

Penn Dental Journal

FOR THE UNIVERSITY OF PENNSYLVANIA SCHOOL OF DENTAL MEDICINE COMMUNITY/ SPRING 2007



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ON THE COVER: Markus B. Blatz, DMD, PhD, joined Penn Dental Medicine as Chair of the Department of Preventive and Restorative Sciences in September 2006, overseeing the Division of Restorative Dentistry and the Divisions of Pediatric Dentistry and Community Oral Health.

A Message

FROM THE DEAN

We are pleased to present this latest edition of the *Penn Dental Journal*. Keeping the Penn Dental Medicine community connected to each other and the School is vital to our mission, and we hope the news and stories shared through the *Journal* not only inform, but also encourage further communication among you — our alumni, faculty, students, staff, and friends.

We have much to share in this issue. Among the feature stories is an introduction to our new Chair of the Department of Preventive and Restorative Sciences, Dr. Markus Blatz (see story, page 2). An internationally-known prosthodontist and biomaterials researcher, Dr. Blatz joined Penn Dental Medicine in September, and we are thrilled to welcome him to the Penn family. He is leading the Department with great enthusiasm and a vision and expertise that will put the School at the forefront of restorative dentistry with the latest techniques and technologies.

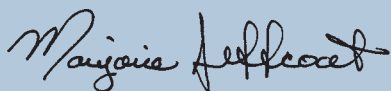
Also profiled is a long-standing and highly respected member of the faculty, Pathology Chair and Associate Dean for Research Dr. Bruce Shenker (see story, page 6). A widely-recognized researcher in the area of immunoregulation, he and his lab are making great strides in deepening our understanding of the role of the immune system in periodontal disease. And, as

Associate Dean for Research, his leadership and collaborative spirit continue to strengthen the School's research activities, facilitating a greater exchange across disciplines through new programs and initiatives.

Giving back is an important part of any dentist's life, and we have many alumni who are sharing their skills through public service. In our third feature story, read about alumna Dr. Amanda Gaynor Ashley (D'99, GED'99), who chose to pursue public health dentistry through the Indian Health Service, and is now directing a clinic for native Alaskans in rural Barrow, Alaska. Also hear from the School's National Health Service Corps scholars, reaching their educational goals through service to the underserved (see story, page 10).

In other news, we are also pleased to report that the School's capital improvements continue to move forward with the construction of the new periodontic clinic scheduled to begin in June (see story, page 16). Our next big building project will be a complete, state-of-the-art renovation of the Main Clinic. Fundraising for this crucial project is underway, and I look forward to sharing more with you about it and our plans for a new Endodontic Clinic, which will follow the Main Clinic project and complete our major clinic renovations.

Finally, I want to take this opportunity to congratulate the Class of 2007. As you move forward to the next step in professional dentistry, may the connections you have as part of the Penn Dental Medicine family continue to remain strong — we promise to keep in touch through the *Journal*.



MARJORIE K. JEFFCOAT, DMD
Morton Amsterdam Dean



A man with short brown hair and glasses, wearing a light blue dress shirt and a patterned tie, is sitting at a desk. He is smiling and looking towards the camera. His arms are resting on the desk. In the background, there is a large window with multiple panes, letting in bright light. The overall scene is professional and bright.

Feature

The Art and Science of Restorative Dentistry

New Chair, Dr. Markus B. Blatz, Bringing the Latest Techniques and Technologies, Along with an Invigorating Vision

BY JENNIFER BALDINO BONETT

WITH A LIVELY STEP AND AN EASY SMILE, Markus B. Blatz, DMD, PhD, clips across the marble floors of the Evans Building on route to the Main Clinic. As he walks, the German-born Dr. Blatz talks with great

energy about restorative dentistry and his new role at Penn Dental Medicine. There is much to share: As the new Chair of the Department of Preventive and Restorative Sciences —

overseeing the Division of Restorative Dentistry, the Division of Pediatric Dentistry and Community Oral Health, and instruction in their high-volume clinics and preclinics — Dr. Blatz is bringing experience with the latest techniques, technologies, and materials to the department, along with an invigorating vision.

Indeed, Dr. Blatz arrived at Penn Dental Medicine in September with exemplary European and American credentials. At age 39, he is already well-respected and widely published. His expertise is in aesthetic dentistry, implantology, and dental materials, all of which are on the cusp of new advances and applications that Dr. Blatz is eager to bring to the School's clinical instruction, patient care, and research endeavors.

"The School is one of the premier institutions in dental education and recognized for that both nationally and internationally," says Dr. Blatz, who is also a Professor-Clinician Educator in the Department. "Preventive and Restorative Sciences is the core of dental medicine for most people, and the locus of much of the teaching within the School, and I am excited to be working with the faculty to build our Department's strength and leadership in the field."

From the Black Forest

Born and raised in Heidelberg, Germany, Dr. Blatz was educated in Freiburg, a city on the western edge of the Black Forest. He graduated and received his doctorate from the University of Freiburg in 1994 and 1998, respectively, and

completed a residency in prosthodontics/perioprosthodontics there as well in 1997. Dr. Blatz was assistant professor at the University of Freiburg School of Dentistry during his doctoral study and was named a senior faculty member in 1998. He is a Diplomate in the German Society of Prosthodontics and Materials Sciences.

Dr. Blatz had been "peeking over the fence" to learn about dental medicine research and practice in the United States. He had long admired the work of renowned prosthodontist Gerard J. Chiche, DDS, of Louisiana State

University Health Sciences Center School of Dentistry. In 2000, Dr. Chiche recruited Dr. Blatz to LSU. "Gerard kind of lured me over the Atlantic," says Dr. Blatz, flashing a bright smile. At LSU, Dr. Blatz most recently served as Chairman of the Department of Comprehensive Dentistry and Biomaterials and Assistant Dean for Clinical Research. He also directed the Master of Science in Oral Biology Program. His dedication to dental education is reflected in the significant teaching awards he received from students during his tenure at LSU.

"Dr. Blatz brings excellence as a clinician, researcher, and educator to this role," says Penn Dental Medicine's Morton Amsterdam Dean Marjorie Jeffcoat. "His skills and leadership will ensure that the School remains at the forefront of the latest advances in restorative dentistry."

An internationally respected lecturer and author, Dr. Blatz has published more than 120 articles, abstracts, and chapters; is affiliated with nearly a score of U.S. and international journals; and is associate editor for *Quintessence International* and *Quintessence of Dental Technology*.

Drawing on Nature with Leading Edge Technology

In the tradition of many scientists and clinicians, Dr. Blatz has a penchant for the arts. Before dental school, he was a professional musician, playing drums, piano, and classical guitar, including playing back-up for popular bands. Tendonitis sidelined his music career, but he still plays as a hobby. He turned his career aspirations to the health



Implantology and the use of ceramic materials are a central focus in both Dr. Blatz's clinical practice and research.

sciences, and worked as a dental technician in Germany before starting his formal training in dental medicine. He found himself particularly drawn to the impact of restorative dentistry on patients' lives, "being able to recreate people's smiles, their looks, the way they feel about themselves." And he enjoyed the "sophisticated" challenges of clinical work and research potential in restorative dentistry.

Dr. Blatz relishes the triad of academic medicine, especially "bringing it all together" in the clinical and educational realms through research. He has held significant grant funding for studies in implant dentistry and dental materials, focusing on adhesion, strength, and fit of modern ceramic materials in restorative dentistry. Evolving since their introduction to dentistry in the 1960s, high-strength ceramics show great success as copings, implant abutments, and frameworks for all-ceramic fixed partial dentures.

In his studies, Dr. Blatz has found the versatility of high-strength ceramics as impressive as their longevity. His recent paper in *Quintessence of Dental Technology* reports on the success of aluminum-oxide and zirconium-oxide ceramic materials and illustrates their clinical applications. "These materials provide us with unique aesthetic and functional properties but there are still many open questions in respect to their clinical use," says Dr. Blatz. "It is our role as academicians to provide our students and fellow dentists with unbiased scientific information on the most updated materials and techniques. It is also our role to thoroughly investigate such innovations and their clinical implications before they are recommended for general use in clinical practice." Dr. Blatz notes that the broader use of high-strength ceramic materials will be transformative for restorative dentistry. He cites the "extremely strong movement" (even among patients)

toward ceramic materials for aesthetic and biological reasons, and now the field has stunning technology to support it.

In his restorations, Dr. Blatz incorporates computer-design technology called CAD/CAM (the acronym for computer-aided design/computer-aided manufacturing) to create computerized restorative designs at full color and full scale. CAD/CAM allows clinicians to scan models and casts (and, with some systems, actual teeth) to yield 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.

