



Penn Dental Journal

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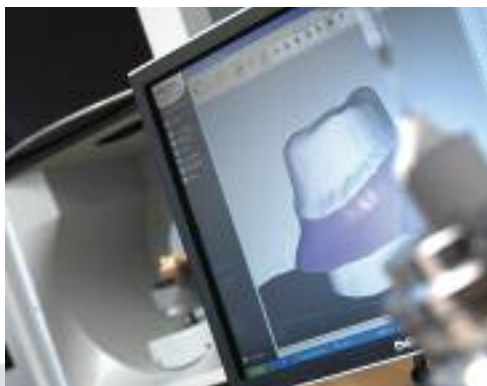
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ON THE COVER: The new CAD/CAM Ceramic Center, located on the third floor of the Evans Building, features a state-of-the-art laboratory for the fabrication of highly esthetic ceramic restorations. Michael Bergler, a master dental technician (pictured), leads the center with Dr. Markus Blatz, Chairman of the Department of Preventive and Restorative Sciences. Mr. Bergler is internationally recognized for ceramic restoration fabrication and has published and lectured extensively on restorative materials, esthetic dentistry, and dental technology.



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A Message

FROM THE OFFICE OF THE DEAN

With the end of the academic year nearly upon us, I first want to take this opportunity to recognize our graduating Class of 2009. To each of you, I extend my personal congratulations on your achievements during your years here at Penn Dental Medicine, wish you continued success as you enter the next chapter of your dental career, and remind you that you will always be part of the Penn Dental Medicine community.

As the Class of 2009 looks to the future, this is a time when the School is doing the same. On July 1, we are pleased to welcome the next Dean of Penn Dental Medicine, Dr. Denis F. Kinane (*see story, page 16*).

Dr. Kinane, who currently serves as the Delta Dental Endowed Professor in the Department of Periodontics, Endodontics and Dental Hygiene and Associate Dean for Research and Enterprise at the University of Louisville School of Dentistry and a Professor of Microbiology and Immunology in the University of Louisville School of Medicine, brings a wealth of experience to this leadership role, and I look forward to working with him. Since his selection in February, we have been in close communication to ensure a smooth transition of the deanship in our shared commitment to maintaining strength and stability within the School's programs and within our student body, faculty, and staff. Looking ahead, I am excited and optimistic about the School's continued growth and leadership on all fronts — education, research, and patient care.

Within this academic year, we took a significant step in advancing our leadership position within restorative dentistry with the opening of the School's CAD/CAM Ceramic Center (*see story, page 2*). Featuring the latest CAD/CAM systems on the market in a state-of-the-art laboratory for the fabrication of highly esthetic ceramic restorations, the Center will be home to new teaching, research, and clinical efforts across disciplines. And through a gracious agreement with PracticeWorks Systems L.L.C., the School also added to its diagnostic resources this year, acquiring a state-of-the-art Kodak 9000C 3D CT Extraoral Imaging System (*see story, page 17*).

Also highlighted in this issue of the *Penn Dental Journal* are programs that continue to extend the School's international reach and educational opportunities (*see story, page 10*) and an ongoing collaboration across campus with the University's Abramson Cancer Center (*see story, page 6*) that provides preventive and diagnostic dental care to cancer patients along with shared research and teaching resources.

Finally, with my service as Interim Dean soon coming to a close, I want to thank you — the entire Penn Dental Medicine community — for your support over the past year. It has been an honor to serve the School in this capacity.



Thomas P. Sollecito, DMD

THOMAS P. SOLLECITO (D'89, GD'91)
Interim Dean

Bringing Da Vinci to Dentistry

The new CAD/CAM Ceramic Center at Penn Dental Medicine boldly unites art and science.

BY JENNIFER BALDINO BONETT



Renaissance genius Leonardo da Vinci appreciated the connections between man and machine like no one before him. As an artist, inventor, and anatomist, da Vinci possessed both a deep understanding of the human body and the ability to express it brilliantly.

Today, in the Department of Preventive and Restorative Sciences at Penn Dental Medicine, there is an innovative new union between man and machine. CAD/CAM technology (computer-aided design/computer-aided manufacturing) has ushered in a Renaissance for dental restoration.

The new Penn Dental Medicine CAD/CAM Ceramic Center is dedicated to the study and application of the latest dental technologies in CAD/CAM and all-ceramic restoration materials, bringing together exceptional expertise in clinical dentistry, scientific investigation, and dental laboratory techniques. Leading the Center are Markus B. Blatz, DMD, PhD, who chairs the Department of Preventive and Restorative Sciences, and Michael Bergler, MDT, who is manager of Dental Laboratory Technology. Both are internationally recognized for their clinical and scientific contributions to esthetic and restorative dentistry.

"Dentistry is undergoing a fundamental transition from traditional clinical and laboratory procedures to CAD/CAM fabrication and all-ceramic dental restorations," says Dr. Blatz. "In many countries around the world, CAD/CAM technology and all-ceramics have become essential parts of modern prosthetic, restorative, and implant dentistry." Dr. Blatz — trained in prosthodontics, CAD/CAM technology, and dental material sciences in his native Germany — set out to establish a CAD/CAM center when he arrived at Penn Dental Medicine in 2006. "The Center is the culmination of the training and work we have done in the past and the strong relationships we have built with our colleagues and industry partners around the world," says Dr. Blatz. "I have always envisioned a unique and interdisciplinary venture that has a clear focus on one of

the most exciting aspects in modern dentistry, while merging excellence in research, teaching, and patient care. And Penn Dental Medicine, with its stature and exceptional infrastructure, is the ideal venue." With his goal realized, Dr. Blatz expects the Center to position Penn Dental Medicine "as an international platform for world-class research and education in the restorative sciences."

CAD/CAM allows clinicians to scan models and casts (and, with some systems, impressions and actual teeth) to create a 3D computer model, yielding what Dr. Blatz calls "extremely well-fitting restorations." Beyond the traditional wax or alloy model, CAD/CAM allows dentists and dental laboratory technicians to design substructures for exacting restorations with precision down to the micrometer and customized for each patient's individual needs.

The core of the Center, on the third floor of the Evans Building, features the most prominent CAD/CAM systems currently on the market in a state-of-the-art laboratory for the fabrication of highly esthetic tooth- and implant-supported ceramic restorations. The Center will be home to new teaching, research, and clinical efforts only possible through CAD/CAM and high-level ceramic materials. At work in the Center, with its sleek, molded countertops and powerful machines so streamlined that they look like unpretentious computer

monitors and laboratory cases, is Michael Bergler, who joined Penn Dental Medicine in June 2008.

Meet the Artist. Mr. Bergler is a master dental technician, a formal title with 10 years of education and residency behind it in his native Germany. He trained at the University of Erlangen–Nuernberg and earned his Certificate for Master Dental Technician (MDT) at the Masterschool of Freiburg. In practice for 11 years, Mr. Bergler is internationally recognized for ceramic restoration fabrication and has published and lectured extensively on restorative materials, esthetic dentistry, and dental technology.

"I am honored that we were able to recruit one of the up-and-coming international stars in dental laboratory technology," says Dr. Blatz, who has worked with Mr. Bergler in Germany and the U.S. "His arrival at Penn is a tremendous gain for the School and for the whole dental community."



Pictured: While high-tech CAD/CAM systems generate the substructures, the artistry of creating the intricate and subtle features of a natural tooth is done by hand. Master dental technician Michael Bergler builds the individual teeth by hand, applying the layers of ceramic on the copings and frameworks.

The role of master dental technician is a new area of expertise for Penn Dental Medicine. "Most computer-aided design systems only generate the substructure for a restoration," explains Dr. Blatz. "Michael plans and designs these substructures and then does the artwork of building the individual teeth by hand and applying the layers of ceramic on top of the copings and frameworks. Despite all technical advancements, machines are not able to recreate the intricate and subtle esthetic features of a natural tooth. That's why his artistic expertise is so important."

Mr. Bergler will be involved in teaching and instruction at all levels, from undergraduate preclinics to continuing education courses for practicing clinicians and laboratory technicians. "We believe that close collaboration with the laboratory technician is absolutely crucial for success in restorative dentistry, yet currently, our curriculum does not reflect that sufficiently," notes Dr. Blatz. "With input from a world-class master technician, we will be able to strengthen our curriculum in that respect to educate a well-rounded dentist who has sound knowledge in up-to-date techniques and state-of-the-art technologies."



Leading Academic Expertise. CAD/CAM is transforming education in dental medicine. "Treatment plans for patients are different than in the past because of the availability of CAD/CAM," explains Najeed Saleh, DMD, Clinical Associate Professor in the Department of Preventive and Restorative Sciences and Director of Restorative Undergraduate Clinics. "Every dentist and every technician needs to have an understanding of the CAD/CAM systems and all-ceramic materials that are on the market — what's possible and what's not possible in using them. In academic dental medicine, it's critical to introduce the technology and to teach it properly."

The Center is poised to benefit students and practitioners across the academic spectrum:

- Clinical and even preclinical dental students will learn first-hand about the proper use and clinical application of CAD/CAM technology and new all-ceramic materials.
- Full- and part-time faculty will train in CAD/CAM techniques and new restorative materials.

- The Center also offers a platform for continuing education programs through national and international symposia, didactic presentations, and hands-on courses for practicing clinicians, dental staff and students, and laboratory technicians.

Generating Innovative Research. Interdisciplinary scholarship is a hallmark of the University of Pennsylvania. With 12 schools on Penn's unified campus, faculty at the Penn Dental Medicine CAD/CAM Ceramic Center and other leading investigators across the University can collaborate easily to enhance the study of materials, technology, and clinical applications. Within the area of materials research for example, the Center is working with the Department of Material Science and Engineering at Penn's School of Engineering and Applied Science — an authority in the area of ceramic engineering — to study the fatigue behavior of modern high-strength and multi-layer ceramics.

"We have some of the godfathers of ceramics material research and the most advanced research facilities right on our campus," says Dr. Blatz. "With the many open questions surrounding the biomechanical behavior and clinical application of new ceramic materials, there is an unbelievable opportunity to make our School and the University unique and to move the field forward."



In addition to materials testing, research at the CAD/CAM Ceramic Center will include the testing of protocols and framework designs; the review and development of software; and the evaluation of outcomes as these new technologies and materials are applied in the clinic.

Attaining Clinical Excellence. CAD/CAM technology and ceramic materials are setting new standards in patient care. Through the CAD/CAM Ceramic Center, says Dr. Blatz, Penn Dental Medicine clinicians can "manage complex restorative cases from start to finish and bring together technology, clinician, and technician for optimal care and successful outcomes."

From near-perfect accuracy in fabricating copings to crafting highly esthetic ceramic restorations, the work of the Center translates into enhanced clinical care among the School's diverse patient population and beyond. Faculty are

exploring strategies to make new technology and materials available to all patients. And most importantly, computer-assisted procedures hold promise for virtually every specialty in clinical dental medicine: oral surgery, orthodontics, prosthodontics, periodontics, and implant dentistry.

A case in point: The typical implant surgery requires a large surgical flap opening in the gingiva. Computer-assisted surgery allows clinicians to plan implant placement virtually, based on restorative needs. With the help of CT-scans, the placement oftentimes does not require a large surgical flap and yields a precise implant placement. "The surgeon has a CAD/CAM-fabricated surgical guide that is designed according to prosthetic requirements and takes best advantage of the anatomy and morphology of the bone. Here we know exactly

how much bone is available and place the best-dimensioned implant at the most accurate angle and position," explains Dr. Blatz. "And then a restoration can be inserted immediately after the implant placement because all the information is available on the computer. CAD/CAM technology significantly increases the pre-



dictability, reliability, and esthetic outcome of even the most complex rehabilitations. Our most compromised patients who have lost all their teeth and large amounts of bone have a much better chance of receiving well-functioning and good-looking implant-supported prostheses, which have a tremendous impact on their quality of life."

"The Center puts the School in a leadership position within restorative dentistry and will be a great resource across disciplines," says Interim Dean Thomas Sollecito (D'89, GD'91). "In bringing together the knowledge and resources to pursue leading-edge education, research, and patient care, we are also attracting the interest of potential collaborators and other high-caliber academicians from around the nation and the world."

Opening the CAD/CAM Ceramic Center is like opening the door to the future of dentistry. "The sky is the limit," says Dr. Blatz. "And we're just getting started." **PDJ**



CAD/CAM 101: THE 60-SECOND MIRACLE

In about the time it took Olympic swimmer Michael Phelps to set a world record, dental technicians can now design superb dental restorations. With CAD/CAM technology (computer-aided design/computer aided manufacturing), designing a restorative coping no longer takes hours of intensive manual labor. It takes the push of a few buttons and about 60 seconds.

In the Penn Dental Medicine CAD/CAM Ceramic Center, Michael Bergler, MDT, needs to make a single-tooth coping. He takes a single-tooth die created from a dentist's impression and inserts it into a specialized scanner. He moves to a computer screen and follows a handful of prompts to select his choice of material, resin, and abutment. Mr. Bergler tells the computer which tooth he wants to restore and selects the restoration type, in this case, a coping. With the push of a button, the computer

renders a 3D version of the die. Instantaneously. The resolution is extraordinary and he can see every detail. He submits the form electronically to an outside milling company and the finished coping arrives in his lab in two days, precisely the way he would have hand-crafted it.

With the advent of CAD/CAM, Mr. Bergler has been able to leave behind the old tools of the trade — the casting machine, the burnout furnace, the sandblaster. All he needs now are a scanner, a computer, and workspace to craft the ceramic veneer, still done by hand to ensure the most highly esthetic outcome.

Even the impression and the dental model are about to fall out of favor. Next up at Penn Dental Medicine is an intraoral scanner, used by the dentist to make a digital impression. The accuracy? Even better than a physical impression.



Oral Health, Cancer, and the Quality of Life

Penn Dental Medicine's Department of Oral Medicine
and the University's Abramson Cancer Center join forces in a powerful
health care partnership.

BY JULIANA DELANY

In 2001, as an oral medicine resident at the Hospital of the University of Pennsylvania, Dr. Eric Stoopler (D'99, GD'02), Assistant Professor of Oral Medicine-Clinician Educator, was asked to examine a woman in the emergency room who was complaining of numbness in her chin and jaw. The ER doctors were puzzled. Was it some kind of dental infection? After carefully reviewing the patient's history, performing a physical exam, and evaluating additional diagnostic tests, Dr. Stoopler concluded that the woman's numbness was a neuropathy caused by an undiagnosed recurrence of her breast cancer, which had metastasized.

The case underscored the critical importance of dentistry in the care of cancer patients, an area in which Penn Dental Medicine has long been at the forefront. For more than 20 years, through a valuable collaboration with Penn's Abramson Cancer Center, Penn Dental Medicine's Department of Oral Medicine, working with faculty from Oral Surgery and Pathology, has been providing preventative and diagnostic dental care to patients with leukemia, multiple myeloma, lymphoma, and other cancers. And with it, helping to vastly improve the quality of life for many cancer patients.

Dr. Martin Greenberg (GD'68), who began the School's residency program in Oral Medicine in 1980 and who is presently Chief of Oral Medicine at the Hospital of the University of Pennsylvania, believes that although Dr. Stoopler's experience was particularly dramatic, cases involving oral complications in cancer patients are unfortunately very common. "Every patient who undergoes cancer chemotherapy or head and neck radiation is at risk for painful and sometimes life-threatening lesions of the mouth, for systemic infections that begin in the mouth, and, as was the case with Dr. Stoopler's patient, for secondary malignancies that can present in the mouth," he says.

