139-0010, acquired with a grant from the L. G. Noel Foundation in 1966. This machine was designed for absorption measurements and not for emission spectra. In 2002, the machine was modified to measure emissions, and did so successfully until October 2008. The calibration lamp (helium emissions) failed, and the gear drive for rotating the grating showed large gear lag, making accurate wavelength measurements impossible. For the above reasons we propose to have a new system for continuing the optical measurements. The radiometer will be replaced with an integrating sphere, a photodiode and a standard light source. Integrating spheres are the standard for power measurements, and this particular system (Edmund Optics) will be traceable to NIST. The spectrophotometer will be replaced with a CCD base spectrometer (Edmund Optics) that will project the spectrum on a CCD array, providing instant recording of the spectrum in digital form. A spectrophotometer measures each wavelength individually in analog form, whereas a spectrometer measures the entire spectrum at once on an imaging device (CCD). The spectrometer comes with data acquisition software and spectrum processing. Optical fiber connections will be needed for connecting light sources to the spectrometer. A standard spectrum source will be needed for calibration (Deuterium and Tungsten lamp). These two pieces of equipment will enable us to provide reliable data on curing lights and other dental light sources such as trans-illuminators. A side benefit is that digital data acquisition will proceed much faster. Scanning a single spectrum with our old (defunct) system takes 25 minutes. With the new system, it will only take five seconds.

An Ultra-structural Evaluation of the Resin-dentin Bond in Root Canals Conditioned with Phosphoric Acid and Ethylenediamine Tetra-acetic Acid

Investigators: Peter M. Di Fiore, DDS, MS, associate professor, Endodontics; Van T. Himel, DDS, professor, Endodontics; Jeffrey Phebus, DDS, assistant professor, Endodontics; Waldemar G. de Rijk, MS, PhD, DDS, professor, Division of Biomaterials

Amount funded: $16,300
Project Period: July 1 to October 30, 2009

The specific aim of this project is to compare the quality of the resin-dentin bond in prepared root canals conditioned with either 15 percent phosphoric acid (H3PO4) [group 1] or 15 percent ethylenediamine tetra-acetic acid (EDTA) [group 2], by SEM ultra-structural examination of the resin-dentin interface. The root canals of twenty-five intact caries free single rooted decoronated extracted human teeth will be endodontically prepared in a clinically relevant manner and conditioned with either H3PO4 or EDTA solutions prior to application of an adhesive resin bonding agent. The roots of the resin-filled teeth will then be cross sectioned into thirds producing surfaces for SEM examination of the resin-dentin interface in order to assess the amount of resin tags and degree of nonartifactual gap formation. The means and standard deviations for each assessment data will be statistically analyzed to determine if there is a significant difference between the two groups.

The general long term objective of this study is to improve the ability of resin-based root canal sealers to produce a fluid-tight seal with dentin during the obturation phase of endodontic treatment in order to prevent microleakage. Since the state of the dentin surface is a critical factor for adhesion of resin sealers, an etching solution should greatly improve resin bonding. Phosphoric acid is an effective etchant and dentin conditioner that is used extensively for bonding composite resin restorations but has not been applied for root canal fillings. This study will investigate phosphoric acid as a potential root canal irrigating and conditioning solution in order to improve the resin-dentin bond in obturated root canals.

The question that this research will attempt to answer is which one of two dentin conditioning agents, either EDTA or H3PO4, will produce a more integrated and intimate bond with a dentin adhesive resin bonding system in prepared root canals. The hypothesis that will be tested is that H3PO4 will be superior to EDTA as a conditioning agent in producing a dentin-resin bond.
(continued from page 26)


Books


Book chapters


Citations

Migliorati CA, Natural history of osteonecrosis of the jaw defined. Nature Reviews Endocrinology 2009; 5:184
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