Clinically, the new materials and technology allow restorative dentists like Dr. Blatz to seamlessly entwine art and science. "We use nature as our role model so function and aesthetics complement each other," he says. Dr. Blatz illustrates his point describing an extensive restoration he performed on a female patient, age 39, who was losing her teeth and facial structure to periodontal disease and caries.

Dental implants, the versatility of ceramics, and the precision of CAD/CAM technology permitted Dr. Blatz to use these innovations to restore the patient's aesthetic appearance and chewing ability with

implant supported high-strength ceramic restorations, designed with CAD/CAM. The outcome was an extraordinarily natural-looking and functional set of new teeth.

Dr. Blatz intends for Penn Dental Medicine to become a leader in ceramic and CAD/CAM technology. "It's so exciting to be part of this technology," he says. "That's what drives me. To teach and provide excellence in clinical restorative dentistry, based on the latest technology and scientific evidence."



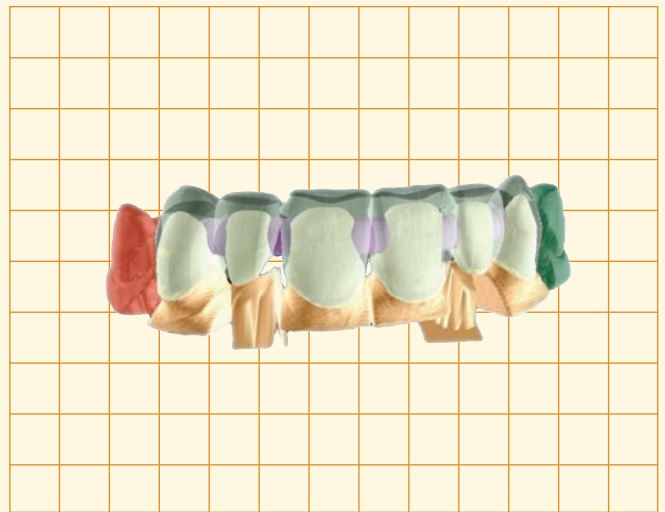
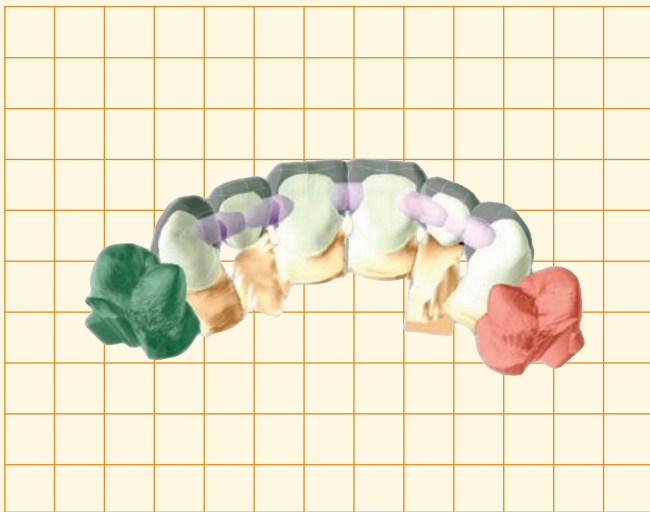
Clinically, the new materials and technology allow restorative dentists like Dr. Blatz to seamlessly entwine art and science.

Pulling It All Together

At the forefront of new materials and technology is precisely where a great dental school should be, says Dr. Blatz, who exudes the passion of someone who knows where he wants to be and the path to get there. During his spirited walk through the Penn Dental Medicine clinics, Dr. Blatz describes how he is building his team and shaping the department. He began with the appointment of Clinical Associate Professor Najeed Saleh (D'94), and Clinical Assistant Professor Alan Mitchell Atlas (D'86), as directors of the restorative clinics, which Dr. Blatz calls "the cornerstone of the department." Drs. Atlas and Saleh served as interim co-chairs of the department before Dr.

- Creating state-of-the-art clinical facilities — a top priority for the School and Dr. Blatz. A major fundraising campaign is currently underway to renovate the Main Clinic.
- Conducting interdisciplinary and interdepartmental in-vitro as well as in-vivo studies pertaining to implant and restorative dentistry.
- Making the School an international platform for state-of-the-art continuing education courses and symposia.
- Increasing the Department's involvement in the School's postdoctoral programs.

With infectious excitement, Dr. Blatz says he looks forward to doing his share to make the School simply the best. "The



CDA/CAM technology allows clinicians to scan models, casts (and with some systems, actual teeth) to design substructures for exacting restorations with precision down to the micrometer and customized for each patient's individual needs.

Blatz arrived. His plans and goals for the Department include:

- Recruiting additional high-caliber full-time faculty members.
- Recruiting renowned laboratory technicians specially trained in CAD/CAM technology and aesthetic dentistry.
- Establishing a Center for Ceramic and CAD/CAM Technology Research in collaboration with the dental industry and other schools at Penn, such as the School of Engineering and Applied Science.

techniques and technologies that continue to develop have tremendous potential within restorative care," he adds. "And Penn Dental Medicine has a tremendous opportunity to lead the way." **PDJ**



Feature

Making Connections, Advancing Research

As Pathology Chair and Associate Dean for Research,
Dr. Bruce Shenker Is Fostering Collaborations in his Own Lab and
Throughout the School's Research Enterprise

BY JENNIFER BALDINO BONETT

Four years ago, Bruce J. Shenker, PhD, organized a faculty research retreat, the first of its kind in some time at Penn Dental Medicine. As the Associate Dean for Research, he expected the retreat to breathe renewed energy into the School's significant research enterprise, in particular, to stimulate new interdisciplinary collaborations among basic and clinical scientists. It did just that.

In fact, he and Dr. Kathleen Boesze-Battaglia, Associate Professor of Biochemistry, had a fortuitous conversation after her poster presentation on retinal rod photoreceptors and related protein structures. They found they could match Dr. Boesze-Battaglia's expertise in protein-lipid interactions and membrane structure to Dr. Shenker's study of protein-related immunosuppression in periodontitis. Soon after, they decided to try an experiment together. That experiment

"Individual investigators can no longer function in a vacuum. In order to be successful scientists, we need to be collaborative." DR. BRUCE SHENKER

led to others, which in turn, yielded two joint papers and has produced fundamental discoveries about toxins produced by pathogens related to periodontitis.

"Individual investigators can no longer function in a vacuum. In order to be successful scientists, we need to be collaborative," says Dr. Shenker. "There's a rapid expansion in new and emerging technologies, and scientists can't be experts in all of these. Most of us are trained in a particular discipline, but most research questions now require interdisciplinary approaches."

Dr. Shenker, also Chair and Professor of Pathology, has served as Associate Dean for Research at Penn Dental Medicine since 2001, encouraging a collaborative spirit uncommon in dental medicine, but one that the National Institutes of Health (NIH) wants to promote more strongly in the health professions. Across Penn Dental Medicine, faculty members appreciate the School's unique research infrastructure. "Science today is fast-paced and it becomes much more efficient to collaborate with individuals who can bring additional expertise to a project than to try to work alone," says Edward J. Macarak, PhD (GR'73), Chair of Anatomy and Cell Biology. "Plus, it is in our own best interest to invest in one another and to share our individual resources with other investigators within the School."

Immunoregulation & Periodontal Disease: Making the Link

As an accomplished basic scientist, Dr. Shenker himself conducts research that is both interdisciplinary and bridges with clinical efforts. His numerous collaborations include those with other Penn Dental Medicine faculty as well as scientists at other universities in the U.S. and abroad. He is widely recognized for his work on host-parasite interactions in periodontal disease and the role of immunoregulation in that process. The high rate of periodontal disease — the American Academy of Periodontology estimates that more than one in three people over age 30 have periodontitis — makes Dr. Shenker's research particularly important clinically.

"Over the past several years, significant progress has been made in our understanding of the etiology and pathogenesis of oral infectious diseases. However, the nature and contribution of the immune system to periodontal disease remains unclear," explains Dr. Shenker. "We propose that immunoregulatory abnormalities contribute to the pathogenesis of and susceptibility to periodontal disease. It is our hypothesis that the systemic immune system plays a primary role to minimize or even prevent periodontal infection. And that oral pathogens may have the capacity to subvert this protective mechanism."