"Cancer and cancer therapy often have profound oral implications," adds Dr. Thomas Sollecito (D'89, GD'91), Interim Dean of Penn Dental Medicine, Professor of Oral Medicine-Clinician Educator, and a member of the Abramson Center. "Chemotherapy and radiation therapy

can have devastating effects on oral health, and that's why the team approach at Abramson is so important. We can ameliorate many complications from cancer therapy and make early diagnoses when we see cancer patients regularly before, during, and after their therapies. Avoiding oral complications during cancer therapy can minimize cancer treatment interruptions."

A Department Ahead of Its Time. The partnership with the Abramson Center continues a history of forward thinking in the Department of Oral Medicine, which has long enjoyed a reputation for its leadership in the discipline. Its first chair, Dr. Lester William Burket (D'32), is often referred to as "the father of oral medicine." As department chair from 1944 through 1951, and later as Dean of Penn Dental Medicine from 1951 through 1972, Dr. Burket consistently advocated

for the integration of general medicine into dental education and practice. He is considered responsible to a great extent for the modern understanding of oral health as it relates to systemic health, and for reinforcing the idea of dentists as primary health care providers. His book, *Burket's Oral Medicine*, first published in 1946, quickly became the leading text within the specialty and remains so now in its 11th edition (published in 2008 with Dr.

Greenberg serving as senior editor of the text

and 9 other Penn Dental Medicine faculty members, including Drs. Sollecito and Stoopler, also contributing). Dr. Burket was also a leader in scientific research involving oral lesions, and his legacy of education and research continues to inspire and inform the department today through collaborations like those at the Abramson Center.

A Center for Excellence. The Abramson Cancer Center, founded in 1973, recently became a part of Penn's new Perelman Center for Advanced Medicine, which opened this past fall, and is one of only 39 cancer centers in the country designated a Comprehensive Cancer Center by the National Cancer Institute. In a single year, the Center treats as many as 50,000 outpatients and 7,400 inpatients, and provides 24,000 chemotherapy treatments and 66,000 radiation treatments.

One of Abramson's 300 faculty members, Dr. David Porter, Director of Allogeneic Stem Cell Transplant and Professor of Medicine, runs one of the top transplant pro-



Pictured (left to right): Dr. Martin Greenberg, Acting Chair and Professor of Oral Medicine; Dr. Eric Stoopler, Assistant Professor of Oral Medicine-Clinician Educator; and Dr. Thomas Sollecito, Interim Dean and Professor of Oral Medicine-Clinician Educator, support patient care at the Abramson Cancer Center.

grams in the country. Dr. Porter performs bone marrow transplants for patients with leukemia, multiple myeloma, and lymphoma, and is grateful for the support and expertise of the Penn Dental Medicine team in his work.

"Patients undergoing cancer therapies are tremendously immuno-suppressed and are at huge risk for life-threatening infections that can develop in the oral cavity," he explains. Dr. Porter works closely with transplant patients experiencing graft vs. host disease, in which newly transplanted material can attack the recipient's body, and which can often lead to complications in the mouth, including secondary malignancies of the tongue. His work has included a close association with Dr. Sollecito, whom he consults with frequently on cases. "In my mind, our partnership with Penn Dental Medicine is crucial to running a transplant program effectively," he says. "It is one of the easiest, most productive collaborations I have experienced at Penn. My colleagues in oral medicine are well-trained, effective, and offer superb patient care."

Meeting of Minds. Abramson physicians like Dr. Bert O'Malley also find the dental perspective invaluable. "Identifying pre-cancerous and cancerous oral lesions is a highly complex area," he says. "Our dental colleagues are instrumental in helping determine what is cancer, what isn't cancer, and what

"Our dental colleagues are instrumental in helping determine what is cancer, what isn't cancer, and what might eventually become cancer ... it's an excellent collective resource."

DR. BERT O'MALLEY, PHYSICIAN, ABRAMSON CANCER CENTER

might eventually become cancer. Surgeons are used to being able to identify problems at the cancer level, but not at the pre-cancerous level. We work back and forth and keep in constant communication with the dentists...it's an excellent collective resource."

In addition to the Department of Oral Medicine, Penn Dental Medicine's departments of Pathology and Oral and Maxillofacial Surgery also have faculty members who practice at Abramson. Dr. Faizan Alawi, Assistant Professor of Pathology, represents the Department of Pathology. Dr. Kendra Schaefer and her colleague Dr. Elizabeta Evtimovska,

both maxillofacial prosthodontists from the Department of Oral Surgery, often review cancer cases at weekly meetings of the Abramson Center's Tumor Board. Dr. Schaefer and Dr. Evtimovska work closely with the Abramson oncologists after cancer surgery. Many of their patients are missing the roofs of their mouths, their soft palates, their tongues or mandibles as a result of surgical procedures to remove tumors. Other patients might lose an eye, ear or nose from cancer.

"My job is to replace the missing parts prosthetically to help restore normal daily function," Dr. Schaefer says. "Without oral prosthetics, many of the patients cannot talk or eat. Without facial prosthetics, many will not leave their homes. Basically, I tell my patients that after the surgeon cures them of their cancer, it's my job to make sure they can maintain their quality of life."

Groundbreaking Research. Since the department's founding, research has been key to its mission. Drs. Greenberg, Sollecito, and Stoopler have all published extensively, authoring papers with doctors at the Abramson Center. In addition, each has expertise in cancer therapy as it relates to oral health.

For decades, Dr. Greenberg has been researching the relationship between chemotherapy, the oral cavity, and systemic infections. "When I first came to Penn in 1978, I became interested in the 25 to 30 percent of septicemia infections in cancer patients that are of unknown origin," he explains. "I wondered if the mouth could be the source, and suggested a research collaboration with the medical center." His research has changed the way that patients with leukemia, lymphoma, multiple myeloma, and those undergoing stem cell transplants are treated, beginning with a complete dental exam before starting any cancer therapy. Later, in 1985, Dr. Greenberg worked closely with Dr. Harvey Friedman, Chief of Infectious Diseases and a world-renowned researcher on herpes, in determining that herpes simplex infections are the source of serious oral ulceration in leukemia patients.

Dr. Stoopler is currently at work on two research protocols relating to multiple myeloma. The first, which he developed himself, is being funded by the Multiple Myeloma Research Foundation and is the only grant from that organization ever awarded to a dentist. It explores amyloid deposition, or the abnormal buildup of proteins in tissues and organs, which is a common cause of morbidity in patients with multiple myeloma. Dr. Stoopler's goal is to determine the best biopsy sites, both in the mouth and elsewhere, for detection of amyloid in the early stages of multiple myeloma.

The second protocol deals with the pharmacokinetics and pharmacodynamics of melphalan, a drug used to treat multiple myeloma. In this study, Dr. Stoopler is responsible for performing periodic oral soft tissue examinations of participating patients for detection of mucositis (inflammation of the oral mucosa), a common complication of cancer treatment.

Dr. Sollecito has recently been involved with research projects involving oral mucositis. His current interest is in determining when a pre-cancerous lesion in the mouth might become cancerous, and if there is some effective method of treatment to eradicate the lesion prior to it becoming cancerous.

Students Play an Important Role. Drs. Sollecito, Greenberg, and Stoopler see cancer patients on a regular basis at the Hospital of the University of Pennsylvania and also at its suburban extension, Penn Medicine at Radnor. Each patient seen by a dentist there is also seen by a Penn Dental Medicine oral medicine resident and a fourth-year dental student, who are considered integral parts of the oral medicine team.

"As we deal with an aging population, managing people on chemotherapy is something dentists are going to have to do more and more often," says Dr. Greenberg. "We need to educate our students in how to care for this group of patients."

As a result, Dr. Lena Turner (D'07, GD'09), a Penn Dental Medicine resident in the Department of Oral Medicine, has already been exposed to countless oncology patients before, during, and after cancer therapy, and has seen firsthand both how the oral cavity is affected and how the oral disease can affect the cancer patient. "The oral cavity is full of potentially pathogenic organisms that an otherwise healthy individual might be able to control," she says. "But in patients undergoing cancer therapy, this ability is compromised, so something as insignificant as a cold sore in a healthy individual might present as potentially life threatening. That's why pre-screening by dentists is so critical for this group of patients."

Undergraduate Penn Dental Medicine students also receive a thorough grounding in the field: first-year students are introduced to the topic through lectures on the signs and symptoms of disease, while second-year students receive in-depth lectures in Dr. Stoopler's internal medicine course, including Dr. Sollecito's lecture on bone marrow transplantation and its effect on oral health. Third-year students receive comprehensive background in Dr. Greenberg's oral medicine class, in which he explores the diagnosis and man-

agement of diseases of the oral mucosa, facial pain syndromes, and temporomandibular disorders, all in light of how they can present in patients with severe medical disorders. In addition, as fourth-year dental students complete their one-month hospital externship, either at HUP or at one of about 40 hospitals worldwide that participate in Penn Dental Medicine's externship program, they experience cases firsthand involving compromised oral health in cancer patients.



Oral medicine postdoctoral residents also see cancer patients. Dr. Eric Stoopler, Director of the Oral Medicine Residency Program (left), consults with resident Dr. Paola Higham (GD'10).

The Rewards of Working Together. For dental students at every level, Penn Dental Medicine's collaboration with the Abramson Center serves as an example of the importance of working together across disciplines to provide the best possible patient care, and of the vast rewards that come from making life easier and better for patients struggling with devastating disease.

Personally, says Dr. Sollecito, the collaboration is extremely valuable for him as a dentist. "To be able to have this kind of interaction with such accomplished physicians on a day-to-day basis is very enriching for me," he says. "We are all learning from one another." But the true value of the relationship, he says, goes beyond individuals to something much larger... "providing the best quality of care to a very vulnerable population."

"We are providing our students with an understanding of what it means to be a professional and compassionate health care provider," says Dr. Sollecito. "In doing so, we are passing on a vital Penn Dental Medicine tradition of interacting with and contributing as dentists to a health care team." **PDJ**



A Global Perspective

From student exchange to visiting scholars, Penn Dental Medicine continues to extend its international reach and expand its learning and teaching opportunities.

BY DEBBIE GOLDBERG



Penn Dental Medicine's

fourth-year student, Amanda Hom (D'09), spent three weeks at Chulalongkorn University Faculty of Dentistry in Bangkok this past January, getting a taste of hospital-based dentistry while soaking up the culture and learning about the practice of dentistry in a foreign country. Ms. Hom could have done her required fourth-year externship at Penn or any number of other American hospitals, but chose instead to take advantage of the option to complete the externship abroad. She's glad she did, describing her experience as "truly a once in a lifetime opportunity."

"The opportunity to participate in an international externship was one of the reasons that I chose Penn Dental; few other schools offered international externship programs," she recalls. "And the experience itself greatly exceeded all of my expectations. Not only is the Chulalongkorn University Faculty of Dentistry extremely impressive, but the Thai landscape, the food, the people, and the culture are all remarkable. I hope that others will benefit as much as I have from the program."

Indeed, Penn Dental Medicine recognizes the educational value on many levels of gaining a global perspective and is committed to maintaining a strong international presence through a number of key programs that offer its students the opportunity to go abroad and also gives foreign students, faculty, and practitioners the opportunity to study and do research at Penn Dental Medicine. Along with the international externship program, there is, among others, an international student exchange program for foreign dental students to visit Penn Dental Medicine; an international scholars program for foreign faculty and practitioners to train in the Department of Endodontics; and a visiting scholars program that offers the opportunity for foreign dentists to study in the Department of Periodontics for an academic year.



And, in a new development, Penn Dental Medicine, in its role as a World Health Organization (WHO) Oral Health Collaborating Center and in conjunction with the government of Botswana and the University of Botswana, recently agreed to carry out a number of initiatives to improve oral health in Botswana, a landlocked country of 1.6 million in southern Africa. Possibly as soon as this summer, Penn Dental Medicine students will serve as dental assistants and provide limited clinical care under supervision in Botswana.

Collectively, these internationally focused programs — and the School's already diverse student and faculty population — reinforce and enhance Penn Dental Medicine's reputation worldwide, build bridges to future international research and clinical collaborations with overseas colleagues, and help raise awareness of dental practices and health care systems in countries around the globe. The international reach of the School of Dental Medicine also is reflected in the 219 alumni who live and work in 47 different countries.

International Externships. This academic year, 30 dental students (37 last year) opted to do their hospital externship requirement outside the U.S., according to Dr. Martin

"The opportunity to participate in an international externship was one of the reasons that I chose Penn Dental; few other schools offered international externship programs. And the experience itself greatly exceeded all of my expectations. Not only is the Chulalongkorn University Faculty of Dentistry extremely impressive, but the Thai landscape, the food, the people, and the culture are all remarkable. I hope that others will benefit as much as I have from the program."

Amanda Hom (D'09)

Greenberg (GD'69), Associate Dean of Hospital Affairs at Penn Dental Medicine, who administers the externship program. The school currently has agreements with 31 hospitals throughout the world (see box, page 12), including institutions in Europe, Africa, South America, and Asia, and, he notes, "we expect to expand to other parts of the world."

While the most popular programs are in London, Paris, Hong Kong, Glasgow, and Israel, new programs have been added and interest is growing in developing countries, including Nigeria, China, and Vietnam. Among two recent agreements in this area are The Fourth Military Medical University College of Stomatology in Xi'an China and the

Pictured: This academic year nine international scholars from Korea and Japan are visiting within the Department of Periodontics. Dr. Mehmet Ilhan Uzel (top, left) is Director of International Programs in the Department of Periodontics. Typically six to 10 scholars participate each year; past participants have included practitioners from Saudi Arabia and South America.



International Sites

Penn Dental Medicine has exchange agreements with the following dental schools around the world.

Site	Country
Catholic University/Leuven Faculty of Medicine	Belgium
University of San Simon Cochamba School of Dentistry	Bolivia
The Fourth Military Medical University College of Stomatology	China
Shanghai Jiaotong University School of Stomatology	China
Sichuan University College of Stomatology	China
GKT Dental Institute Guy's Hospital University of London	England
Bart's and The London, Queen Mary School of Medicine and Dentistry	England
Fiji School of Medicine	Fiji
University of Paris V/Faculty of Dentistry	France
Witten-Herdecke University/Faculty of Dentistry	Germany
Ghana Medical School/Dental Department	Ghana
Francisco Marroquin Faculty of Dentistry	Guatemala
University of Hong Kong Faculty of Dentistry	Hong Kong
Ragas Dental College and Hospital	India
Saraswati Dental College	India
University of Dublin/Trinity College School of Dental Science	Ireland
Hebrew University/Hadassah School of Dental Medicine	Israel
Tel Aviv University/School of Dental Medicine	Israel
Tokyo Medical and Dental University	Japan
Seoul National University/College of Dentistry	Korea
Yonsei University College of Dentistry	Korea
University of Ibadan/School of Dentistry	Nigeria
University of Philippines/College of Dentistry	Philippines
University of Glasgow/Glasgow Dental Hospital & School	Scotland
Complutense University of Madrid/Faculty of Odontology	Spain
University of Geneva	Switzerland
Chung Shan Medical & Dental College/School of Dentistry	Taiwan
Kaohsiung Medical College/School of Dentistry	Taiwan
Chulalongkorn University/Faculty of Dentistry	Thailand
University of Health Sciences in Ho Chi Minh City – Faculty of Odonto-Stomatology	Vietnam
East Meets West Foundation Dental Program (not an exchange site; community service site only)	Vietnam

East Meets West Foundation Dental Program in Da Nang, Vietnam. The latter even allows students to gain hands-on clinical experience treating patients as well as assisting (while not yet a site for hospital externship credit, it may be in the future; currently, students receive community service credits

“Penn benefits greatly from the transfer of knowledge and collaboration with international colleagues and students.”

*Dr. Syngcuk Kim, Chair,
Department of Endodontics*

for this program). Going to less-developed countries often is an eye-opener for students. The foreign exposure not only gives them insights into dental education and practice in other parts of the world, but also offers new perspectives on health care systems and access in other countries.

“I believe these programs increase the interest of these students to appreciate the public health problems in the world,” Dr. Greenberg says, noting the international externships have been offered for more than 15 years. “When these students come back, they’ve often been changed by the experience.”

The externship, no matter where it’s done, is designed to provide insight into hospital-based dentistry – taking care of patients with medical problems – but doing this internationally is a broadening experience that Dr. Greenberg believes ultimately may make the students better able to provide care for a diverse range of patients.

Though the specific structure of the externship varies with the location, in general, students observe and assist in oral health care delivery through clinical rotations and seminars. For extern Amanda Hom, who went to Thailand with four other Penn Dental Medicine students, the experience offered varied learning opportunities in and out of the hospital – from helping with English lessons in a classroom and visiting a dental clinic in an orphanage to observing a diversity of complex surgeries and prosthodontic cases. Highlights for her included the surgery rotations in which they got to observe a mandibular resection with tibia bone grafting, a bilateral surgical split, and a LeFort I surgery. “We had learned about these types of surgeries in class, so seeing them performed in front of our eyes was an amazing experience,” she says. “The knowledge, precision, and kindness that each professor and student demonstrated was inspiring.”



International Student Exchange. International dental students also have an opportunity to visit the Penn Dental Medicine campus. As part of the international student exchange program, students in their third year of dental study can spend up to four weeks at the School, learning about U.S. dental education and practice. The international students — 37 of them each this year and last — attend classes, rotate through clinical specialties, observe procedures, and get an up-close view of dental training and clinical work in this country. Exchange students come from the same 31 schools around the world that host Penn Dental Medicine externship participants.

"They're learning about the differences that exist in treatment techniques and they're learning about American dentistry and its delivery system," says Dr. Robert Collins (D'71), Director of the Office of International Relations and Chief of the Division of Community Oral Health, who over-

"Visiting exchange students learn about the differences that exist in treatment techniques and about American dentistry and its delivery system. On a more global level, all these programs really contribute to transnational understanding, and the more we know about other people, the better off we are."

Dr. Robert Collins (D'71), Director of the Office of International Relations

sees the program. "On a more global level, all these programs really contribute to transnational understanding, and the more we know about other people, the better off we are."

International/Visiting Scholars. "As part of the overall University strategy, global education is very important," agrees Dr. Syngcuk Kim, Chair of the Department of Endodontics, who notes the benefits go both ways. "Penn benefits greatly from the transfer of knowledge and collaboration with international colleagues and students. They return to their home countries to use the skills they learned at the School, further advancing Penn Dental Medicine's reputation throughout the world."

The Department of Endodontics welcomes several international scholars each year. One is routinely a visiting faculty member, who is primarily involved in research while at the

School. In addition, one or two full-time practitioners spend up to a year at Penn Dental Medicine to enhance their clinical skills and specialty training in endodontics. Currently, two Korean dentists are in the program; in August, a Brazilian dentist will be coming on board. In the past there have been dentists from Germany, Portugal, Japan, Australia, and England as well.

"If we're involved in global education, we have to do these things," says Dr. Kim, who initiated the programs in 1992 when he came to Penn Dental Medicine. "These dentists come here for a year to learn modern endodontics and they return home and teach their colleagues."

Foreign dentists seeking further training in endodontics also can pursue a certificate of advanced continuing education through the Department's International Program. Selected practitioners — about 10 a year — spend a total of three months at Penn Dental Medicine in a two-year period

of time. While at the School, they observe and assist in microsurgical procedures and participate in literature reviews and seminars. They return home and complete the required clinical cases in their practices, and then return to Penn, to present those cases. "There are strict criteria," Dr. Kim says. "The program is extremely popular among those dentists who can't afford the two-year certificate program."

This academic year, nine international scholars — five from Korea and four from Japan — also are visiting within the Department of Periodontics. In recent years, the visiting dentists, typically six to 10 each year, also have come from Saudi Arabia and South America, among other places. The program provides "didactic education, expanding their knowledge in the field of periodontics and implant surgery," says Dr. Joseph Fiorellini, Chair of the Department of Periodontics. While the visiting scholars program within periodontics has been in existence for at least five years, Dr. Fiorellini says there has been a more extensive commitment to it in the last two years.

The international scholars tend to be highly motivated, taking time off from their own practices to come to Penn Dental Medicine, notes Dr. Mehmet Ilhan Uzel, Clinical





Associate Professor of Periodontics and Director of International Programs in the Department of Periodontics. "They come here to further their careers," Dr. Uzel says. "We give them the best available information and show them the best available techniques."

Dr. Jaeseok Kang, a South Korean dentist who is one of this year's scholars, already had expertise in prosthodontics, but wanted additional training in periodontics. At Penn Dental Medicine, Dr. Kang attends classes and lectures, studies the literature in the field, and observes clinical cases. He notes that many dentists in South Korea would like to have the opportunity to do a program such as this, but are limited by time and finances. "The Periodontic Department of Penn Dental is very famous all over the world," says Dr. Kang. "We are very lucky."

Another international scholar, Dr. Qing Liu, is currently at Penn Dental Medicine to train in the Department of Oral Medicine, under a new agreement recently established with the Fourth Military Medical University College of Stomatology in Xi-an, China. Oral Medicine is not a separate specialty in China at this time, and Dr. Liu was selected to train at Penn Dental Medicine for one and half years and return to Xi-an to start that specialty department. "I hope it will lead to others coming to train here from China," says Dr. Greenberg, who traveled to Xi-an to meet with hospital officials and establish the international agreement.



WHO/Botswana Program. Penn Dental Medicine's international reach will soon extend to Botswana, as it takes an active role in an existing Botswana-UPenn Partnership (government of Botswana, University of Botswana, and University of Pennsylvania) initiated by the School of Medicine's Infectious Diseases Division. Last fall, Dr. Collins and Dr. Andres Pinto (D'99, GD'01, GR'06), Assistant Professor of Oral Medicine-Clinician Educator, met with Ministry of Health officials and government dentists in Botswana and agreed to undertake several projects in the country.

Penn Dental Medicine will establish an exchange pro-

gram for its students to do externships in Botswana; invite practicing dentists in Botswana to come to Penn for up to eight weeks for intensive training in specialized fields; and send an oral medicine resident to work in Botswana for six months at a time, leading research efforts and helping to hone the diagnostic skills of Botswana clinicians. As a WHO Collaborating Center, Penn Dental Medicine also will work with top dental health officials in Botswana to implement preventive dental health strategies for school children.

"The WHO uses centers like ours to extend its reach and try to improve, in this case, the oral health in countries like Botswana, which has a high incidence of HIV," says Dr. Collins. And because there are no dental schools in Botswana, he adds, access to a top international dental program such as Penn's is an important commitment to the dental health of the citizens of that country.

Indeed, the commitment to international outreach and advanced learning with a global perspective is an integral part of the School's mission and that of the wider University as

Last fall, Dr. Andres Pinto (D'99, GD'01, GR'06), right, and Dr. Robert Collins met with Ministry of Health officials in Botswana and agreed to take on several projects in the country.

"The WHO uses centers like ours [Penn Dental Medicine is a WHO Collaborating Center] to extend its reach and try to improve the oral health in countries like Botswana, which has a high incidence of HIV."

Dr. Robert Collins (D'71), Director of the Office of International Relations

well. As stated in the Penn Compact, launched by Penn President Amy Gutmann at her 2004 inauguration, the University is committed to supporting developing communities through research and hands-on experience; encouraging students to engage internationally; promoting progress through international research programs; and bringing global leaders to campus. Penn Dental Medicine is doing just that across many borders and disciplines. **PDJ**



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On Campus

NEWS



Dr. Denis F. Kinane Named Dean of Penn Dental Medicine

Dr. Denis F. Kinane has been named the next Dean of Penn Dental Medicine, assuming this new post July 1. The announcement was made in February by University of Pennsylvania President Amy Gutmann and Interim Provost Vincent Price.

"Dr. Kinane brings to Penn a compelling and interdisciplinary vision for the future of dental science," said President Gutmann. "He has a deep understanding of the interdependence among the educational, research, and clinical missions of a dental school and an unyielding commitment to the highest quality teaching, excellence in patient care, and eminence in research."

Dr. Kinane is currently the Delta Dental Endowed Professor in the Department of Periodontics, Endodontics and Dental Hygiene and Associate Dean for Research and Enterprise at the University of

Louisville School of Dentistry and a Professor of Microbiology and Immunology in the University of Louisville School of Medicine. A native of Scotland, Kinane earned his bachelor of dental surgery in 1980 and his Ph.D. in microbiology in 1983, both from the University of Edinburgh. He is a member of the Faculties of Dental Surgery of the Royal College of Surgeons of Edinburgh and the Royal College of Physicians and Surgeons of Glasgow and holds specialist registration in the U.K. in periodontics and restorative dentistry.

"Dr. Kinane is a strong advocate of closer ties among dental medicine, medicine, and the basic sciences and of forging new linkages between dental schools, the community, and business sectors," said Interim Provost Price. "He will help us further advance Penn's strong commitment to access, to integrating knowledge across disciplines, and to local and global engagement."

A skilled recruiter of outstanding faculty, Dr. Kinane dramatically improved the Louisville dental school's research profile and professional standing, raising its national ranking in research funding from the National Institute of Dental and Craniofacial Research from 37th to 12th. He personally recruited eminent researchers and clinicians from schools around the world to Louisville and oversaw the creation of a new oral health and systemic disease research group.

As a researcher, his professional engagements bridge the divide between the basic and clinical sciences, and his research has improved dental medicine's understanding of the causes and development of gum diseases. Dr. Kinane has also examined the relationships between oral and systemic health and among diseases such as diabetes,

heart disease, and periodontal disease. As an active clinician, Dr. Kinane has taught periodontics for more than 20 years and has spent considerable time supervising students in teaching and research clinics and developing educational and computer-assisted learning programs. Earlier in his career, Dr. Kinane served as Chair of the Periodontal Department at the University of Glasgow, and he maintains a strong commitment to clinical dental education.

During his time at Louisville, Dr. Kinane has actively supported development and alumni-relations programs. He has also partnered with leaders in government and the business sector to increase commercialization and technology-transfer opportunities for dental researchers.

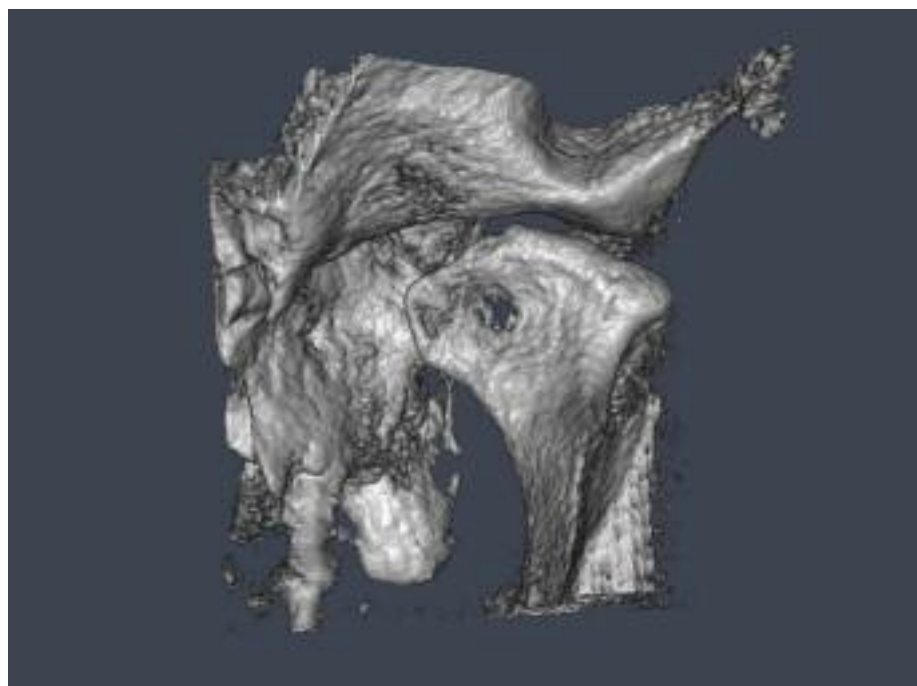
"Denis Kinane will build on the strong history and international reputation of Penn's School of Dental Medicine, guided in recent years by former Dean Marjorie Jeffcoat and Interim Dean Thomas Sollecito," said President Gutmann. "Vince Price and I express our deepest appreciation for the exemplary leadership of Tom Sollecito in recent stints as acting dean and now as Interim Dean," she said. "Tom guided the School through its reaccreditation process with enormous success, and he continues to lead the School with the highest degree of integrity and commitment."

3D Imaging System Adds High-Tech Digital Resources

Three-dimensional digital imaging is now part of Penn Dental Medicine's diagnostic radiographic resources. At the end of December, the School acquired a Kodak 9000C 3D CT Extraoral Imaging System with the capability of capturing traditional panoramic views, extraoral skeletal images, and 3D cone beam CT scans, all digitally and all at exceptionally high resolution. The new system is located within the School's Radiology Clinic adjacent to the Oral Diagnosis and Emergency Care Clinics.

"The ultra fine resolution and the ability to rotate 3D volumes 360°, enlarge the images, and view two-dimensional slices of them as well, all greatly improve our ability to see anatomy and even more important, pathology," says Dr. Arthur Kuperstein, Director of the Division of Radiology and Assistant Professor of Oral Medicine-Clinician Educator. "A 3D image can be sliced into 470, 0.076 millimeter layers, and we can scroll through each of those layers to see how anatomy and pathology changes to get precise dimensions and characteristics. This enhances our ability to provide a more accurate diagnosis, and therefore, even better care for our patients."

While the system's CT scan function is used only on select cases that warrant this type of imaging, it is supporting patient care across all disciplines, from oral medicine and oral surgery to complex cases in endodontics and orthodontics. "With the CT scan, we can identify pathology that may not be seen on a two-dimensional film," says Dr. Kuperstein, noting that it also has valuable applications within periodontics for implant cases. "We can determine the quality of bone available for an implant and then utilize a library of implants from different manufacturers, which can be imported into the 3D image to determine the best placement



The 3D images generated by the cone beam CAT scans (this one of the temporomandibular joint) can be rotated 360 degrees and sliced into 470, two-dimensional layers that can be viewed individually to see how anatomy and pathology changes.

and fit," he explains. "That image can then be used to mill a surgical template, which looks like a mouth guard with holes, for precisely guiding where the implant gets placed for the best stability, esthetics, and safety to surrounding anatomy." It also has advantages for the patient over a medical CAT scan, including less radiation exposure, lower costs, and a completely open construction.

"From an educational standpoint, it is an invaluable tool for teaching students about anatomy as well as pathology," says Dr. Kuperstein, who adds that it is also important in keeping students at the leading edge of digital radiography. "It is a way to bring together the basic and clinical sciences and really impresses students with the combination of sciences that go together to make a diagnosis." Within the curriculum, new introductions have already been made that incorporate CT scan imaging interpretation of both anatomy and pathology. Dr. Kuperstein has offered a selective on CT scan imaging interpretation, and it is being integrated into lectures and clinical instruction as well.