Dr. Shenker earned his doctorate at Georgetown University in 1977, then studied cellular immunology, immunopathology, and immunopharmacology as a post-doctoral fellow at Johns Hopkins University School of Medicine. Enticed by "top-quality scientists" and "the environments of both the Dental School and the Medical School," Dr. Shenker joined Penn Dental Medicine in 1980. Dr. Shenker's research quickly gained notoriety, earning him a Research Career Development Award from the NIH in 1985.

With a \$1.8 million grant from the National Institute of Dental and Craniofacial Research (NIDCR), Dr. Shenker continues his study of bacteria and immunosuppression in periodontitis. His studies have demonstrated that several periodontal pathogens produce factors that could impair disease-fighting T-cells and B-cells. In particular, his research has shown that one of those pathogens — *Actinobacillus actinomycetemcomitans* — produces an immunoinhibitory protein that is a member of a family of cytolethal distending toxins (Cdt). Cdt causes cell-cycle arrest and eventual cell death, potentially paving the way for periodontal disease.

In a complementary study, with \$1.5 million in funding from NIDCR/NIH, Dr. Shenker has also conducted research

on *Fusobacterium nucleatum* and *Treponema denticola*, two oral pathogens that his lab has shown to produce immunosuppressive proteins. The next step is to define the events responsible for cell-cycle arrest and to parse the structure of the proteins.

Dr. Shenker's research on these pathogens holds the potential for a vaccine, future tools to diagnose periodontal infection, and a better understanding of immunoregulation in periodontal disease.

"We are on a unified campus that is already well-integrated in research and academics in terms of the biomedical community." DR. BRUCE SHENKER

An Open Door

In his role as Associate Dean for Research, Dr. Shenker makes a priority of establishing venues for faculty to share mutual interests and expertise. Among those opportunities are weekly research seminars, technology seminars, and a research strategic planning committee with faculty at the junior, mid-career, and senior levels. Dr. Shenker also re-instituted Grand Rounds, enlisting colleague Faizan Alawi, DDS, Assistant Professor of Pathology, to organize the program. Dr. Shenker's connections and commitment to collaboration also extend to his students: He teaches and is course director of general, systemic, and oral pathology.

In 2003, when Dr. Shenker led the first faculty retreat to map a School-wide research strategy, one need kept rising to the top: more opportunities for basic and clinical scientists to work together. The faculty's desire for mutual collaboration proved timely and support has come from the highest levels, both at Penn Dental Medicine and nationally.

Last year, the NIH awarded \$100 million in funding among 12 academic health centers, including Penn, to participate in a national consortium that will transform how clinical and translational research are conducted. The goal is to enable researchers to provide new treatments more efficiently and quickly to patients. Called the Clinical and Translational Science Awards (CTSA), the grants will link 60 institutions by 2012 in new approaches to clinical and translational science, giving new meaning to the aspiration of "bench-to-bedside" research.

Penn Dental Medicine is among the nine schools at Penn committed to leadership of the CTSA, and one of the only dental schools involved nationally. Joseph P. Fiorellini, DMD, DMSc, Professor and Chair of the Department of Periodontics, is Penn Dental Medicine's representative. He calls clinical and translational research "the essence of who we are" and notes that "we often lead the field in these areas." To Dr. Shenker too, it seems a natural fit: "We are on a unified campus that is already well-integrated in research and academics in terms of the biomedical community."

Making Matches

Penn Dental Medicine is particularly prepared for collaborative research initiatives — there are currently 60 active research projects at the School that amount to nearly \$31 million in funding through their complete award cycles. While basic scientists have traditionally conducted more than 90 percent of the School's research, such activity among clinical faculty is rapidly increasing. Moreover, there are significant intersections between the basic and clinical sciences in such projects as:

- Herpes vaccine development, a project with enormous public health implications, led by Gary H. Cohen, PhD, Professor and Chair of Microbiology, and Roselyn J. Eisenberg, PhD (GR'65), Professor of Microbiology at the School of Veterinary Medicine and Dental Medicine (see Penn Dental Journal, Spring 2006, www.dental.upenn.edu/alumni/journal.html);
- Stem cell research on bone regeneration in osteoradionecrosis, led by Sunday O. Akintoye, DDS, MS, Assistant Professor of Oral Medicine, in collaboration with researchers at the School of Medicine (see Penn Dental Journal, Fall 2005, www.dental.upenn.edu/alumni/journal.html);
- Research in temporomandibular joint disorder (TMD), led by clinical researcher Dr. Peter D. Quinn (D'74, GD'78), Chair and Professor of Oral Surgery, and Elisabeth Barton, PhD, Assistant Professor of Anatomy and Cell Biology. Currently, they are independently examining impairments in the craniofacial muscles that may lead to TMD and are exploring a joint project (a connection made through the School's research retreat).

To encourage more such collaborations, the School is now holding its research retreats annually. In June 2006, some 75 basic and clinical scientists gathered to hear colleagues talk about their research in areas ranging from oral medicine and microbiology to biochemistry and pathology. "It is a good step on

Making Connections, Advancing Research



Faculty attendees at the School's research retreat in June 2006. The retreats are now held on an annual basis, bringing clinical and basic science faculty together to build awareness of each others' research and encourage interdisciplinary collaborations.

the road to more collaborative projects," says Dr. Shenker. Dr. Macarak, too, sees the retreats as a valuable forum for exchange: "The retreats offer a window into all the labs at the School."

The third faculty research retreat is scheduled for June 22. The keynote speaker will be Daniel E. Morse, Professor of Molecular Genetics and Biochemistry at the University of California at Santa Barbara and Director of the Institute for Collaborative Biotechnologies, a joint program of UCSB, MIT, and Caltech.

In another new direction for its research venture, Penn Dental Medicine is doing its share to remedy a national shortage of dental researchers. "In an era when private practice seems particularly attractive and lucrative, dental schools nationwide need to think anew about drawing candidates to their research programs," says Morton Amsterdam Dean Marjorie Jeffcoat. "Penn Dental Medicine is perfectly poised to lead the way."

Dr. Shenker is helping to develop a training program which will focus on oral and craniofacial biology, an area of expertise at Penn Dental Medicine and a focus for the NIDCR. The goals would be to attract students interested in research

and to train junior and mid-career clinical and basic science faculty who express interest in research. Particularly appealing are the program's planned interdisciplinary connections: It would involve faculty from Dental Medicine and the schools of Medicine, Veterinary Medicine, and Engineering and Applied Science. The program would feature:

- A short-term predoctoral program for dental students considering academic research careers.
- Training for individuals with a DMD/DDS or PhD in either the basic or clinical scientists.
- Training in patient-oriented research leading to a Master of Science in clinical epidemiology.

Dr. Shenker views the new directions for the research enterprise at Penn Dental Medicine as timely and exciting. "The Robert Schattner Center physically has linked the clinical and basic science components of the School," he says. "That's both a symbolic and tangible change. Our faculty is coming together in new and vital ways. We are now making the most of our academic and intellectual connections to advance the best in dental medicine." **PDJ**

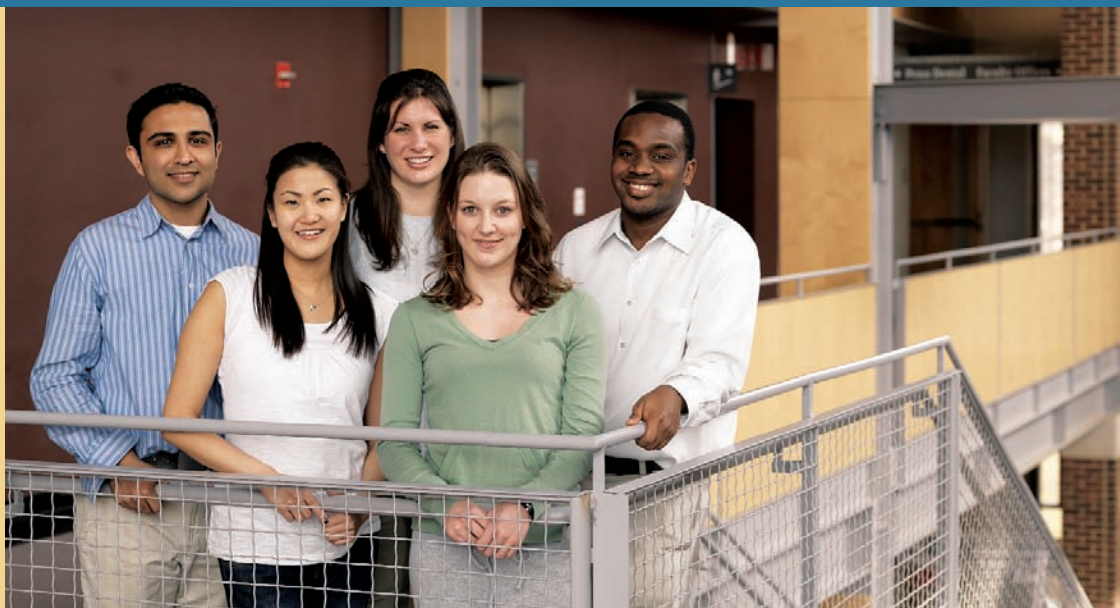
Feature



SERVING THE UNDERSERVED

With a solid foundation in community service from Penn Dental Medicine, alumni like Amanda Gaynor Ashley (D'99, GED'99) are making a difference where it counts the most.

BY JULIANA DELANY



ON A STORMY DECEMBER NIGHT, a Cessna 207 makes a difficult landing on a tiny airstrip near the remote village of Nuiqsut, on the northern slope of Alaska. The temperature is -20 degrees Fahrenheit as the pilot and two passengers, a dentist and a dental assistant from the town of Barrow, a three-hour flight away, prepare to unload boxes of dental supplies. Dr. Amanda Gaynor Ashley (D'99, GED'99) zips up her fur hood tightly around her face. Still ahead of her is a journey through the blizzard into the village, and a short night's sleep on the floor of its medical clinic. In the morning, a line of patients will be waiting for her care.

It may sound like a movie or a television series, but for Dr. Ashley, it's just another day on the job as director of an Alaskan dentistry clinic. It is a job which, as she demonstrates each day, takes a special kind of person — one with a craving for adventure, a love of challenge, and a deep-rooted sense of community responsibility.

Opportunities and Rewards

Although she now works directly for a native Alaskan association, Dr. Ashley found her job through the Indian Health Service (IHS), a branch of the U.S. Department of Health and Human Services providing much-needed healthcare to native peoples. More than 300 dentists nationwide are employed by the IHS's Division of Oral Health, which serves 561 native groups in 35 states — 1.8 million people in all.

Opportunities to pursue public health dentistry abound within the IHS as well as the National Health Service Corps (NHSC), also a branch of the Department of Health and Human Services. Dental graduates with the desire to serve the underserved can join either as a commissioned officer, as a civilian, or as a "direct hire" by a community or native association. Both agencies have more positions than dentists to fill them: A recent visit to the NHSC website listed 430 openings for dentists in underserved areas.

Yet, both also provide attractive incentives, including exciting locales, loan repayment, generous vacation packages, funding for advanced degrees, paid sabbaticals, and solid family benefits. In addition, the NHSC provides dental school scholarships, five of which currently reside with Penn Dental Medicine students, in turn for a "payback" work assignment — one year of service in return for each year of scholarship.

Top, center: Dr. Amanda Gaynor Ashley (D'99, GED'99) has pursued public health dentistry, directing a clinic for the Arctic Slope Native Association in rural Alaska. Bottom: The current Penn Dental Medicine NHSC scholars, who will practice in an underserved area after graduation.

Dr. Robert Collins (D'71), Penn Dental Medicine's Division Chief of Community Oral Health, who worked for the IHS for 24 years, has experienced both the challenges and rewards of a career in public service dentistry. When discussing career options with Penn Dental Medicine students, he makes sure they are familiar with the concept of serving the underserved, a topic that is close to his heart.

"For me, public service turned out to be infinitely more interesting than private practice," says Dr. Collins, whose work for the IHS took him across the country and back. "It's different from private practice in that the peaks and valleys are farther apart. In private practice, you are getting feedback on your efforts quickly and regularly. In public health, it takes a lot longer to see results, but when they do come, they are so immensely rewarding on a personal level."

Currently, Dr. Collins oversees the management of Penn Dental Medicine's community service programs, which provide students with hands-on experience in serving needy populations in Philadelphia. Through the School's service programs, all students experience the challenges and rewards of public health firsthand, building a sense of social responsibility and compassion that can follow them throughout their careers. For a few, like Dr. Ashley, it is the beginning of a way of life.

A Calling to Dentistry

A super-achiever who graduated from high school at 16, Dr. Ashley, a Utica, N.Y. native, realized before college that dentistry was the right career for her. She enrolled in Rensselaer Polytechnic Institute as part of the Penn Dental Medicine Biodental Program, an accelerated program that awards a bachelor's and dental degree in seven years. At Penn, Dr. Ashley earned both her degree in dentistry and her master's in education through a dual-degree program. In 1999, at the age of 23, she was a full-fledged dentist.



IN HER TENURE AS DIRECTOR OF THE ARCTIC SLOPE NATIVE ASSOCIATION DENTAL CLINIC, DR. ASHLEY (RIGHT) HAS ESTABLISHED A DENTAL ASSISTANT PROGRAM, TRAINING AND STAFFING NATIVE RESIDENTS.



Dr. Ashley has always believed that all healthcare should be free or low-cost, and therefore accessible to everyone. After learning that dental care in the U.S. was indeed free to the native population, she decided to find out more about the IHS. Although she explored options in various rural areas, she was drawn to Alaska because her father had been born there. In Barrow, a whale-hunting community of 5,000 Inupiaq Eskimos, she found what she was looking for.

"People stopped me on the street and asked, 'Are you going to be our dentist?'" she recalls of her first visit to Barrow for an IHS interview. "I immediately responded to their friendliness and their sense of humor — they are not afraid to laugh out loud. That, and the need I saw for dental care, really struck a chord with me." With its single traffic light, no paved roads, and no industry, Barrow and its five outlying villages quickly became home.

Hard Work Pays Off

Once settled, Dr. Ashley jumped into the workload that awaited her. Some of the surrounding villages had never had regular dental care, and the work was rigorous and heavily weighted toward emergencies. She saw case after case of serious infection, sometimes life-threatening, that she had read about but rarely seen at dental school.

There were cultural differences as well. "The native people here have much bigger teeth than the non-native popula-

tion," she explains. "It is common for their teeth to have four or five roots rather than three. This made extractions very challenging at first."

In addition, the work was physically demanding and the hours long. "In dental school, you don't see patients 12 to 16 hours a day like we do here," she says. "It's definitely an adjustment." Providing care for the surrounding villages, which can only be reached by bush plane, is an adventure in itself. Each village has a small medical clinic, and the dentist usually sleeps in a sleeping bag on the floor for the duration of the visit. "You spend all your time there, day and night, in one room," says Dr. Ashley cheerfully. "And if the equipment breaks down, there's no one to fix it but you." Dr. Ashley recalls late-night phone conversations with her father, an engineer, as he walked her through basic mechanics. "I've learned to take care of all aspects of the operation," she says.

A Lasting Impact

Within two years, Dr. Ashley had taken over the director's position at the dental clinic and begun working directly for the Arctic Slope Native Association. Today, she is a critical figure in Barrow, and has made a life there with her husband Noah, a wildlife biologist who works for the local government. Dr. Ashley's list of accomplishments during her tenure in Alaska is impressive: She has introduced several major initiatives, including a dental assistant training program, a chil-

Serving the Underserved



ESTABLISHING A CHILDREN'S CLINIC IN BARROW IS HAVING A STRONG IMPACT ON ORAL HEALTH IN THE COMMUNITY. DR. ASHLEY HAS INITIATED WEEKLY "FLUORIDE VISITS" TO THE LOCAL SCHOOLS, EDUCATIONAL SEMINARS ON DENTAL HEALTH, AND A SEALANT PROGRAM.



dren's clinic, a thriving and competitive externship program for dental students, and a series of specialty clinics through which visiting specialists provide care and staff training each year.

The dental assistant training program was one of her first efforts, and has had a lasting impact. "When I got to Barrow, there were no native people on the dental staff, which made no sense because so many of the people we serve are native," she remembers. She quickly saw the value of having staff members who could speak Inupiaq, the native language. Dr. Ashley presented a proposal to the board and received funding for the training program, through which candidates are taught chair-side dental assisting and radiology, as well as cleaning and basic healthcare skills. She is proud of her current staff of 21, including 13 dental assistants, three dentists other than herself, and a few trainees from the local high school. Together, they see 30 to 50 patients a day. (The dentists rotate 4- to 14-day visits to the outlying villages.)

Another point of pride for Dr. Ashley is the children's clinic she founded. "I realized how much impact we could have on the community if we could teach people proper oral hygiene from an early age," she explains. She initiated weekly "fluoride visits" to the local schools, and educational seminars on dental health presented to the schools each quarter. Recently, all children in grades one through five visited the clinic to receive sealants. There is an automatic three-month recall program on all visits to ensure that the children return regularly.