"The system is also being used in research," adds Dr. Kuperstein. "We are involved with studies on bone quality generated out of the Department of Periodontics, and I am doing work with osteoporosis and osteonecrosis."

While in place for less than five months, Dr. Kuperstein is already looking ahead to the future upgrades, including an increased field of view (the current field size is 50mm x 37mm) and the ability to digitally merge images together to provide a larger anatomic perspective of the patient.

"It is a great resource on so many levels for patient care, education, and research," says Dr. Kuperstein. "And it will only continue to expand, for their engineers are working all the time on refinements to the software and hardware."

Penn Dental Medicine Brings a Smile to Patients with Ectodermal Dysplasia

By Alandress Gardner

Maureen Gaunt has been making her living as a radio DJ for the last 12 years. As “Moe Rock,” she guides listeners through the energetic sounds of new and classic rock and roll on WQXA’s midday program. Throughout her career, she’s been looking forward to the day when she can be just as confident meeting fans of her show as when she’s behind the microphone. Her obstacle — a rare disorder called ectodermal dysplasia.

According to the National Foundation for Ectodermal Dysplasias (NFED), the genetic disorder has a broad range of over 150 inheritable disorders, affecting males and females of all races and ethnic groups. The disorder impacts the development of the ectoderm, which contributes to the formation of many parts of the body, including the skin, sweat glands, hair, teeth, and nails.



Maureen Gaunt received a full dental reconstruction.

Depending upon the particular genes affected, the condition can be relatively benign or very severe. While some aspects of ectodermal dysplasias, such as sparse hair and malformed nails, are more cosmetic, the varied spectrum of dental needs — from unpredictable patterns of tooth eruption and poorly-shaped and cavity-prone teeth to missing teeth — remain the most common thread among those affected by the disorder. This creates a meaningful opportunity for those who are able to help.

While undergoing a three-year complete reconstruction of her

teeth, Ms. Gaunt never expected it would impact the way she speaks and, in turn, her job. Temporary bridges placed in her mouth caused a lisp heard over the airwaves, leading to a demotion to the nighttime show. Letters poured in from thousands of listeners requesting her return to the usual time slot. Months later, after the completion of her treatment, she’s back doing midday radio and life is good. Although a rare condition, Ms. Gaunt’s experience with ectodermal dysplasia is similar to others affected by it.



Left to right: Dr. Jonathan Korostoff (D’85, GR’91, GD’92), Associate Professor of Periodontics-Clinician Educator, enlisted periodontal-prosthesis resident Dr. Joel Frankel (C’02, D’06, GD’10); Dr. Cyril Evian (GD’79, D’81), Professor of Periodontics; and Dr. Howard Fraiman (D’91, GD’93, GD’94), Clinical Assistant Professor of Periodontics, to work on the first restorative case referred by the National Foundation for Ectodermal Dysplasias (NFED).

Dr. Jonathan Korostoff (D’85, GR’91, GD’92), Associate Professor of Periodontics-Clinician Educator and Director of the Master of Science in Oral Biology Program at Penn Dental Medicine, became formally aware of ectodermal dysplasia while attending the International Team for Implantology World Symposium in 2007. Between speakers, Mary Fete, Director of Research at the NFED, gave a short presentation about the disorder, which included a video of patients describing how dramatically dental work has changed their lives. “I was so

taken by what she shared with us,” says Dr. Korostoff. “It touched the core of what we as dentists are supposed to be doing—enhancing people’s lives.” After speaking with Dr. Jeffrey Pearlman-Storch, Clinical Associate Professor of Periodontics, who was also in attendance, they agreed to contact Mrs. Fete about the idea of Penn Dental Medicine’s involvement with the Foundation.

The result of the initiative led to the School becoming the Northeast center for treatment, one of seven NFED Dental Treatment Centers nationwide. Under the agreement, dental implants are donated from Straumann USA, which provides solutions in implant dentistry and dental tissue regeneration, while faculty and residents in the periodontal-prosthesis program at the School perform the work. Patients incur the remaining cost of laboratory fees.

Under the direction of Dr. Cyril Evian (GD’79, D’81), Dr. Joel Frankel (C’02, D’06, GD’10), Dr. Howard Fraiman (D’91, GD’93, GD’94), and

Dr. Jacob Stern (GD'08) were responsible for Ms. Gaunt's care, as the School's first patient treated with financial support from NFED. Due to the complexity of her dental problems and their impact on her career, Ms. Gaunt's treatment required care from specialists in periodontics and periodontal prosthetics. Dentists with this type of training are routinely involved in implant placement, grafting, gum surgeries, and/or the restorative procedures that constitute this type of treatment. "The experience taught me a lot about doing full-mouth reconstructions, treating advanced cases, and patient management," says Dr. Frankel. Working along with residents, Dr. Korostoff feels the program provides them with the valuable learning opportunity of serving a unique group of patients and managing complicated dental procedures.

Founded in 1981 by Mary Kay Richter, Executive Director of the Foundation, NFED was born out of a need for more information about the challenges facing her son, who was diagnosed with ectodermal dysplasia by a dentist at a young age. She started the group, based out of Mascoutah, Ill., because there was no place for people to turn for help with the disorder. NFED is currently the only charity in the country that helps individuals affected by ectodermal dysplasias and serves families in over 70 countries around the world. "A lot of families may get a diagnosis of ectodermal dysplasia, but because of its rarity, the doctor or dentist may not be able to provide them much counsel," says Jodi Edgar Reinhardt, NFED's Director of Public Relations. "We understand where they're coming from and can provide accurate information and resources to those in need."

NFED began to build a network of Dental Treatment Centers in 1995

in partnership with dental schools around the country that have experience providing care for individuals with ectodermal dysplasia. The other locations include Saint Louis University Center for Advanced Dental Education, Southern Illinois University School of Dental Medicine, University of Alabama at Birmingham, University of Iowa, University of Missouri Kansas City, and University of North Carolina Chapel Hill.

Two months after her dental reconstruction was completed in January 2009, Ms. Gaunt appreciates many simple things others may take for granted. "Life since the dental implants has been fantastic," she says. "Today I took a driver's license picture with a great big smile that was strong and confident. I feel great."

For more information and assistance:

To provide students and faculty with more information about ectodermal dysplasias, Penn Dental Medicine hosted a Continuing Dental Education course *Multidisciplinary Approaches to Dental Treatment for Individuals Affected by Ectodermal Dysplasias*, on Saturday, April 25, 2009 at the School. Speakers included Drs. Korostoff and Joel Frankel and Drs. Timothy J. Fete, Albert D. Guckes, J. Timothy Wright, and Mary K. Richter with the NFED.

Penn Dental Medicine is also accepting referrals of patients affected by the disorder by contacting Dr. Jonathan Korostoff at jkorosto@dental.upenn.edu. And for more information on the National Foundation for Ectodermal Dysplasias (NFED) visit www.nfed.org.

Penn Dental Journal Digitized!

Penn Dental Journal readers can get a copy of the magazine online in an easy-to-download PDF format — simply visit www.dental.upenn.edu/journal and click on the issue you wish to view. At this site, alumni can also share their news for inclusion in the Class Notes section of the *Journal*.

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Student Events

Throughout the academic year, Penn Dental Medicine student organizations hosted a variety of special events, celebrating and exploring the many interests and cultural traditions of the School's diverse student body. This year, the Student Council helped to build awareness of the School's 28 active student groups by hosting a Student Fair in the fall, which launched a busy year of programs with increased participation in the groups and their activities. Some highlights from 2008-2009 include the following:

Fall Fiesta – Each year, the Hispanic Student Dental Association (HSDA) hosts Fall Fiesta to highlight Hispanic Heritage month, which runs from September 15 to October 15. The event is held to expose members of the Penn Dental Medicine community to Hispanic traditions. During the event, Carmen Garcia (D'11), HSDA vice-president; and HSDA co-presidents Lucas Mantilla (D'09) and Maria Velasco (D'10) demonstrated three Latin dances – the Merengue, Bachata, and Salsa. After the lesson, members of the organization helped guide attendees through the dance steps and handed out raffle tickets for a variety of prizes. A selection of Latin dishes was also served.

Diwali Night – On November 7, the Indian Students Dental Association (ISDA) held Diwali Night to celebrate the five-day Indian festival of lights. Attended by almost 200 students, faculty, alumni, and guests, the event included a performance by the female dance group Penn Naach, the student troupe Brown Sugar, and a fashion show. The ISDA honored two mem-

bers of Penn's Indian community for their contribution to students – Professor Aravind Joshi, Henry Salvatore Professor of Computer and Cognitive Science, and Dr. Mathew Thomas, Clinical Assistant Professor of Preventive and Restorative Sciences. The evening concluded with catered Indian food. Continuing to build upon its programs and outreach efforts, ISDA welcomes and encourages alumni participation in its activities. For more information on ISDA, visit www.upsdmisda.com or e-mail upsdm.isda@gmail.com.

Holiday Program – During the 2008 holiday season, Penn Dental Medicine students, faculty, and staff (joined by several Wharton School students as well) donated more than 100 gifts to area children as part of the annual holiday program operated by the Delaware Valley Children's Charity. The non-profit organization provides year-round assistance to abused, underprivileged, neglected, and homeless children and families in the Delaware Valley. The anonymous gift-giving program is sponsored at Penn Dental Medicine by the School's Community Health and Service Organization.

Black History Celebration – Penn Dental Medicine's Student National Dental Association hosted its 9th Annual Black History Celebration on February 26 in the Robert Schattner Center Henry Schein Atrium. With the theme "A Change in Dentistry," the event featured guest speaker, Dr. Ed Williams, a local oral surgeon specializing in implants and the inventor of the WIPSS jaw joint protector, used in contact sports. Dr. Bruce Shenker, Professor and Chair of Pathology, was presented with the Excellence in Education Award, and Dr. Yolanda Slaughter, Assistant Professor of Community Oral Health in the Department of Preventive and Restorative Sciences, received an award for Outstanding Faculty Support. The event also included a raffle for prizes from local vendors and a silent auction.



Katrina Case Study Looks at Disaster Response Model

While it is more than three and a half years since Hurricane Katrina devastated the Gulf Coast, there continue to be four Penn schools, including Penn Dental Medicine, helping to advise leaders in that region, while also building a disaster-response model for other universities. On April 30 and May 1, representatives from the University of Southern Mississippi, Louisiana State University, and others universities from the Gulf region and the Philadelphia area gathered on the Penn campus for a special conference – Universities and Disasters: Katrina Case Study – presented by faculty and students from Penn's schools of Social Policy & Practice (SP2), Nursing, Engineering and Applied Science, as well as Penn Dental Medicine.

The conference was an outgrowth of the Penn in the Gulf: SP2 Feldman Initiative, a program launched in the fall of 2007 by Richard Gelles, Dean of the School of Policy & Practice, to help address the social services and health care crisis that remains in Hancock County, Miss., an area hit hard by Katrina. The initiative expanded to a multidisciplinary program with 30 students and faculty from the four participating Penn schools traveling to Hancock County in January 2008 to assess problems and help develop possible solutions to meet their needs. The conference reported on those findings, and more broadly, on the role universities can play when a disaster strikes.

"Our focus when visiting Hancock County and afterward when making our recommendations was to look at local solutions to local problems with the university serving as the expert consultant," says Dr. Joan Gluch (GR'92), Director of Community Health and Acting Associate Dean for Academic Affairs, who was among those who visited Mississippi and presented at the conference. Also participating from



STUDENTS HEAD TO CAPITOL HILL

Penn Dental Medicine students took their voices to Capitol Hill, joining more than 300 students from across the country for National Dental Student Lobby Day (NDSLDD) on February 11- 12. Representing the School were third-year students Stephanie Golubic, Spencer Peoples, Melissa Pauli, Diane Tsai, and Prem Patel (left to right).

The two-day event, organized by the American Student Dental Association and the American Dental Education Association, begins with a day-long conference to gain expertise on the lobbying issues, practice the lobbying process, and master delivering an effective message. Students lobbied the staff and health aides from Senate and House offices on day two. This year's key lobbying issues included the Meth Mouth Prevention and Community Recovery Act and the National Health Service Corps Funding.

Penn Dental Medicine was Dr. Robert Collins (D'71), Division Chief of Community Oral Health, and three students – Amit Rajani (D'09), Gloria Hwang (D'09), and Sam Tam (D'09).

In addition to completing a dental care needs assessment for Hancock County, Penn Dental Medicine is helping to determine the approach most likely to assure the availability of continuous, affordable access to dental care for the areas residents and to identify short- and long-term solutions, including assisting them in working with the Health Resources and Services Administration to acquire a health professional shortage area designation.

"While immediate responses to critical needs are always welcome, the most important service a university can provide is an assessment that points the way to lasting solutions," says Dr. Collins. "Although we often find that access to oral health care was a problem prior to the occurrence of a disaster, the event itself can provide an opportunity to help create new and lasting solutions in which the community is a fully engaged partner."

In conjunction with the conference, the participants also contributed to a book, produced by Penn, which presents the Katrina/Hancock County

case study as a resource and model for other universities in responding to disasters. The chapters include Immediate Response: Food, Clothing, Shelter; Initial Response: Coping with Dislocation and Systems; Health Care Response; The Politics of Helping; Engaging the Local Authorities; and Next Time.

"Eventually, it is hoped that consideration will be given to developing a directory of universities with various expertise and capacity to respond to disasters," adds Dr. Collins. "While initial response should always be local and/or regional, in many cases, universities in the vicinity of the disaster may not have the expertise required by the situation or may be limited by the disaster. A directory of universities would be a valuable resource in quickly identifying the needed resources."

Penn Dental Medicine Students Host Oral Cancer Walk

On Saturday, April 18, the Penn Dental Medicine Oral Cancer Awareness Society held the first annual Philadelphia Oral Cancer Walk to promote awareness of the disease to members of the dental community and surrounding Philadelphia-area neighborhoods. The 3.1 mile walk around University City, which began and ended at the School, was followed by free oral cancer screenings, refreshments, and entertainment. A minimum donation of \$20 was required to register or sponsor a participant and survivors of oral cancer walked free of charge as honored guests. All proceeds from the event benefit the Oral Cancer Foundation.

According to the Oral Cancer Foundation, approximately 35,000 people in the United States were newly diagnosed with oral cancer in 2008, as the rate of occurrence increased for the third consecutive year. The problem is even greater worldwide, with new cases



annually exceeding 481,000. Causes of oral cancer include smoking, alcohol abuse, and exposure to HPV-16 (human papillomavirus). As aspiring dentists, members of the Oral Cancer Awareness Society are focused on increasing the public's knowledge of oral cancer with hope that cases will be detected and diagnosed early. The Oral Cancer Foundation reports that the rate of survival in cases of early detection is 80 to 90 percent.

When the cancer is discovered in later stages, the number significantly decreases to 45 percent. "We hope the event creates more awareness of this serious disease," says Ann Layvey (D'10), co-president of the School's Oral Cancer Awareness Society. "Everyone involved or observing should continue to share what they learned to help address this important health issue."

Sponsors of the Oral Cancer Walk included Metlife; Colgate; Health Benefit Solutions, LLC; Proctor and Gamble; The Oral Cancer Foundation; Penn Dental Medicine's Class of 2010, the School's Community Health and Service Organization (CHASO), and the Penn Dental Medicine Chapter of the American Student Dental Association (ASDA).

Do you have a child or
grandchild in high school?
*Is your child or grandchild
considering Penn?*

The Alumni Council on Admissions at the University of Pennsylvania is an advising resource for navigating the college search and application process.