"It breaks your heart to have to take out permanent carious teeth in kids," says Dr. Ashley. "Now, we are really seeing an improvement."

Payback Time

On the other side of the continent, Dr. Angela Austin (D'04) is currently carrying out her "payback" assignment as a pediatric dentist at a community dental clinic in Newport News, Va. As the first NHSC scholarship student to graduate from Penn Dental Medicine, her last two years of tuition, fees, and books were paid for by the agency, which even provided a living stipend. After her pediatric residency in Washington, D.C., the Illinois native chose her current assignment from the NHSC website.

"I always knew I wanted to do something in terms of giving back," says Dr. Austin, who provides care to a low-income population with little or no insurance, including the homeless. "The work can be frustrating at times, particularly when parents don't see the value of regular dental care for their kids, but the rewards are far greater. Helping out patients who otherwise couldn't afford it is a great feeling." Although she hopes to enter private practice when her two-year obligation is finished, she plans to spend one day a week continuing to serve the underserved.

Serving the Underserved



AFTER COMPLETING A PEDIATRIC RESIDENCY, DR. ANGELA AUSTIN (D'04) RECENTLY BEGAN A TWO-YEAR ASSIGNMENT WITH THE NHSC, SERVING A LOW-INCOME POPULATION IN VIRGINIA.



A Tradition of Service

Currently, there are five students at Penn Dental Medicine who are on NHSC scholarships: Christine Bender (D'08), Ajikwaga Felli (D'08), Lisa Lapointe (D'09), Amit Rajani (D'09), and Sarah Yoon (D'07). According to Dr. Collins, this is an impressive number for a single school. The students agree that their interest in public health dentistry is an extension of the community responsibility ingrained in them through the School's programs.

"The main reason I chose Penn was because of the strong commitment to serving the community," says scholarship recipient Ms. Bender. "In going through the interview process, Penn Dental Medicine seemed focused on creating caring practitioners. Our PennSmiles program [which includes a mobile dental clinic that serves children in underserved neighborhoods], in addition to the mandatory service hours, were the real selling points." After graduation, she will put her commitment and her training to work: Through the NHSC, she hopes to start and run her own clinic in an underserved area.

For Mr. Felli, the scholarship is a way to afford the high cost of dental school while ensuring that his goal of making dental care accessible to the public is met. "It seemed like a perfect choice for me: not having to worry about finances during and after dental school, and being able to serve in an area where my services are most needed. I think it is important that some

of us lend our talents toward the public and underserved sectors, since there will always be a need," he explains.

Recipient Ms. Lapointe believes that serving needy populations is a challenge that begins at home. "Today, there seems to be such a focus on providing relief and aid to various places around the world, but there are many issues here in the United States that deserve attention too, and one very important one is improving the overall health and integrity of our own people," she says. "Because Penn Dental Medicine has an excellent Community Oral Health Program and is situated among many communities in need, there is no better place to start than here in Philadelphia."

Absorbed in day-to-day life at her community clinic in Virginia, Dr. Austin agrees. "Penn Dental Medicine is so big on community service that public health seemed a natural way to go," she says. "The School taught me to have compassion for patients, especially for those who have the least." **PDJ**

To Learn More...

Indian Health Service

<http://info.ihs.gov>

National Health Service Corps

<http://nhsc/bhpr.hrsa.gov>

The late Dr. Louis Schoenleber, Jr. (C'42, D'43) left a lasting legacy...



...A legacy that will endure for future generations.

A PIONEER IN ORAL SURGERY, Dr. Schoenleber was fascinated by the work being done in Penn Dental Medicine's dual-degree program in Oral and Maxillofacial Surgery. Thanks to a bequest in his will to support the department, Penn Dental Medicine students will receive state-of-the-art training to treat future generations of patients in need of this highly specialized care.

As Dr. Schoenleber, we hope you will consider creating a lasting legacy in partnership with Penn Dental Medicine by naming the School as a beneficiary of your life insurance, IRA, 401(k) or other retirement plan. For those in the highest tax brackets, such a technique can save you over 70% in estate and income taxes at death. For more information, please contact:

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On Campus

NEWS

Walter Cohen and Morton Amsterdam Postdoctoral Periodontal Clinic Construction Set to Launch in June

Penn Dental Medicine is set to add a new state-of-the-art facility to its clinical care and teaching resources. In early June, the Department of Periodontics will relocate to temporary clinical space within the Robert Schattner Center and demolition of the existing clinic will begin, clearing the way for an entirely new and expanded periodontic clinic in its place. With a projected construction time of eight months, plans call for the new clinic to be completed and operational by early 2008. This new facility will be named the Walter Cohen and Morton Amsterdam Postdoctoral Periodontal Clinic, designated to honor these leaders in Penn Dental Medicine periodontics by The Annenberg Foundation, which contributed \$1 million to the project.

The new 4,600-square-foot facility (600 square feet larger than the current clinic), will feature 18 operatories, three surgical suites, a recovery room, and state-of-the-art digital radiography. "The new clinic will transform operations as well as the educational environment, streamlining the day-to-day logistics of running the clinic and providing more room and resources for teaching on many levels," says Dr. Joseph Fiorellini, Chair of the Department of Periodontics.

Among the special features of the clinic will be the capability to have surgical procedures videotaped and transmitted live to the classroom. Dr. Fiorellini explains that one of the large operatories will be outfitted with cameras in the ceiling and the operating microscope so cases can be observed live in lecture spaces within Penn Dental Medicine. "We will have a state-of-the-art teaching facility, so if we want to demonstrate a

procedure for a predoctoral and postdoctoral course or a continuing education program, we will have the ability to do so," he adds. "It will be built to be adaptable for multiple uses."

The clinic will also include an office for postdoctoral residents to treatment plan and consult with the faculty, along with a locker room for faculty and staff.

The new periodontic clinic is the next phase of the School's current Capital Improvement Plan, which also includes plans for renovating the Main Clinic and Endodontic Clinic. Much of the systems infrastructure to be completed with the construction of the periodontic clinic will also support the Main Clinic renovation, which will be the School's next major facilities project.

Penn Dental Medicine Hosts Minority Recruitment Fair

Why Dentistry? Why Penn? The School's Office of Minority Affairs and Office of Admissions teamed up to answer those questions for prospective students as Penn Dental Medicine hosted its first Annual Minority Recruitment Fair. Held April 13, the day-long event drew pre-health minority students from colleges and universities throughout the mid-Atlantic region, who gathered to learn more about the dental field and the School's programs. While this was the first such college fair presented by Penn Dental Medicine, plans are for it to become an annual event as one of the new initiatives to help strengthen minority representation within the student body, and in turn, dentistry at large.

"The genesis of this project was to stimulate interest in the dental profession among individuals who might not have given a career in dental medicine much thought," notes Assistant Dean for

Admissions, Dr. Scott DeRossi (D'95). "In addition, it is a proactive strategy to recruit individuals from minority groups that are historically underrepresented in the dental profession."

Dr. DeRossi explains that while the number of applicants to dental schools nationwide has doubled in the last six years, the percentage of applicants in some underrepresented groups has decreased. "More dental and medical schools are now competing for a smaller percentage of applicants, making it increasingly difficult to maintain our School's past success in minority recruitment and retention without new and innovative strategies."

The day's program was designed to connect attendees with minority students at Penn Dental Medicine as well as minority alumni in practice to give them a true understanding of the dental school experience and the professional paths and options within dentistry. The program included a tour by students of the Penn Dental Medicine campus, clinics, and classrooms; a presentation by Morton Amsterdam Dean Marjorie Jeffcoat, Dr. Rose Wadenya (D'97), Director of Minority Affairs, and Dr. Scott DeRossi, Assistant Dean for Admissions; a review of the admissions process by Corky Cacas, Director of Admissions and of financial aid resources by Sue Schwartz (GED'75), Assistant Dean for Student Affairs; and discussions with Penn Dental Medicine alumni.

"We are committed to maintaining a dynamic and diverse learning environment at the School of Dental Medicine," adds Dr. DeRossi, "and this fair is one example of many initiatives to help us accomplish that goal."



Farid Shaikh (D'08) led a holiday gift drive that collected more than \$20,000 in gifts for children in the Delaware Valley.

Penn Dental Medicine Sponsors Community Children in Holiday Program

On an October morning, Janie Wermuth, founder of the Delaware Valley Children's Charity, received a late request to add 300 children to its gift list for this holiday season. Overwhelmed by the number, Ms. Wermuth told the caller she could not commit to sponsoring them at the moment, but that she would have a final answer the next day. "Two hours later," Ms. Wermuth says, "Farid Shaikh (D'08) called and said he wanted to help."