215.898.6888 | aca@dev.upenn.edu | www.alumni.upenn.edu/aca
To receive ACA information via email or to update your contact information, please visit QuakerNet: www.alumniconnections.com/penn or email Alumni Records at record@ben.dev.upenn.edu

ARE YOU VISITING THE PENN CAMPUS? Attend an Admissions Information Session and take a Campus Tour—www.admissionsug.upenn.edu. Visit the ACA for a Legacy Advising Session: Monday through Friday at 12:15 PM and 3:15 PM in the Sweeten Alumni House, 3533 Locust Walk. Additional sessions are available during Alumni Weekend and Homecoming. **ACA ADVICE** is most helpful before submitting the application! What math class should I take junior year? What activities does Wharton look for in an applicant? How many proofreaders should review my essays? What is the advantage for a legacy to apply during Early Decision? How can I learn more about research opportunities at Penn?

VISIT OUR WEBSITE: www.alumni.upenn.edu/aca
Browse our FAQs and advice on numerous topics: academic preparation; early decision vs. regular decision; getting to know Penn; tips for the campus visit; a guide to Penn resources and much more!

LINKING LEGACIES: Legacies may sign up for a Penn student "email buddy" to get a current Penn perspective. Linking Legacies is open to high school juniors and seniors who are interested in learning more about Penn. www.alumni.upenn.edu/linkinglegacies

alumni COUNCIL
on admissions



Celebrate Penn Dental Medicine Pride!

RETURN TO PENN DENTAL MEDICINE for Alumni Weekend 2009, May 15-16, and reunions for classes ending in "4" and "9." Alumni Weekend is the time to connect with friends — old and new!

Whether you graduated five or 50 years ago, we hope that you will come celebrate your pride in Penn Dental Medicine. Some of this year's Alumni Weekend activities include:

FRIDAY

- **"Swashbuckling Dentists"**—Samuel Hughes, Senior Editor of *The Pennsylvania Gazette*, will speak about Penn Dental Medicine's legends, including Thomas Evans, Zane Grey, and Doc Holliday.

SATURDAY

- **Two Continuing Education Programs** — "What's New in Esthetic Dentistry" presented by Markus Blatz, D.M.D., Ph.D, Chairman, Department of Preventive and Restorative Sciences, Penn Dental Medicine; and the Dr. Samuel I. Shames and Hilda B. Shames Visiting Lecture, "Dentistry's 21st Century Challenges: Are You Ready?" presented by Dr. Myron Allukian, Jr., D.D.S., M.P.H.
- **Student-Led Dental School Tours**
- **Alumni Parade and Picnic**
- **Reunion Class Dinners** — Held at the Union League of Philadelphia, the evening will begin with a cocktail reception for all reunion alumni followed by individual class dinners. The 2009 Alumni Awards of Merit will be presented during the cocktail reception. For the complete schedule of events, to see who's coming, for hotel reservation and tourist information, or to register with your credit card through a secure online transaction, visit the Alumni Weekend web site www.dental.upenn.edu/alumni2009

We look forward to welcoming you back!

On Campus

PEOPLE

Drs. Sollecito, Greenberg Assume New Posts on AAOM Board

Effective May 1, **Dr. Thomas Sollecito (D'89, GD'91)**, Interim Dean and Professor of Oral Medicine-Clinician Educator, and **Dr. Martin Greenberg (GD'68)**, Acting Chair and Professor of Oral Medicine, assumed new leadership posts on the American Academy of Oral Medicine (AAOM) Board of Trustees. Dr. Sollecito was named President-Elect and Dr. Greenberg is now Vice President; both will serve



Dr. Thomas Sollecito
(D'89, GD'91)



Dr. Martin Greenberg
(GD'68)

one-year terms in their respective appointments.

Drs. Sollecito and Greenberg both held other positions on the Board over the past several years. Dr. Sollecito served as Vice President in 2008 – 2009, Secretary in 2007 – 2008, and Assistant Secretary from 2004 – 2007. Dr. Greenberg was Assistant Secretary in 2007 – 2008 and also served as the Oral Medicine

Section Editor of the Academy's *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology Editor* from 2001 – 2008.

"We are so very excited about the ascension of Dr. Sollecito and Dr. Greenberg," said a spokesperson from the AAOM. The AAOM is dedicated to promoting excellence in education, research, and patient care in the field of oral medicine. Its 700 members include an internationally recognized group of health care professionals

concerned with the oral health care of patients who have complex medical conditions, oral mucosal disorders, and/or chronic orofacial pain.

Dr. Yolanda Slaughter Named to Philadelphia's Board of Health

This fall, **Dr. Yolanda A. Slaughter**, Assistant Professor of Community Oral Health in Penn Dental Medicine's Department of Preventive and Restorative Sciences, was named to Philadelphia's Board of Health, one of seven appointees made by Mayor Michael Nutter. Dr. Slaughter is recognized as a national expert in geriatric oral health, particularly among minority populations, and has been a leader in the analysis of workforce issues for the American Dental Association.

The Board of Health is a departmental board of the city's Department of Public Health and is composed of the Health Commissioner, who serves as President, and seven mayoral appointees. The board is responsible for promulgating the health regulations of the Department of Public Health, which establish public health standards that control public health hazards and preserve and promote the health of the people of Philadelphia. Board members



Dr. Yolanda Slaughter

review scientific, technical, and administrative advances in the field of public health to ensure that the City's health regulations reflect best possible practices.

"This administration has appointed an activist Board of Health of highest qualification to review the health department's regulations, which affect so many facets

of the quality of daily life," said Philadelphia Health Commissioner Donald Schwarz. "It is also a Board that is representative of the diverse communities it serves, and one that can exercise leadership and guidance in helping to establish future direction and current priorities for the Health Department."

The other appointees include José Benitez (Executive Director of Prevention Point Philadelphia, a social services agency serving those at high-risk for HIV/AIDS and other illnesses), Dr. Marla Gold (Dean of the School of Public Health at Drexel University), Dr. Shannon Márquez (Associate Professor of Public Health and Director of the Master of Public Health Program at Temple University), Dr. A. Scott McNeal (Vice President and Chief Medical Officer of Delaware Valley Community Health, Inc.), Dr. Susan Schewel (Executive Director of the Women's Medical Fund of Philadelphia), and Dr. Robert G. Sharrar (a nationally-known expert in infectious disease epidemiology).

Dr. Marjorie Jeffcoat Receives Fauchard Medal

Dr. Marjorie Jeffcoat, Professor of Periodontics and former Dean at Penn Dental Medicine, has been recognized by The Pierre Fauchard Academy with the 2008 Fauchard Gold Medal, presented annually to a person who has made outstanding contributions to the progress and standing of the dental profession. The award was presented at the 72nd meeting of The Pierre Fauchard Academy, held during the American Dental Association Annual Session, October 16 –19 in San Antonio.

Dr. Jeffcoat is a member of the Institute of Medicine, has served as president of both the American and

International Associations for Dental Research, and was editor of the *Journal of the American Dental Association (JADA)*. Her current research centers on the rela-



Dr. Marjorie Jeffcoat

tionships between oral disease and systemic disease. Recipients of the Fauchard Gold Medal are nominated by the Committee of Past Recipients, which includes all living past recipients of the medal. The Pierre Fauchard Academy is an honorary dental service organization; established in 1936, it awards medals and other honors to persons who have distinguished themselves by their contributions to dentistry. The Pierre Fauchard Academy is currently comprised of 7,000 fellows from 119 Sections in 65 countries.

Dr. Jonathan Korostoff Named Director of MS in Oral Biology Program

Dr. Jonathan Korostoff, Associate Professor of Periodontics-Clinician Educator, has been appointed Director of Penn Dental Medicine's Master



Dr. Jonathan Korostoff (D'85, GR'91, GD'92)

of Science in Oral Biology program. The appointment was effective February 5. Dr. Korostoff succeeds Dr. Edward Lally, Professor of Pathology, who stepped down from the role after six years of dedicated service.

Dr. Korostoff earned his DMD and postdoctoral certificate in periodontics at Penn Dental Medicine in 1985 and 1992, respectively, and his PhD in immunology from Penn's School of Medicine in 1991. He has been a member of the Penn Dental Medicine faculty since 1991.

The three-year Master of Science in Oral Biology is designed especially for individuals interested in an academic career and is open to those postdoc-

toral students enrolled in one of the School's clinical specialty training programs. Applications to the Master of Science in Oral Biology are independent of applications to any of the clinical specialty programs and acceptance in one does not imply acceptance in the other. The degree is awarded after successful completion of both didactic coursework (15 hours in oral biology and basic sciences related to the individual's area of interest) and research, which culminates in the writing and defense of a thesis.

Dr. Elliot Hersh Receives PDA Recognition Award

Dr. Elliot Hersh, Professor of Oral Surgery/Pharmacology, was selected by the Pennsylvania Dental Association (PDA) Annual Awards Committee to receive the 2009 Pennsylvania Dental Association Recognition Award. The award is given annually to a dentist who has contributed original research or whose significant achievements and high standards have been of such character as to have materially aided and advanced the science and art of dentistry; or whose public life and activities have been of such a nature as to reflect great credit upon the health profession. Dr. Hersh was presented with this award at the 141st PDA Annual Session, held April 23-26 in Hershey, Pa.

"I'm honored to receive this prestigious award," says Dr. Hersh. "The most important thing I do is the impact I have on dental students and professionals through educational programs that I perform. My experience of being on the front lines in conducting evidence-based research in the areas of pain control and local anesthesia makes those educational experiences even better."

In addition to his role as an educator at the School, Dr. Hersh has also been giving continuing dental education courses in rural areas of Pennsylvania for the PDA over the last four or five years, providing a lifelong learning experience to dentists, dental hygienists, and office staff across the state. Dr. Hersh says he takes the time to enjoy visiting different towns and

makes the most of his trips, even registering to run a five mile race the day after a presentation in St. Marys, Pa.

Since arriving at Penn Dental Medicine in 1988, Dr. Hersh has been recognized with the School's Basic Science Teaching Award 15 times and is also a past recipient of the University



Dr. Elliot Hersh

of Pennsylvania's Lindback Award for Distinguished Teaching. The Course Director of the second-year Pharmacology course, Dr. Hersh is an internationally known clinical researcher, having

been principal investigator in over 30 pivotal clinical research trials in the areas of acute pain and local anesthesia.

Students Named to Matthew Cryer Honor Society

Students from the Class of 2010 have been recognized for their academic achievement as inductees into the Matthew Cryer Honor Society. Each year, this honor is conferred on the 10 highest-ranked students at the end of their second year (as determined by general order of merit). Induction into the Society is the highest scholastic award presented by the School.

Established in 1912, the Cryer Society honors the legacy of Dr. Matthew Cryer, a Professor of Oral Surgery, who achieved great eminence as a teacher, researcher, and clinician. The Society's main function is to acknowledge and honor academic achievements and act as a body of reference and resource to new students entering the School. This year's inductees include **Daniel M. Cummins, Stephanie R. Golubic, Eveline Hamdani, Joy N. Liou, Banafsheh S. Mehrbakhsh, Eric J. Novison, Julee C. Plastow, Melinda M. Tsai, Pin-Jung Wu, and Seung-Won Yoon.**

Student Receives First Place Award for Research

Third-year Penn Dental Medicine student **Heather Desh (D'10)** was recognized for her achievements in research with a first place award at the 2008 Greater New York Dental Meeting, held in New York, N.Y. on November 30, 2008. Twenty other dental students presented at the meeting from at least four other schools.

Her research project, titled *Ddit4L expression increases in response to murine masseter unloading*, focused on the genetic markers underlying the muscle-related causes of temporomandibular disorders (TMD). Ms. Desh worked on the project with Dr. Elisabeth Barton, Assistant Professor of Anatomy and Cell Biology. "This research emerged from Heather questioning how stress

expression during muscle unloading, which is significant due to its role in preventing cell growth and survival. As a result, if increased in human masseter muscle, this gene may prevent muscle remodeling following a period of heavy stress due to clenching or bruxism. "The results of this study have pointed us in a new research direction to understand the interaction between load and stress on masticatory muscles," says Dr. Barton. "Ultimately, we are now better informed to identify molecular factors underlying TMD."

Ms. Desh also presented her research findings at the Valley Forge Dental Conference on March 6 in King of Prussia, Pa., where she received another first place honor. Five dental students representing Penn Dental Medicine and Temple

University's Maurice H. Kornberg School of Dentistry presented research at the Conference. "I am thankful for the opportunities I've had to share my research with a great number of dentists and specialists," says Ms. Desh, who first presented this project in October 2008 at the ADA Conference in

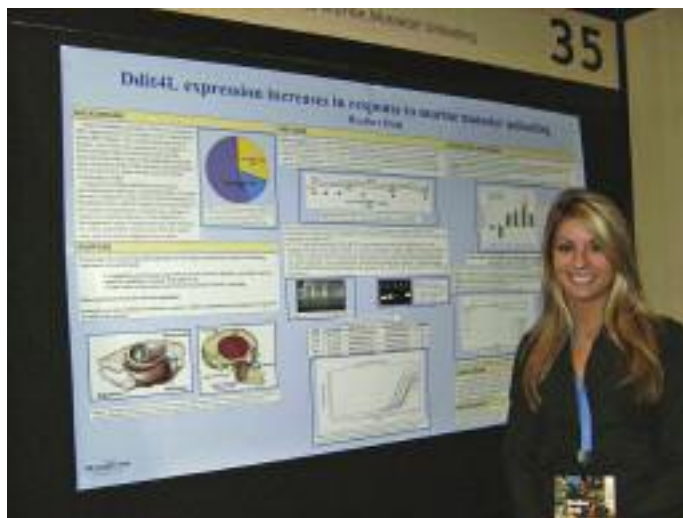
San Antonio after winning first place in the Penn Dental Medicine Oral Health Fair last spring. "It's been an honor to receive this recognition and to represent the School on a professional level."

Currently, Ms. Desh is doing additional tests (duplicating some of the real-time polymerase chain reaction (PCR) runs of her study) to further substantiate her data. She hopes to submit a paper on her findings for publication within the next year.

Student Takes Top Honors for Educational Study

Fourth-year Penn Dental Medicine student **Matilda Dhima (D'09)** was awarded first place in the American College of Prosthodontics Table Clinic Poster Presentation Competition, held during the organization's 38th Annual Session, October 29 – November 1 in Nashville, Tenn. Titled *A Survey: Current Trends in Specialty Training and Mentoring of Dental Students in Prosthodontics at Harvard and University of Pennsylvania Schools of Dental Medicine*, her study investigates the factors that influence predoctoral dental students in choosing prosthodontics and other specialties. The project also examines the role that mentorship has on students' beliefs about and their decision to pursue various specialties. As a recent Predoctoral Student Alliance Member of the American College of Prosthodontics, Ms. Dhima began exploring these issues while in the process of making decisions about her own future career in dentistry.

Working under the mentorship of Dr. Vicki Petropoulos, Associate Professor of Restorative Dentistry–Clinician Educator at Penn Dental Medicine, Ms. Dhima served as one of the principal investigators on this collaborative effort with the Harvard School of Dental Medicine. While Penn Dental Medicine and Harvard School of Dental Medicine are the first two universities to conduct the survey, several other schools including the University of Florida, Columbia University, and New York University have taken an interest in the study and are also expected to perform the research. "The project has been very well received and continues to spark the attention of many educators, private practitioners, and residents," says Ms. Dhima. "This is a great opportunity to increase awareness of the challenges that dental students face when choosing a career path in dentistry."