As a result of this third-year student's efforts, more than 300 Penn Dental Medicine students, faculty, and staff participated in the 2006 Holiday

Program, giving over \$20,000 in gifts to children in the Delaware Valley. Penn Dental Medicine was one of the program's top five sponsors among a list of over 50 organizations, corporations, and many more families and individuals. Several Wharton School students and undergraduates from the Harrison College House also volunteered to be part of the School's gift drive.

Operated by the non-profit Delaware Valley Children's Charity, the annual Holiday Program began in 1986 to give presents to a single, five-child family. Today, it provides gifts for over 6,500 children from newborns to 15 years of age. "As dental students, we practice and learn our profession with the help of community members. This program allows us to give back to those who help us grow as dental students," says Mr. Shaikh. This is the third consecutive year that Mr. Shaikh has organized the program at Penn Dental Medicine. In the seven years total that he has helped find sponsors for children (four while a student at Temple University), this year had the greatest participation.

"Every year something magical happens that reminds me why we do this. Penn Dental Medicine's participation was that story this year," says program founder Ms. Wermuth. "It's a beautiful tribute to the School and student body."

Each participant is matched with a child and provided a packet of information containing his or her profile, a list of special needs, and a small wish list from the child to work from while shopping. Some of the items typically purchased include blankets, jackets, gloves, and other clothing items, toys, and hobby and sporting equipment. On average, \$75 to \$100 is spent per child, with many participants exceeding those numbers each year. Gifts were collected throughout November in the Robert Schattner Center lobby and distributed by Mr. Shaikh. Several students also accompanied him to deliver their presents directly to the child they sponsored.

In February, Mr. Shaikh received a large envelope full of vibrant, hand-made thank you cards from every child, addressed to their sponsors. "The holiday season is a very important time for children," says Mr. Shaikh. "When someone who they've never met reaches out and shows that they care, it can make a difference."

Commencement May 14

Penn Dental Medicine will mark its 129th Commencement with the graduation of the Class of 2007.

Date/Time: Monday, May 14, 1 p.m.

Location: Irvine Auditorium, 3401 Spruce Street
(A reception will be held in the Robert Schattner Center, Henry Schein Atrium, 240 South 40th Street, following the ceremony.)

Commencement Speaker: Lawrence J. DeLucas, O.D., Ph.D., D.Sc. (Hon) - Dr. DeLucas is a Professor in the School of Optometry, the Director of the Comprehensive Cancer Center X-ray Core Facility, and the Director of the Center for Biophysical Sciences and Engineering at the University of Alabama at Birmingham (UAB). He received five degrees at UAB, including a Doctor of Optometry and Ph.D. in Biochemistry. Currently, Dr. DeLucas is a member of the U.S. Space and Rocket Center Advisory Committee, the Illinois College of Optometry Board of Trustees, the Executive Committee of the Helen Keller Eye Research Foundation and

is also a member of the Japanese Space Agency Science Advisory Board.

In 1992, he spent two weeks on the NASA Space Shuttle Columbia STS-50, participating in over 31 different scientific experiments on materials processing and fluid dynamics. These experiments led to the development and commercialization of hardware that reproduces conventional and novel ground based crystal growth techniques with specific adaptations made to maximize the benefits of a microgravity environment. From 1994 to 1995, he served as Scientist for the International Space Station at NASA Headquarters.

In addition, Dr. DeLucas has published over 130 research articles and co-authored two books on protein crystal growth and is an inventor/co-inventor on 15 patents involving protein crystal growth and structured-based drug discovery. Dr. DeLucas received the Howard Heflin Statesman Award for Technology in 1999 and was recognized as one of the scientists who could shape the 21st Century by "The Sunday Times" of London. In 2002, Dr. DeLucas was inducted into the National Optometry Hall of Fame.



Proposed view of the recreation fields and the Schuylkill River Pedestrian Bridge, part of the Penn Connects development plan.

AROUND THE UNIVERSITY

Penn's Campus and the University City Neighborhood Continue to Evolve

Throughout its history, the University of Pennsylvania has taken a leadership role in shaping both the skyline and the street life of West Philadelphia. In the past year alone, the campus has made great strides with new building projects and plans that are helping to reinvent Penn and the surrounding community for the 21st Century. As has long been its tradition, the University has made its recent development decisions with the benefit of the greater community in mind, considering economic growth, job creation, and quality of life for local residents as it seeks to physically expand and improve campus and related facilities. Following are highlights of a few:

Penn Connects:

The 30-Year Campus Development Plan

This spring, the University announced the purchase of the U.S. Postal Service's Philadelphia facility, which includes the Main Post Office building at 30th and Market Streets, on the western bank of the Schuylkill River. The acquisition of the 24-acre parcel will enable the University to carry out the recommendations of the 2005 planning study for the eastward expansion of campus. The "Penn Connects" plan includes the conversion of 14 acres of surface parking lots into a mix of academic and research buildings, athletic fields and parks, retail shops, office towers, and arts and cultural spaces.

"In adding new contiguous land-holding to our campus, we are in a unique position to grow over time as opportunities arise to meet our mission of teaching and research," said Penn President Amy Gutmann. "And as we

grow, we will make West Philadelphia an even more attractive place to live, work and raise families." The plan highlights will include:

- The extension of Locust Walk eastward into new open fields
- New sports and recreation facilities, including open spaces
- Improved gateways between campus and Center City, and campus and West Philadelphia
- Improved physical connectivity to 30th Street Station
- A 400-bed residence hall with open space and walkway at Chestnut Street between 33rd and 34th Streets
- Future development in academics and research
- Future expansion potential between the medical campus and the Schuylkill River.

For more information on the expansion plan, visit, www.evp.upenn.edu/news/UPenn_ExecSummary.pdf

Domus: A Cutting-Edge "Home" with All of the Amenities

Work is nearing completion on Domus (the Latin word for home), a luxury mixed-use development located on the site of a former parking lot at 34th and Chestnut Streets. Units within the \$71 million Domus should be available for rent by June; a sample unit and the marketing and leasing offices opened in April. Being built by the Houston-based Hanover Company, the complex will feature 295 premium rental residences averaging 1,104 square feet, with the target market being both short and long-term tenants, including recent Penn graduates, graduate students, and Penn faculty and staff. In addition to what the developer has billed as "the cutting edge of urban living," with concierge services, fitness centers, and grocery delivery, Domus will also provide an Internet Café, an indoor pool, a dedicated five-story parking lot, and 23,000 square feet of ground floor retail space.

More Residential and Retail Development at 3900 Walnut

Last June, an agreement was signed between the University and University Partners, a FirstWorthing Company, allowing for the single-story retail complex at 3900 Walnut Street to be razed, making way for a 14-story, multi-use development. It will feature more than 150 living units and 40,000 square feet of commercial/retail space. The site has been cleared and ground breaking is anticipated this spring for this \$75 million project, expected to take 18 to 24 months to complete. Along with Domus, this venture provides more housing options in University City, and brings additional retail businesses to the area, making University City an ever-increasing hot spot in Philadelphia.

Penn Dental Medicine Welcomes New PASS Class

In early April, Penn Dental Medicine welcomed a new class of foreign-trained dentists to its Program for Advanced Standing Students (PASS). Twenty-four students representing 15 different countries were accepted to the program this year, which awards graduates a DMD after two years of study, enabling them to practice dentistry in the United States.

The Penn Dental Medicine PASS program, now in its 22nd year, continues to draw a large number of highly qualified applicants with a diversity of experience. This year's incoming class has National Board scores that averaged 91.29 and many of the students have completed graduate programs or pursued research here in the United States since earning their dental degrees in their native countries.

"The PASS program is an integral part of our School's mission. We are all very proud of the caliber of the students accepted into the program and of the accomplishments of our graduates within clinical practice, teaching, and research," says Dr. Uri Hangorsky, Director of PASS. "In fact, a number of PASS graduates are members of the Penn Dental Medicine faculty."

Before joining the Class of 2009 this fall, PASS students will complete a summer session that includes preclinical work and lectures on the topics addressed in the first and second years of the School's dental curriculum. Penn Dental Medicine is one of 23 U.S. dental schools that offer a PASS program, which awards students a DMD after successful completion of the School's third- and fourth-year classes and clinical requirements.