Heather Desh (D'10)

genes expression in masticatory muscle would be affected by load," says Dr. Barton. "Testing her hypothesis required incredible focus and attention to detail because the assays she performed were very tricky."

While working on the project, they discovered that one gene in particular, *Ddit4L*, exhibited increased



Matilda Dhima (D'09)



Dr. Charles N. Bertolami, President of ADEA; Ms. Velasco (D'10); and Dr. Joan Gluch, Acting Associate Dean for Academic Affairs.

The project comes as recent studies predict that 30 million people will have tooth loss by the year 2020, generating a growing need for prosthodontists. "It's a wonderful specialty because restoration or reconstruction of the mouth can be so rewarding," says Dr. Petropoulos. "You really feel like you're doing a great service for people."

Ms. Dhima would like to increase the number of schools participating, especially those on the West Coast, to make this a nationwide project. "It has truly been a wonderful experience to be actively involved in scientific research and to help advance dental education," says Ms. Dhima. "I hope dental schools will use the findings of this study to better understand the trends, challenges, and aspirations facing their current and future students."

On December 5, Ms. Dhima also presented her study at the Greater New York Academy of Prosthodontists, becoming the first dental student in the Academy's history to present a project at the annual meeting. She plans to share findings with the larger dental community this year, which are expected to be published in the *Journal of Prosthodontics*.

Student Named Preventive Dentistry Scholar

Maria Velasco (D'10), a third-year student at Penn Dental Medicine, was among 12 students nationwide named a 2009 ADEA/Johnson & Johnson Healthcare Products Division of McNEIL-PPC, Inc. Preventive Dentistry Scholar. The scholarship recognizes academic excellence and strong personal activities and achievements in preventive dentistry. The award was presented at the 86th ADEA Annual Session, held in Phoenix March 14 - 18.

As president of the Hispanic Student Dental Association at Penn Dental Medicine, Ms. Velasco has been leading a community outreach program called "Puentes de Salud." "Our goal is to ameliorate health and dental care inequalities in South Philadelphia by serving as a 'health bridge' that brings needed health care services to the underserved Hispanic/Latino community," she says. "We provide the community with dental screenings and are in the process of writing a grant to offer dental services."

Additionally, Ms. Velasco and a group of Hispanic dental students attend oral health fairs in Philadelphia directed toward the Hispanic population. She strongly believes that the practice of preventive dentistry coupled

with the investigation of preventive methods in dentistry makes more well-rounded practitioners, and thus, one of her goals has been to promote research among students as President of the School's Vernon Brightman Research Society. She has been involved in a research project with Dr. Sunday Akintoye, Assistant Professor of Oral Medicine, comparing the differentiation capacity into neurons of adult BMSCs derived from maxilla, mandible, and iliac crest bone. The research suggests that maxillary and mandibular BMSCs could become neurons and potentially be used in the treatment of stroke, paresthesias, Parkinson's, and Alzheimer's disease.

Editor's Note

In the Fall 2008 edition of the Penn Dental Journal, the coverage of the 2008 awards and inductees of the Penn Dental Medicine chapter of Omicron Kappa Upsilon National Dental Honor Society (OKU) omitted recognition of award recipient Marc Hayashi (D'09). Mr. Hayashi was the 2008 recipient of OKU's William S. Kramer Award of Excellence, presented at the 2008 Senior Farewell, May 13, 2008. The award is given annually by OKU to a third-year student and selection criteria include scholarship, character, and potential promise for advancement of the profession of dentistry and service to humanity.

Scholarly Activity

Awards & Achievements

Dr. Joseph R. Greenberg (D'72, GD'76), Clinical Professor of Periodontics

- Delivered two invited lectures (on esthetic/cosmetic dentistry and metal supported vs. non-metal supported restorative systems) at the Harvard School of Dental Medicine.

Dr. Martin Greenberg (GD'68), Acting Chair and Professor of Oral Medicine

- Named Vice President of the American Academy of Oral Medicine (AAOM) Board of Trustees, May 2009.

Dr. Elliot V. Hersh, Professor of Oral Surgery/Pharmacology

- Recipient of the 2009 Pennsylvania Dental Association Recognition Award, April 2009

Dr. Jeffrey Hochstein, Clinical Associate, Department of Preventive and Restorative Sciences

- Participated in a mission with Remote Area Medical to provide free dental care, Tennessee, November 2008.

Dr. Marjorie Jeffcoat, Professor of Periodontics

- Recipient of 2008 Fauchard Gold Medal, presented annually to a person who has made outstanding contributions to the progress and standing of the dental profession, presented by The Pierre Fauchard Academy, October 2008.

Dr. Andres Pinto (D'99, GD'01, GR'07, M'10), Assistant Professor of Oral Medicine-Clinician Educator

- Awarded training grant in bio-statistical methods from the Oral Health Task Force on Design and Analysis in Oral Health Research, March 2009 (two-year award).

Dr. Bruce Shenker, Chair and Professor of Pathology

- Recipient of the Excellence in Teaching Award by the Penn Dental Medicine Student National Dental Association, February 2009.

Dr. Yolanda Slaughter, Assistant Professor of Community Oral Health

- Named to Philadelphia's Board of Health, October 2008.

Dr. Thomas Sollecito (D'89, GD'91), Interim Dean and Professor of Oral Medicine-Clinician Educator

- Named President-Elect of the American Academy of Oral Medicine (AAOM) Board of Trustees, May 2009.

Dr. Eric Stoopler (D'99, GD'02), Assistant Professor of Oral Medicine-Clinician Educator

- Named to the Editorial Board, *Journal of Implant and Advanced Clinical Dentistry*, 2008.

Selected Publications

A selection of recently published work by Penn Dental Medicine faculty, who are indicated in bold.

Akintoye SO, Giavis P, Stefanik D, **Levin L**, **Mante FK**. Comparative osteogenesis of maxilla and iliac crest human bone marrow stromal cells attached to oxidized titanium: a pilot study. *Clinical Oral Implants Research*. 2008 November;19(11):197-201.

Atlas AM, Ribeiro AL, **Laudenbach J**, **Saleh N**, **Blatz MB**, **Kim S**, **Korostoff JM**. Longitudinal analysis on stability of implants in the posterior maxilla. *Journal of Dental Research*. 2009; 88 (Spec issue A):2875.

Atlas AM, Xu X, **Mante FK**, Raman P, **Saleh N**, Diwan R, **Yuan J**, **Blatz MB**. Volumetric shrinkage and conversion of composites at different polymerization times. *Journal of Dental Research*. 2009; 88 (Spec issue A):2440.

Atlas AM, Raman P, Dworak M, **Mante FK**, **Blatz MB**. Effect of delayed light polymerization of a dual-cure composite base on microleakage of Class 2 posterior composite open sandwich restorations. *Quintessence International*. 2009; 40. In press.

Balasubramaniam R, Goradia A, Turner LN, **Stoopler ET**, **Alawi F**, Frank DM, **Greenberg MS**. Burkitt lymphoma of the oral cavity: An atypical presentation. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontics*. 2009 February; 107(2):240-5.

Balasubramaniam R, **Greenberg MS**, **Pinto A**. Jaw pain in an adolescent boy: Trigeminal Neuralgia. *Journal of the American Dental Association*. 2008 August; 139(8):1075-9.

Balasubramaniam R, **Sollecito TP**, **Stoopler ET**. Oral health care considerations in muscular dystrophies. *Special Care in Dentistry*. 2008; 28: 243 - 253.

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DiRienzo, JM, Cao L, Volgina A, Bandelac G, **Korostoff J**. Functional and structural characterization of chimeras of a bacterial genotoxin and human type I DNase. *FEMS Microbiology Letters*. 2009; 291: 222-231.

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Fogg CN, Americo JL, Earl PL, Resch W, Aldaz-Carroll L, **Eisenberg RJ**, **Cohen GH**, Moss B. Disparity between in vitro neutralization of vaccinia virus by antibody to the A27 protein and protection of mice to intranasal challenge. *Journal of Virology*. 2008; 82(16):8022-8029.

Foo CH, Lou H, Whitbeck JC, Ponce de Leon M, Atanasiu D, **Eisenberg RJ**, et al. Vaccinia virus L1 binds to cell surfaces and blocks virus entry independently of glycosaminoglycans. *Journal of Virology*. In press, 2009.

Gamborena I, **Blatz MB**. Immediate protocols and guided surgery for esthetic success with full-mouth implant rehabilitations. *Quintessence of Dental Technology*. In press, 2009.

Gamborena I, **Blatz MB**. Current clinical and technical protocols for single-tooth immediate implant procedures. *Quintessence of Dental Technology*. 2008; 31:49-60.

Gelman A, **Bergler M**, **Saleh N**, **Atlas AM**, **Blatz MB**. Comparative bond strength of pressed veneering ceramic to zirconia. *Journal of Dental Research*. 2009; 88 (Spec issue A):1869.

Goodchild JH, Donaldson M. An evidence-based dentistry challenge: treating patients on warfarin (Coumadin). *Dental Implantology Update*. 2009; 20(1):1-8.

Holst S, Geiselhöringer H, Nkenke E, **Blatz MB**, Holst A. *Implant retained restorative solutions in patients with hypodontia.* Quintessence International. 2008; 39(10):797-802.

Iqbal MK, Kurtz E, Kohli M. *Incidence and factors related to flare-ups in a graduate endodontic program.* International Endodontic Journal. 2009;42(2):99-104.

Iqbal, MK. *Einzelzahnimplantat oder Zahnerhaltung durch nicht-chirurgische Endodontie – Was ist die richtige Lösung?* Aesthetische Zahnmedizin. 2008. 3(11):45-59. (German)

Komine F, **Blatz MB**, Kobayashi K, Saito A, Koizumi H, Matsumura H. *The influence of different priming agents on the bond strength of an indirect composite veneering material to zirconium-dioxide ceramic.* Quintessence International. 2009; accepted for publication.

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Park JH, Duarte S, **Blatz MB**, Sadan A. *Influence of contamination and cleaning on bond strength to modified zirconia.* Arthur R. Frechette Research Award Finalist. Journal of Dental Research. 2009; 88 (Spec issue A):121.

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Pinto A, Rethman MP, Jagenbruch JF. *History of treated periodontitis may signal a greater likelihood of implant problems. A critical summary.* Journal of the American Dental Association. In press.

Shelton, JW and **Smithgall, FJ**. *So you want to be a dentist? An investigative report.* Pennsylvania Dental Journal. 2008 November/December; 25 – 28.

Stanton DC, Chou JC, **Sollecito TP**, **Stoopler ET**, Pringle G, **Carrasco LR**. *Recurrent lower lip swelling in a 62-year-old African American female.* Journal of Oral and Maxillofacial Surgery. 2008; 66: 2585 – 2591.

Tamburrino R, **Secchi A**, **Katz S**, **Pinto A**. *Assessment of the three-dimensional condylar and dental positional relationships in CR-to-MICs shifts.* Roth Williams International Society of Orthodontics Journal. In press.

Terry DA, Trajtenberg CP, **Blatz MB**. *A Review of Dental Tissue Microstructure, Biomodification, and Adhesion.* Functional Esthetics and Restorative Dentistry. 2008; 2:2-9.

Turner LN, Balasubramaniam R, **Hersh EV**, **Stoopler ET**. *Drug therapy in Alzheimer Disease: an update for the oral health care provider.* Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology & Endodontics. 2008; 106: 467 – 476.

Wadenya R, **Pinto A**, **Lindemeyer R**. *Oral factitious injury in a child diagnosed with Kabuki syndrome.* Journal Compendium of Continuing Education in Dentistry. In press.

Wadenya R, Yego C, **Blatz MB**, **Mante FK**. *Comparative Bond Strength and Microleakage of a New Self-Etch Sealant.* Quintessence International. 2009; accepted for publication.

Whitbeck JC, Foo CH, Ponce de Leon M, **Eisenberg RJ**, **Cohen GH**. *Vaccinia virus exhibits cell-type-dependent entry characteristics.* Journal of Virology. In press, 2009.

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Grants

The following grants were awarded from 9/1/2008 – 4/1/2009.

Department of Anatomy & Cell Biology

Evaluation of Therapies to Enhance Muscle Function in Dysferlinopathies
3/1/2009 – 2/28/2010
Funding Source: Jain Foundation Research Grant
Principal Investigator: Dr. Elisabeth Barton, Assistant Professor of Anatomy & Cell Biology

George M. O'Brien Urology Research Center (P50): Bladder Wall Remodeling in LUTS
9/1/2008 – 7/31/2013
Funding Source: National Institutes of Health - NIDDK
Project 2: Bladder wall remodeling following alteration of urothelial structure
Principal Investigator: Dr. Pamela S. Howard, Research Associate Professor of Anatomy & Cell Biology
Project 4: Obstruction alters the dystrophin-glycoprotein complex in bladder smooth muscle
Principal Investigator: Dr. Edward J. Macarak, Chair and Professor of Anatomy & Cell Biology

Department of Biochemistry

Membrane Fusion in Retinal Rod Outer Segments

4/1/2009 – 3/31/2013
Funding Source: National Institutes of Health
Principal Investigator: Dr. Kathleen Boesze-Battaglia, Associate Professor of Biochemistry

Department of Microbiology

Mechanism of Poxvirus Entry into Cells

3/1/2009 – 6/30/2009
Funding Source: University of Maryland
Principal Investigator: Dr. Gary H. Cohen, Chair and Professor of Microbiology

Study of Actinobacillus Actinomycetemcomitans Virulence
8/1/2009 – 7/31/2013
Funding Source: National Institutes of Health
Principal Investigator: Dr. Joseph M. DiRienzo, Professor of Microbiology

Department of Pathology

Becton Dickinson LSR II Flow Cytometer

4/1/2009 – 3/31/2010
Funding Source: National Institutes of Health
Principal Investigator: Dr. Bruce J. Shenker, Chair and Professor of Pathology

G Protein Coupled Receptor Signaling in Mast Cells
9/20/2008 – 6/1/2012
Funding Source: National Institutes of Health
Principal Investigator: Dr. Hydar Ali, Associate Professor of Pathology

Novel Strategies for Asthma Therapy by Regulating Mast Cell Signaling by MyD88
4/1/2009 – 3/31/2011
Funding Source: National Institutes of Health
Principal Investigator: Dr. Hydar Ali, Associate Professor of Pathology

Department of Preventive and Restorative Sciences

Clinical Comparison of Postoperative Sensitivity of a Self-Adhesive Composite Cement (Icem) and Resin Modified Glass Ionomer (Fuji Plus)
8/19/2008 – 4/30/2010
Funding Source: Heraeus Kulzer GmbH
Principal Investigator: Dr. Markus Blatz, Chair and Professor of Restorative Dentistry-Clinician Educator

Department of Oral Medicine

HIV Health Services in the City of Philadelphia

3/1/2009 – 6/30/2009
Funding Source: Aids Activities Coordinating Office
Principal Investigator: Dr. Andres A. Pinto, Assistant Professor of Oral Medicine-Clinician Educator

Alumni

NEWS

ALUMNI PROFILE:

Debbie Haas Oro (D'79) and Bob Oro (D'79)

By Amy Biemiller

It just wasn't enough that Penn Dental Medicine alumni Deb (D'79) and Bob Oro (D'79) were caring for the oral health of their community in Oro Valley, Ariz. They have made it their jobs to spearhead efforts to make their town the healthiest in America.

"Health is our wealth," says Deb. "With the extended life expectancy increasing into our '90s, the potential catastrophic implications of an unhealthy boomer retirement generation is more than our economy can stand."