Special Events

Black History Month 2007 Celebration

On February 27, the Penn Dental Medicine Student National Dental Association (SNDA) presented the 7th Annual Black History Month Celebration, "Women, Leadership, and Dentistry." Held in the Robert Schattner Center's Henry Schein Atrium, the evening included music, food, and keynote speaker, Leslie E. Grant, DDS, MSPA, and Immediate Past President of the National Dental Association, who was honored at the event. Pamela Beaty, Administrative Coordinator for Graduate Dental Education and Minority Affairs also received an award for her work and contributions to minority students at the School and in the community. *Pictured:* Michael Simontacchi-Gbologah (D'08), SNDA President, and Dr. Leslie E. Grant.



Dr. Samuel I. Shames and Hilda B. Shames Visiting Lecture

Penn Dental Medicine hosted the 25th Anniversary Dr. Samuel I. Shames and Hilda B. Shames Visiting Lecture on October 26, 2006. Dr. Harry K. Zohn (GD'86), Clinical Associate Professor of Periodontics at the University of Medicine and Dentistry of New Jersey, spoke on forensic dentistry. *Pictured:* Dr. Harry K. Zohn and Charlotte Shames Zimble, daughter of Samuel and Hilda Shames.

Penn Dental Medicine to Undergo Accreditation Review in Fall 2007

Penn Dental Medicine's predoctoral program and four of its postdoctoral programs will undergo a review by the Commission on Dental Accreditation this coming fall. Dental schools undergo a re-accreditation every seven years, and the site visit for the School's upcoming review will take place September 18 to 20.

As part of the accreditation process, the School has been completing an internal self-study over the past year, examining the ways in which its programs and operations are meeting the School's goals as well as the accreditation standards approved by the Commission. "The self-study is a catalyst for program improvement that continues long after the accreditation

review, so it is a very beneficial and productive process for the School independent of the accreditation itself," notes Dr. Thomas Sollecito (D'89, GD'91), Associate Dean for Academic Affairs, who is Chair of the Accreditation Steering Committee.

Operated under the aegis of the American Dental Association, the Commission on Dental Accreditation establishes, maintains, and applies standards that ensure the quality and continuous improvement of dental and dental-related education and reflect the evolving practice of dentistry. The scope of the Commission encompasses dental, advanced dental, and allied dental education programs.

On Campus

PEOPLE

Dr. Elliot Hersh Named IADR Distinguished Scientist

Dr. Elliot V. Hersh, Professor of Pharmacology and Director of the Division of Pharmacology and Therapeutics, has been recognized for his outstanding contributions to the dental field as the recipient of a 2007 International Association for Dental Research (IADR) Distinguished Scientist Award in the area of Pharmacology/Therapeutics/Toxicology Research. The Award, sponsored by Wyeth Consumer Healthcare, was presented during the 85th General Session & Exhibition of the IADR, held March 21–24 in New Orleans.

The Award acknowledges contributions to the understanding of the



Dr. Elliot V. Hersh

mechanisms, efficacy, and safety of drugs used to treat dental disease and associated symptoms such as pain and peri-operative apprehension. In practice, this encompasses basic and clinical pharmacology studies of analgesics, anesthetics, sedatives, fluorides, and other drug classes used by dentists. The Award is made for outstanding and sustained peer-reviewed research that has contributed to knowledge of the mechanisms, efficacy, or safety of drugs used in dentistry.

Dr. Hersh, who has been a member of the Penn Dental Medicine faculty since 1988, runs an active clinical research program that plays a key role in developing and carrying out clinical protocols. His analgesic research team was instrumental in the granting of FDA approval to a number of analgesic and anesthetic agents, such as ibuprofen liquigels (Advil Liquigels), OTC

ketoprofen (Orudis KT), extended-release etodolac (Lodine XL), and the transoral lidocaine patch (Dentipatch). Among some of his current research projects is an investigation of a local anesthetic reversal agent of soft tissue numbness following local anesthetic injections. Dr. Hersh was one of the five lead investigators nationally on this study, which has shown that the use of this reversal agent (NV-101, administered by injection following the procedure) reduces the length of lip and tongue numbness by 50 to 60 percent.

Dr. Hersh is active in research initiatives throughout Penn, serving as Chairman of the Institutional Review Board on Studies Involving Human Beings and on the University's Standing Conflict of Interest Committee, and the Vice Provost of Research Clinical Research Advisory Committee. "While I wear many hats at the University, the most important part of my job is the impact that I have on my students through teaching and mentoring," says Dr. Hersh. "And the research I do only helps make my teaching that much better."

Among his teaching responsibilities, Dr. Hersh directs and lectures in the predoctoral pharmacology and clinical therapeutics courses and the postdoctoral clinical pharmacology course. He is a past recipient of the University's highest teaching honor, the Lindback Award for Distinguished Teaching, and received Penn Dental Medicine's Excellence in the Teaching of Basic Science Award, presented by students, 14 times.



Dr. Irving M. Rothstein

New Overseers Named to Board

Penn Dental Medicine has named two new members to its Board of Overseers. **Dr. Irving M.**

Rothstein (C'38, D'41) and **Glenn R. Oxner** were officially appointed at the February 23 meeting of the University's Board of Trustees.

Dr. Irving M. Rothstein brings many years of experience in private practice and public service to the Board. After returning from World War II as a decorated officer, Dr. Rothstein maintained a busy private practice in Washington, D.C. for 55 years, specializing in prosthetic and esthetic dentistry.

Since his retirement in 1996, Dr. Rothstein has continued to stay involved in dentistry, providing volunteer dental services to homeless women at the Wellness Center of the Lutheran Church in Washington D.C. As a result of his efforts, the D.C. Dental Society honored this former President of the Society with its Humanitarian Award.

Dr. Rothstein built his career alongside a family tradition of providing dental care to the local community. For 40 years, Dr. Rothstein, his late father, Robert Rothstein, and his brother, Ralph Rothstein, donated their time to fit and make dental prosthesis for residents of the Hebrew Home in Washington D.C., where Robert Rothstein had established a dental clinic. Dr. Rothstein's late father was the Founder of Rothstein Dental Laboratories in Washington, D.C., which at one point was the largest dental lab in the world; in 1974, Rothstein Dental Labs was sold to the Sybron Corporation.

Throughout his career, Dr. Rothstein has been active in many groups within organized dentistry. He was the first Chairman of the D.C. Dental Political Action Committee and President and Delegate to the American Dental Association, and in 1982, was awarded the Sterling Mead Award by the D.C. Dental Society for Outstanding Achievement. Among his other professional affiliations were membership in the D.C. Alumni Chapter of the Alpha Omega Dental



Glenn R. Oxner

Fraternity, Chairmanship of the Metropolitan Washington Section of the American College of Dentists, and an appointment as Fellow of the International College of Dentists and the Academy of General Dentistry. **Glenn R. Oxner** brings a depth of business and financial services expertise to the Board. He is currently the President and Owner of the Belmont Corporation, a management consulting services and financial advisory firm, based in Greenville, S.C. Prior to founding the Belmont Corporation, Mr. Oxner was, from 2001 to 2004, an Executive Vice President at Scott & Stringfellow, a securities firm offering personalized investment advice. And from 1992 to 2001, Mr. Oxner was Chairman of Edgar M. Norris & Company, an investment and securities company in South Carolina that merged with Scott & Stringfellow in 2001. Among Mr. Oxner's additional professional posts, he was a Managing Director at Nations Bank Investment Banking Company from 1989 to 1992, Chairman of First Tryon Securities from 1986 to 1989, Senior Vice President for Interstate Securities from 1977 to 1985, and President of South Carolina Securities Company from 1975 to 1977.

Mr. Oxner is a member of the National Association of Security Dealers (serving as governor from 1981 to 1984) and also holds membership in the Security Industry Association and the Security Dealers of the Carolinas. Active within the community as well, he is a member of the Development and Grants Review Committees of the Community Foundation of Greenville and a former Director of the South Carolina Council on Economic Education, a non-profit organization established to promote economic literacy throughout South Carolina schools.

Department of Periodontics Makes Two New Appointments

The School's Department of Periodontics announces two new appointments — **Dr. Naciye Guzin Uzel** has joined Penn Dental Medicine as the new Director of Predoctoral Periodontics and **Dr. Ernesto Lee (GD'87)** has been named Director of the Postdoctoral Periodontal Prosthesis Program.

Dr. Uzel assumed her full-time faculty post in September 2006, coming to Penn Dental Medicine from Harvard School of Dental Medicine, where in 2006 she was awarded a DMSc degree as well as a Certificate of Periodontology. Dr. Uzel also holds a DDS from Ankara University Faculty of Dentistry (1992), Ankara, Turkey, and a Certificate in Microbiology from The Forsyth Institute (2002).