Putting words into deeds, the Oros founded the Healthiest Town in America program three years ago after learning about the Activate Tucson program, which is part of a larger YMCA USA initiative — America on the Move — promoting healthy communities and educational emphasis on the epidemics of obesity and diabetes. They officially launched the program in January of this year, with a community event that featured 50 sponsors and over 1,300 attendees.

"We spearheaded the initiative because health and healthcare need to be recognized as one of the pillars of our community of excellence," says Bob. "But this effort really starts with the understanding that health starts with the individual. It's a personal responsibility and a responsibility to our community."

The undertaking of the Oros included bringing members of the town council, chambers of commerce, hospitals, schools and community citizens together in one committee to develop the program. While the ultimate goal of the program is overall better health, the committee knew that in order to gain

participation, they needed a starting point. They came up with three specific activities that program members needed to agree to undertake in order to be official program participants: wear a pedometer, track their daily activity and agree not to gain weight for a year. "It's a program based on small changes, one person at a time. It's not the end-all, but just the beginning," says Bob. To support participants' commitments, community officials plan to have monthly events to encourage healthy lifestyles. Participants in the program also have access to health and wellness resources via the Healthiest Town in America website.

Oro Valley's program has inspired neighboring communities to investigate how they can get their residents to 'shape up' and join the Healthiest Town initiative. "After the kick-off event, we were asked to speak at five different communities/organizations and provide information for two newsletters," says Deb.

Community activism is nothing new for the Oros, who base their practice on community service. "Our business model is based on a four-day



office work week, with Friday being our community service day every week," says Bob. Their involvement on the community level includes business initiatives, public education, community planning and community outreach. "We've been involved with many significant community service projects since moving here in 1996. It's service that is fun, and that has been good for us, our family and our community."

As active members of their community, the Oros have found that their

Debbie (Haas) Oro (D'79)

General practice residency – Lutheran Hospital Medical center – 1979 to 1980
In practice, Westchester County, NY – 1981 to 1996
Fellowship of Academy of General Dentistry – Detroit, MI – 1985
Esthetic dentistry lecturer – 1994 to 2000
In practice – Oro Valley, AZ – 1996 to present

Bob Oro (D'79)

General practice residency – Brookdale Hospital Medical Center – 1979 to 1981
In practice, Westchester County, NY – 1981 to 1996
Fellowship of Academy of General Dentistry – Detroit, MI – 1985
Master of the Academy of General Dentistry – Chicago, IL – 1988
Instructor, Brookdale Hospital Medical Center – 1984 to 1986
National lecturer – 1994 to 2000
In practice – Oro Valley, AZ – 1996 to present

Alumni Gatherings

YANKEE DENTAL CONGRESS ALUMNI RECEPTION

Penn Dental Medicine held a reception on January 30 for alumni attending the Yankee Dental Congress in Boston. The event was hosted by Interim Dean Thomas Sollecito and reconnected visiting alumni with Penn Dental Medicine and each other.

1
Arthur Eddy (D'77),
Bernard Kurek (WEV'04,
D'73, WMP'03), and James
Cinamon (D'78).



2
Penn Dental Medicine
Director of Admissions
Corky Cacas and David
Daniels (Co5, D'o8).



3
Robert Cheron (D'o3) and
Ann Colter Hosch (D'o4)
with their son, Robert
Baynes Cheron.



4
Kevin O'Connor (D'76),
Deborah Tung (D'94),
Sheryl Gomes (D'94),
and Tony Saito (D'95).



friends and neighbors appreciate seeing them interact in the community outside of their practice. As energetic community activists, the Oros get to meet other community members and demonstrate a concern for their health before they ever interact with them professionally. This concern for the holistic health of their community is rooted in their education at Penn.

"Our educational experience, particularly with the stress on the integral part dentistry plays within medicine and overall health, was innovative in the '70s and '80s," says Deb. "We've been building on that knowledge within our practice and within our community."

"We feel that dentistry is the hub of healthcare. Our practice combines the best of two Penn dentists," says Bob,

who partners with his wife in their dental practice. "I look at the patients' overall health and oral health, while Deb is the technique and esthetics part of the practice. That means we work next to each other on every patient." Either partnering in business or in efforts to help their community become healthier, Deb and Bob admit their motives are somewhat selfish. "When we decided to move here 15 years ago, we looked across the country to find the best place to raise our family, grow our practice, and grow older in a healthy manner," says Bob. "We feel this is the best place in the world to live, so we make it a practice to bring the best of ourselves to our community."

Penn Dental Medicine Web Site A Career Opportunities Resource

Looking for an associate?
Interested in finding a practice in a new region of the country?
Whether you have a position to fill or are looking for a new one, the Penn Dental Medicine web site is one resource to investigate. At the "Career Opportunities" page within the "Alumni" section of the School's web site, you can review postings as well as submit one of your own. Submissions are listed for six months after receipt at www.dental.upenn.edu/alumni/jobs.html.

Reunion Class Committee Members

This year's Alumni Weekend 2009, May 15-16, is the reunion year for those classes ending in "4" and "9." Penn Dental Medicine's Office of Development and Alumni Affairs extends its appreciation to those alumni who served as committee members for their class reunions, helping to reconnect classmates to each other and the School.

Reunion class dinners will be held Saturday, May 16, from 6:30-10 p.m. at the Union League of Philadelphia. The evening will begin with a cocktail reception for all reunion alumni followed by individual class dinners. The 2009 Alumni Awards of Merit will be presented during the cocktail reception; this year's recipients are: Dr. Gerald Barrack (D'59), Dr. Adi A. Garfunkel, (GD'74), Dr. Marshall J. Goldin (C'60, D'64), Dr. Heber T. Graver (D'56, GD' 72), and Dr. Adam Stabholz (GD'78).

The reunion class committee members include:

- 1934** Clement C. Alpert, Chair
- 1949** Harold V. Garrity, Jr., Chair
- 1954** John Allan Bier, D.D.S.
- 1959** Richard Dakin, Co-chair; Harry Hoffman, Co-chair; Noah Chivian; Harold DeHaven, Jr.; Jay I. Glat; and Charles W. Jensen, Jr.
- 1964** Marshall J. Goldin, Co-chair; Morton A. Langsfeld III, Co-chair; and Vincent Parisi, Co-chair
- 1974** Ronald J. Gutman, Co-chair; and Howard C. Hopenwasser, Co-chair
- 1979** Robert E. Weiner, Co-chair; Saul Pressner; David Tecosky; and Jonathan D. Volinsky, Co-chair

- 1984** Keith L. Dunoff, Chair; Joseph Azizi; Mark Desrosiers; and Larry P. Markel
- 1989** Thomas P. Sollecito and Michael J. Feldman
- 1994** Frank R. Besson, Jr., Chair
- 2004** Ann Colter Hosch and Erika Johnston

(List current as of March 27; if you would like to serve on a Committee for your class, please contact Mary McCarron at 215-898-8951.)

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Gifts that Fund the Future

Plan a gift today that can provide for the future of Penn Dental Medicine by including a charitable bequest in your long-term plans. Create your legacy gift by naming Penn Dental Medicine as a beneficiary of your will, living trust, through a retirement plan or life insurance policy.

Benefits of an estate gift allow for alumni and friends to give in ways that may not be possible during your lifetime and because of the estate tax charitable deduction, a bequest can reduce the tax burden of your estate. More importantly, such a gift offers the personal satisfaction of knowing your commitment will fund the future of Penn Dental Medicine.

Planning does make the difference!

Alumni

CLASS NOTES

1950's

Alan (Duke) Deegan (D'59) writes "I spent 13 years on active duty with the US Army, completing an internship and also receiving my training in oral and maxillofacial surgery during that time. I moved from active duty to the Reserves for an additional 22 years, retiring as Deputy Assistant Surgeon General in 1994. After 31 years of oral surgery practice, I was named to the founding board of directors of a dental liability insurance company, serving on that board for 15 years and also as risk manager for the company, which became the largest insurer of oral and maxillofacial surgeons in the country. I was fully retired in 2004. This year is our 50th wedding anniversary, and Cathie and I and now fully enjoy retirement and our 10 grandchildren."

1960's

Robert Dennison (D'68) received the 2008 Clinician of the Year Award from the Michigan Primary Care Association at its Annual Conference, which was held October 19-21, 2008 in Traverse City, Mich. Dr. Dennison moved to Michigan 40 years ago to work for the Saginaw County Health Department. In 2003, he was recruited to be Dental Director for Health Delivery, Inc., a provider of community health services based in Saginaw, Mich. Dr. Dennison also holds a Master's in Public Health in addition to his DMD. In a recent publication, Dr. Dennison said, "Public health dentistry is my first love. In this area, considering the needs and limited resources, it's always a challenge, but an exciting one, to see how we can help those who come to us." Dr. Dennison is an active promoter of oral health issues within the state, serving on the Michigan Oral Health Coalition Board of Directors. In his role as a Health Delivery's Dental Director, he prides himself on working to train the next generation of public health dentists. As a result of this passion, Health Delivery Inc. has a close working

relationship with the University of Michigan Dental School. "When students arrive, they have no idea how crucial the needs are here," said Dr. Dennison. "The level of untreated dental disease is a real eye-opener for them. But they're determined and realize it all boils down to one thing — being there to help the truly needy."

1970's

Claire Moray Leininger (DH'74) will be celebrating her 33rd anniversary this spring with her husband Eric Leininger (C'75) who is senior vice president of global insights for McDonald's Corporation. He was profiled in the December issue of *The Advertiser Magazine*.

Arthur Segal (C'73, D'76, GD'78) is pleased to announce the publication of three books: *A Handbook for Jewish Spiritual Renewal: A Path of Transformation for the Modern Jew*; *Spiritual Wisdom of the Talmudic Sages: A Collection of Spiritual Essays*; and *An Ethical and Spiritual Compendium to the Torah and Talmud*. He recently spoke to Hospice Care of the Low Country on "Judaic Issues of Illness, Dying and Death"; to the Hilton Head Artists Guild on "The Artistry, Life, and Politics of Arthur Szyk"; and to the Ethical Society of Hilton Head on "Talmudic and Hebraic Considerations Concerning Capital Punishment." He teaches an online class, "The Torah, Tanach, and Talmud from a Spiritual and Ethical View", which is based at Hebrew College, Newton Centre, Mass.; it may be taken free by contacting him at RabbiASegal@aol.com. He retired from practice in New Jersey in 1996 and became an ordained rabbi in February 2007. He, his wife Ellen, and their parrot, Avivit Keter, live on Hilton Head Island, SC., where Arthur was active during the recent election as a member of www.RabbisForObama.com. He is chair of the Hilton Head chapter of the South Carolina Penn Alumni Club and was founder and is now president emeritus of the South Carolina club.

1980's

Kenneth Klausner (D'87) was recently inducted as a Fellow of the International College of Dentists at its Annual Convocation this past October in San Antonio. Dr. Klausner is an oral and maxillofacial surgeon practicing in Manhattan, N.Y. since 1991. He is also an Attending Surgeon in the Department of Otolaryngology/Head and Neck Surgery at St. Luke's - Roosevelt Hospital Center in New York. E-mail address: kkdmd@yahoo.com

Two Penn Dental Medicine alums — **Dr. Abby Brodie (D'83)** and **Dr. Heidi Crow (D'85)** — are among those educators selected for the ADEA Leadership Institute Class of 2010. The ADEA Leadership Institute, which began in 2000, is a yearlong

program to develop the nation's most promising dental educators to become leaders in dental and higher education. The four-phase Institute includes sessions on leadership and management theory, team building, communications, managing change, public policy, educational policy, legal issues, research, and budgeting and financial management. Dr. Brodie is currently the Assistant Dean for Curriculum and Educational Affairs at Nova Southeastern University College of Dental Medicine and Associate Professor in the Department of Cariology and Restorative Dentistry. Dr. Crow is Associate Professor in the Department of Oral Diagnostic Sciences at the University of Buffalo School of Dental Medicine, Assistant Dean for Postdoctoral General Dentistry Programs, and Director of the TMD and Orofacial Pain Program.



Robert A. Levine (GD'84)

was selected to serve on the Worldwide Committee to Develop the Future of Dental Implantology. Dr. Levine was one of 99 representatives from around the world—and one of only 17 Americans—invited to participate in the International Team of Implantology's (ITI) Consensus Conference on Implant Dentistry. Every five years since 1993, the ITI gathers together the "best and brightest" from around the world to create consensus in treatment protocol for the rapidly evolving

field of implant dentistry. The three-day conference was held in Stuttgart, Germany in August 2008. The final review papers and consensus statements will be published next year in a special supplement of the *International Journal of Oral & Maxillofacial Implants*, the publication of the Academy of Osseointegration. Dr. Levine, an authority on dental implants, is currently a Clinical Associate Professor in Postdoctoral Periodontics, Perio-Prosthesis and Implantology at the Penn Dental Medicine. He is the founder and director of the Pennsylvania Center for Dental Implants & Periodontics, and served as Chairman of the division of Periodontics at the Albert Einstein Medical Center from 1984 to 2004. A Diplomate of the American Board of Periodontology, Dr. Levine is also a Fellow of the ITI and a Fellow of the College of Physicians of Philadelphia (one of only 42 dentists who have been honored with this distinction, out of a total membership of 1,500 Fellows from the medical community). A native of Ivyland, Pa., he is married to Bucks County pediatric dentist, Dr. Sheryl Radin, and has two children.

1990's

Lawrence B. Caplin (D'90), founder and CEO of the Oral Health Impact Project (OHIP), which provides in-school, comprehensive dental care to children at the greatest risk for dental disease, was the subject of a *Philadelphia Inquirer* profile in November 2008. OHIP provides services for students in 140 elementary, middle, and high schools in the School District of Philadelphia. In May 2008, Dr. Caplin and OHIP were formally recognized with a Resolution by the Philadelphia City Council for their commitment to the children of the School District of Philadelphia in providing high quality dental services and oral health education.

Dr. Caplin is also founder & CEO of Dentrust Dental International, a corporation that provides dental care for governmental institutions throughout the United States, including correctional facilities, juvenile centers, foster care systems, and the United States Military. Today, Dentrust is one of the largest providers of institutional dental care in the nation.

2000's

Rohini Kataria Bhatia (D'03) sends greetings to her classmates. She writes "Avnish Bhatia (my husband) and I are celebrating the birth of our second son and recently relocated to Wynnewood, Pa. from New York City. E-mail address: Rohini.Kataria@gmail.com"

Share Your News

We want to hear from you. Share your news on personal and professional accomplishments with your fellow Penn Dental Medicine alumni through the Class Notes section of the *Penn Dental Journal*. We have made it easy for you to make a submission — simply go to www.dental.upenn.edu/alumni/ where you can quickly send us your information — we welcome photos as well. Or, you can send your submissions to:

Mary McCarron

Robert Schattner Center
University of Pennsylvania School of Dental Medicine
Office of Development and Alumni Relations
240 South 40th Street
Philadelphia, PA 19104-6030
215-898-8951 (p)
mrmccarr@ben.dev.upenn.edu



David DiGiallorenzo (GD'95) a periodontist and dental implantologist with a unique, holistic dental spa approach, has been named a Top Dentist 2008 in the annual Best of the Main Line issue published by *Main Line Today* magazine. One of nine dentists recognized, his professional peers statewide nominated Dr. DiGiallorenzo for the honor. His practice serves patients regionally, nationally, and internationally.

Dr. DiGiallorenzo's practice focuses on the management of advanced cases, diagnosis and prevention of gum disease, and orthopedic and plastic reconstruction of the oral cavity utilizing dental implants and state of the art reconstructive techniques in a unique spa environment. His practice is one of only a few worldwide to offer the two approaches.

According to Dr. DiGiallorenzo, "by incorporating a holistic approach to dentistry, we are able to view our patients' whole health. Oral health is a window into one's overall health and uniquely linked to systemic conditions." On being named a Top Dentist, he noted, "A great practitioner is one who never stops being a student — even as a teacher."

MAKING HISTORY ... One Gift at a Time

One of the nonfinancial goals of *Making History: The Campaign for Penn* is to grow the number of alumni who support Penn's commitment to educational excellence through their annual gifts. Please help sustain Penn Dental Medicine's leadership in the profession by making your gift before June 30, the end of Penn's fiscal year. As the cost of excellence continues to rise, so does the need for increased support of the Dental Annual Giving Fund. Whatever the level of your support, your gift will make a difference to our students. For your convenience, gifts to the Dental Annual Giving Fund can be made in several ways:

- **CALL** the Office of Development and Alumni Relations at 215-898-8951 and make a gift with a credit card.
- **VISIT** www.upenn.edu/gifts for a secure online credit card transaction.
- **SEND** your check, made payable to the "Trustees of the University of Pennsylvania," to: Office of Development and Alumni Relations, Robert Schattner Center, University of Pennsylvania, School of Dental Medicine, 240 South 40th Street, Philadelphia, PA 19104-6030.
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FOR MORE INFORMATION, PLEASE
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In Memoriam

Dorothy Myers Moore (DH'32)

Overland Park, KS, September 7, 2008

Finvola T. Shober (DH'34)

Virginia Beach, VA, July 12, 2008

Arthur K. Liston (C'33, D'35)

Youngtown, AZ, August 25, 2008

Eric Offenbacher (D'35)

Seattle, WA, January 5, 2009

Lewis Bolnick (D'39)

Franklin Lakes, NJ, September 12, 2008

Irving M. Richter (D'39)

Davie, FL, October 25, 2008

Ivan F. Barnes (D'41)

Peabody, MA, June 23, 2008

Herbert H. Feld (D'42)

Fort Myers, FL, October 12, 2008

Bernard Weiss (D'42)

Stone Harbor, NJ, August 10, 2008
Survived by his son, Richard C. Weiss (C'60, D'66) and his grandson Eric C. Weiss (C'87, D'90)

H. David Prenskey (C'38, D'43)

Palm Beach, FL, September 16, 2008

Regina A. Kravacs (DH'44)

Trumbull, CT, July 18, 2008

Carole Freed Gyax (DH'45)

Reinbeck, IA, April 27, 2008

Cornelia K. Schilke (DH'45)

Mount Kisco, NY, January 26, 2009

Abram J. Stillman (D'45)

Brooklyn, NY, June 4, 2008

Joseph M. Gould (C'45, D'46)

Manhasset, NY, February 29, 2008

Charles E. Hillyer (D'46)

Sarasota, FL, September 11, 2008

James S. Skinner (D'47, GD'48)

Ardmore, PA, October 28, 2008

Marian Weaver Bell (DH'48)

Spring Hill, FL, September 12, 2008

Douglas L. Roberts (D'50)

Scottsdale, AZ, July 17, 2008

Dr. Robert Warren Baker, Sr. (D'52)

It is with great respect and deep appreciation that Penn Dental Medicine remembers Dr. Robert Warren Baker, Sr. (D'52) for his passion and strong commitment to dentistry and the School. Dr. Baker, who died October 20, 2008 at the age of 82, served on the Board of Overseers at Penn Dental Medicine for 25 years. He was also an Associate Trustee at the University and a member of the Alumni Executive Committee.

Born in Ithaca, N.Y. on August 1, 1926, Dr. Baker received a Bachelor of Science Degree from Cornell University after serving in World War II. He then earned his dental degree from Penn Dental Medicine, and went on to receive an Orthodontic Certificate and a Master of Science degree at the University of Illinois at Chicago in 1954. Dr. Baker then returned to Ithaca to practice with Dr. Edward King; they later opened several orthodontic offices in upstate New York, providing care to many within the state.

In teaching, he was a consummate educator; passing along to others the knowledge he had gained in orthodontics and business and helping colleges and universities to plan, grow, and flourish. He strongly believed that everyone should give back to the institutions that had helped them to succeed. Among Dr. Baker's many contributions included establishing the first orthodontic practice in Curacao, Venezuela. He was also a faculty member of the Edgewise Orthodontic Training Course in Europe for many years. Dr. Baker was also asked to join the faculty at Eastman Dental Center in Rochester N.Y., where he taught Orthodontics for nearly 50 years, on a part-time basis, ultimately attaining the position of Senior Clinical Professor, which he held until his death.

Dr. Baker received the Eastman Dental Center Faculty Teaching Award and the Alumni Award of Merit from the University of Pennsylvania School of Dental Medicine. He also received the 2007 Director's Excellence Award and the 2007 Orthodontics and Dentofacial Orthopedics Division Award from the University of Rochester Eastman Dental Center.

"Those of us who had the privilege of serving with Dr. Baker on the Board of Overseers knew him as a dedicated friend, generous patron, and enthusiastic advocate for dental education," says Dr. William Cheung (D'81, GD'82), Chairman of the Board of Overseers. "We remember him with fondness and gratitude."

Dr. Baker is survived by Natalie Peterson, his wife of 54 years, three children — Dr. Robert W. Baker, Jr. (D'85), Susan Baker Sheridan, and Nancy Baker — and beloved grandchildren and nephew.



Edward U. Austin (GD'51)

San Antonio, TX, October 7, 2008

Marilyn Abel Smith (DH'51)

Pineville, NC, September 20, 2008

Melvin W. Stern (D'51)

Chestnut Hill, MA, January 9, 2009

Isaac S. Pike, III (C'51, D'52)

Berwyn, PA, January 27, 2009
Survived by his son, Isaac S. Pike IV (D'96)

Robert A. Batten (D'53)

Pitman, NJ, October 21, 2008

Richard D. Grossman (D'53)

Branford, CT, January 24, 2008

Philip P. Haines (C'49, D'53)

West Chester, PA, August 31, 2008

Anthony A. Vito (D'53, GD'66)

Ambler, PA, November 10, 2008
Survived by his son, James Anthony Vito (D'84, GD'87, GD'90)

John M. Hollis (D'54)

Merrick, NY, July 26, 2008.

Lawrence W. Loveland (D'55)

Warren Center, PA, November 24, 2008

Milton Stern (GD'55)

Buffalo, NY, November 21, 2007

Anthony Lewandowski (GD'56)

Lafayette Hill, PA, August 25, 2008

Donald G. Tomlin (D'56, GD'59)

East Orleans, MA,

Paul B. Kenyon, Jr. (D'57)

North Conway, NH, October 9, 2008

Alvin H. Saltzbarth (D'57)

Colts Neck, NJ, March 28, 2008

Edward G. Bednar (C'54, D'58)

Woodbridge, CT, March 10, 2009

Frank J. Faustini (D'58)

Little Ferry, NJ, January 23, 2009

Jules Klein (D'60)

Lake Mary, FL, December 27, 2008

Emmy Busch Holliday (DH'61)

Savannah, GA, August 14, 2008

Samuel B. Stevenson, Jr. (D'61)

Darien, CT, September 3, 2008

Richard T. Brock (GD'62)

Charleston, SC, December 14, 2008

Francis P. Diplacido (D'62, GD'66)

Fort Myers, FL, March 14, 2008

Jon S. Loomar (C'59, D'62)

Watchung, NJ, August 28, 2008

Harry A. Snyder (D'62)

Palmerton, PA, July 20, 2008

Richard E. Friedman (D'64)

Lake Worth, FL, April 2, 2006

Phillip L. Coulston (D'71)

Clayton, CA, August 24, 2008

In Memoriam

Kay S. Schattner

Penn Dental Medicine notes with sadness the passing of Kay S. Schattner, wife and partner of Robert I. Schattner (D'48), a member of the School's Board of Overseers. Mrs. Schattner, a resident of Bethesda, Md., passed away on March 9, 2009.

Kay Schattner had a successful career as a fashion model, radio commentator, newspaper columnist, and public relations official before she married Dr. Schattner in 1969 and joined him as a public relations advisor for his company. Along with practicing dentistry, Dr. Schattner became a well-known entrepreneur and businessman, having invented Chloraseptic sore-throat medicine and Sporicidin, a widely used disinfectant for medical instruments.



Kay Schattner (right) with Dr. Robert Schattner (D'48) and Penn President Amy Gutmann in November 2004.

on the Schattners' long friendship with the School, Interim Dean Thomas P. Sollecito says, "Kay and Bob have had an extraordinary impact on Penn Dental—as friends, advocates, and supporters. They share our commitment to building on Penn's proud history to strengthen the School's teaching, research, and clinical excellence. Kay will be missed, and we extend our condolences to Dr. Schattner."

Kay and Bob Schattner were active in a number of charitable causes, and the School of Dental Medicine has greatly benefited from their philanthropic support. A leadership gift from the Schattners funded the construction of the Robert I. Schattner Center, and a portrait of Dr. and Mrs. Schattner hangs in the Center's Henry Schein Atrium. Reflecting

Dr. Anthony A. Vito (D'53 GD'66) and Dr. Manuel M. Album

Penn Dental Medicine remembers two long-time members of the faculty for their devotion to teaching and the dental profession. — Dr. Anthony A. Vito (D'53 GD'66) and Dr. Manuel M. Album.

Dr. Vito, Professor Emeritus at Penn Dental Medicine, passed away from heart failure on November 1; he was 83 years old. Dr. Vito's career at Penn spanned over four decades, joining the School's faculty in 1962. Dr. Vito had been a Professor in the Department of Periodontics and had also served as Associate Dean for Clinical Affairs from 1970 to 1980. He retired in 1996, but continued working at the University. Born in Philadelphia, Dr. Vito attended St. Joseph's College and then earned his dental degree and postdoctoral certificate at Penn Dental Medicine. He also served in World War II in the Army Infantry in Europe and was awarded a Purple Heart for his service.

Dr. Vito is survived by his wife, Alexandra MacDonald; daughters, Cynthia Manning, Mary Hicks, and Linda Reilly; sons, James (D'84, GD'87, GD'90), Robert, and Kenneth; and grandchildren, Jackie and Tommie Manning; Jonathan, Christopher, and Alex Hicks; Philip, Stephanie, Kayla, and Colleen Reilly; Julia Vito; Allee and Matthew Vito; and his sister, Theresa Filips. Memorial contributions may be made to the Department of Periodontics at Penn Dental Medicine, 240 S. 40th St., Philadelphia, PA 19104.

Dr. Manuel M. Album, a leader in the field of pediatric dentistry and a member of the School's faculty for more than 40 years, died November 29 at the age of 89. Having served as a Clinical Professor in Pediatric Dentistry from 1955 through 1999, Dr. Album was credited as a pioneer in the care of children and the handicapped. He also served as chief of dental services at Children's Hospital of Philadelphia (CHOP) and established the first postgraduate dental program in the U.S. to train students to care for the disabled. In addition to his appointments at Penn and CHOP, he maintained a practice in Jenkintown. Dr. Album was a founding member of the Academy for Oral Rehabilitation of Handicapped Persons, and was a founder and former president of the American Society of Dentistry for Children. Dr. Album earned his bachelor's and dental degrees from Temple. He served in the Air Force during World War II. Dr. Album is survived by his wife, Shirley; son, Michael; daughter, Fredlyn Heller; and four grandchildren.

ALUMNI CONNECTIONS

Find a former classmate and sign up for an email forwarding service through QuakerNet, the Penn Alumni Online Community. Register free at www.alumniconnections.com/penn and search the Online Directory — a great resource for personal and professional networking and an easy way to keep up-to-date on fellow alumni. You can also sign up for a permanent email forwarding service, which will forward messages received at your permanent Penn address to the email address of your choice.

Update your alumni record via QuakerNet, the Penn Alumni Online Community. Register free at www.alumniconnections.com/penn. Or, contact Mary McCarron at 215-898-8951 or mrmccarr@ben.dev.upenn.edu.

Make a gift through a secure online credit card transaction at www.upenn.edu/gifts.

Find information on ways to support Penn Dental Medicine at www.dental.upenn.edu/alumni. Or, contact the Office of Development and Alumni Relations at 215-898-8951.

Request a transcript through the School's Office of Student Affairs at 215-898-8940 if you graduated in 2000 or earlier. If you graduated in 2001 or later, visit the Office of the University Registrar's web site at www.upenn.edu/registrar/transcripts/transcripts.html or call 215-898-6636.

Order a replacement diploma through the Office of the Secretary's web site at www.upenn.edu/secretary/diplomas/#replace.

Post or search dental career opportunities at www.dental.upenn.edu/alumni/jobs.html.

Purchase Penn Dental Medicine apparel at www.clubcolors.com/penn dental medicine. You can choose from a great selection of merchandise with the official Penn Dental Medicine logo including polos, sweatshirts, outerwear, bags and luggage, and gift items.

Obtain a Penn Alumni Card at www.upenn.edu/penn card/card/obtain_alumni.html. The Penn Alumni Card offers a myriad of benefits, including access to the Penn Libraries (borrowing privileges or access to online resources not included) and discounts on admission to the Morris Arboretum, Class of 1923 Ice Rink, and University of Pennsylvania Museum. The card, valid for 10 years, costs \$20.

Learn about the Alumni Council on Admissions, which guides children and grandchildren of Penn alumni through every step of the Penn undergraduate admissions process, at www.alumni.upenn.edu/aca.

Discover the variety of resources and benefits available to Penn alumni, including discounts on services, at www.alumni.upenn.edu/services.

Please address any correspondence to:
Office of Development and Alumni Relations
Robert Schattner Center
University of Pennsylvania
School of Dental Medicine
240 South 40th Street
Philadelphia, PA 19104-6030

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The new Penn Dental Medicine CAD/CAM Ceramic Center is bringing together exceptional expertise in clinical dentistry, scientific investigation, and dental laboratory techniques, see story, page 2.

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Calendar

OF EVENTS

Alumni Programs & Events

May 12, 2009

Senior Farewell 2009

Ritz Carlton
Philadelphia, Pa.
6:30 p.m.

May 15-16, 2009

Alumni Weekend 2009

Reunions for classes ending
in "4" and "9"
Philadelphia, Pa.
www.dental.upenn.edu/AW2009

May 18, 2009

Class of 2009 Commencement

Speaker: Donald F. Schwarz, M.D., M.P.H.
M.B.A., Deputy Mayor of Health and
Opportunity and Health Commissioner,
City of Philadelphia
Irvine Auditorium
Philadelphia, Pa.
1:00 p.m.

*For more information on these and other
alumni events, please visit
www.dental.upenn.edu/alumni/events.html
or call 215-898-8951.*

Continuing Dental Education

*Penn Dental Medicine alumni receive a 25%
discount on course tuition.*

May 16, 2009

Alumni Weekend 2009

"What's New in Esthetic Dentistry"

Presented by Markus B. Blatz, DMD, PhD
9:00 a.m. – 10:00 a.m.
1 lecture credit hour

Dr. Samuel I. Shames and Hilda B. Shames Visiting Lecture Dentistry's 21st Century Challenges: Are You Ready?

Presented by Myron Allukian, Jr., DDS, MPH
10:00 a.m. – 11:30 a.m.
1.5 lecture credit hours

Both courses will be held at:
The Robert Schattner Center
Penn Dental Medicine
240 South 40th Street
Philadelphia, Pa.

*Penn Dental Medicine will begin a
new season of continuing education
courses in Fall 2009.*

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and other Penn Dental Medicine
continuing education programs,
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