As Director of Predoctoral Periodontics, Dr. Uzel is in charge of the clinical and didactic components of the predoctoral periodontic curriculum, serving as course director for all predoctoral periodontic courses. "Dr. Uzel brings a depth of skill and knowledge to this position, particularly in the area of periodontal microbiology through her work and



Dr. Naciye Guzin Uzel

study at The Forsyth Institute," says Dr. Joseph Fiorellini, Chair of the Department of Periodontics. "Right now, she is focusing on an evaluation of our predoctoral periodontics, identifying the strengths and weaknesses and ways to enhance the curriculum. We are thrilled to have Dr. Uzel as part of the department."

In his new role, effective January 1, 2007, Dr. Lee oversees the School's Postdoctoral Periodontal Prosthesis Program. Dr. Lee has a long-time affiliation with Penn Dental Medicine, first joining the School's associated faculty in 1985 as a Clinical Instructor in the Department of Restorative Dentistry (1985–1987) and then serving as a Clinical Assistant Professor of Periodontics (1994–1998). Since 2004, he had been Clinical Associate Professor of Periodontics and was promoted to Professor of Periodontics in July 2006. Dr. Lee holds a DDS from the University of Panama (1982);



Dr. Ernesto Lee

DMD from Temple University (1990), where he also served as Director of the Implant Center (1988–1991); and Certificates in Periodontics (1986) and Periodontal Prosthesis — Fixed Prosthodontics from Penn Dental Medicine (1987). Dr. Lee is a frequent contributor to the literature and lectures nationally and internationally on topics related to esthetics and interdisciplinary therapy. "Dr. Lee is a skilled clinician and teacher and has made a significant impact on dental education at the School through his instruction in Periodontics and Periodontal-Prosthesis," notes Dr. Fiorellini. "We are pleased to have him guiding this program."

Faculty and Staff

Honored for Years of Service

Penn Dental Medicine faculty and staff were recognized for their service and dedication at the School's annual employee recognition ceremony, held March 16 in the Sig Seigel Alumni Center and Conference Room. Department Chairs and supervisors presented the awards to employees who have been with the School or University for 40, 35, 30, 25, 20, 15, and 10 years. The award recipients include the following:

40 Years — Gigi Grabski, Endodontics

35 Years — Manuel M. Ponce De Leon, Microbiology; Edward T. Lally (GD'73, GR'79), Pathology

30 Years — Rosario Felizardo Mayro (GD'76), Orthodontics; Neil L. Moscow (GD'76), Pedodontics; Carol L. Walsh, Oral Medicine

25 Years — Paula R. Edwards, Microbiology; William H. Phillips, Information Technology

20 Years — Joseph Foote (D'74, GD'80), Oral Surgery; Carolyn Gibson, Anatomy & Cell Biology; Gerald Harrison, Biochemistry; Donald Glenn Rebhun (D'80), Oral Surgery; Xiuren Shi, Periodontics; Sara Rafalin-Simpser (D'81), Preventive & Restorative Sciences

15 Years — Craig Abbs, Fiscal Operations; Neal Edward Bozentka, Oral Surgery; Arthur Jay Cohen, Biochemistry; Marianne Contino, Dental Care Network; Dumitru Gogarnoiu (D'89, GD'92, GD'92), Periodontics; Joan I. Gluch (GR'92), Preventive & Restorative Sciences; Mamle Mante (D'92), Preventive & Restorative Sciences; Alida Montijo, Oral Surgery; Ze-Ling Niu, Biochemistry; Howard M. Rosenberg (GED'74), Pedodontics; Syngcuk Kim, Endodontics; Seyed M.A. Zekavat, Pathology

10 Years — Denise Adamson, Pedodontics; Thomas Campbell Barber, Preventive & Restorative Sciences; Elisabeth Ruth Barton, Anatomy & Cell Biology; Melvin Arnold Blake, Oral Surgery; David Mitchell Fahringer, Clinical Management; Chenequa L. Green, Oral Medicine; Barry Paul Levin, Periodontics; Margrit P. Maggio (D'87), Preventive & Restorative Sciences; Karen E. Miller (GD'93), Preventive & Restorative Sciences; Lawrence P. Montgomery III, Dental Care Network; Allan Jay Olitsky, Dental Care Network; Robert Anthony Penna (D'993, GD'96), Orthodontics; Robert L. Perlot (D'97, GD'00), Orthodontics; David Charles Stanton (D'88, M'92, LD'95), Oral Surgery; Eric Stoopler, Oral Medicine (D'99, GD'02); Essam Kamal Taha (D'94), Dental Care Network; Rose Wadenya (D'97), Preventive & Restorative Sciences; Martin Weinberg (D'74), Preventive & Restorative Sciences

Penn Dental Medicine Student Tops Research Competition

This fall, third-year student **Lindsay Pfeffer (D'o8)** took top honors for her research, winning first place in the Basic Science and Research category of the 47th Annual American Dental Association (ADA)/DENTSPLY Student Clinician Program. The ADA offers this joint-venture program with DENTSPLY every year as part of the scientific session of its annual meeting, with students competing from dental schools nationwide. This year's program took place at the 147th ADA Annual Session, held October 16–19 in Las Vegas.

"I was very surprised to win," says Ms. Pfeffer. "A lot of important topics were presented. I'm proud to have done so well and represent Penn Dental Medicine."

Ms. Pfeffer won for her poster presentation on *IGF-I Distribution in Muscle Cells Is Affected by Alternative Splicing of IGF-I Gene*, research she worked on under preceptor Dr.

Elisabeth Barton, Assistant Professor of Anatomy and Cell Biology, during the School's Summer Research Program. Ms.

Pfeffer was chosen to participate in the ADA/DENTSPLY

Program as the grand prize and first place basic science winner in the Penn Dental Medicine Oral Health Fair and Table Clinic, held in April 2006. Presented by the Vernon J. Brightman Student Research Society each spring, the Fair continues a longstanding tradition of spotlighting excellence in student research at the School.

Many of the nearly 40,000 members and guests who attended the Annual Session viewed the ADA/DENTSPLY Student Clinician Program, which included one student from each dental school in the country. Students were



Lindsay Pfeffer (D'o8)

judged on subject matter, the way the subject is presented, and the table display used to illustrate the presentation; prizes were awarded in Basic Science and Research and Clinical Application and Techniques. All student participants were also inducted into the Student Clinicians American Dental Association (SCADA), founded over 50 years ago to recognize and encourage those engaging in dental research.

As a first-place winner, Ms. Pfeffer and the Clinical Application and Technique category winner, Amira Baker from Howard University College of Dentistry, were also invited to present their work as part of the scientific program at Chicago Dental Society's Midwinter Meeting, held February 22 to 25.

"Participating in the ADA Meeting was the best experience in dentistry that I've ever had," says Ms. Pfeffer, daughter of the late Dr. William Pfeffer, Jr. (D'74). "Penn Dental Medicine gives students the chance to engage in research at a variety of levels, not every school offers this type of opportunity. I feel lucky to be a student here."

Students Named to Matthew Cryer Honor Society

Penn Dental Medicine is pleased to acknowledge the newest students selected for induction to the Matthew Cryer Honor Society from the Class of 2008. Each year, the 10 highest-ranked students at the end of their second year (as determined by general order of merit) are selected for membership.

The Cryer Society was established in 1912 in honor of Dr. Matthew Cryer, a Professor of Oral Surgery, researcher, and clinician. Induction into the Society is the highest scholastic honor awarded by the School, recognizing the outstanding achievements of Penn Dental Medicine students.

The students selected for membership this year include **Rola Alkhatib, Candice Carpenter, Marie Falcone, Madeleine Goodman, Miriam Habeeb, Soo-Hyun Han, Katrina Hernandez, Blaine Keister, Ga Eun Lee, and Jessica Lynch.**

New Coordinator of Faculty Affairs

Michele Taylor has assumed the role of Coordinator of Faculty Affairs at Penn Dental Medicine. Named to the position in October, she is responsible for managing all faculty appointments, including classification of faculty posi-



Michele Taylor

tions, promotions, recruitment, reappointments, and directly overseeing all faculty records for the School. Additionally, Ms. Taylor serves as a resource on all faculty-related issues and is a liaison

between the School and Office of the Associate Provost. Previously, Ms. Taylor was Coordinator of Biochemistry, a post she held for 17 years. "In assuming this new role, I look forward to working with Dean Jeffcoat and members of the School's faculty and staff," says Ms. Taylor.

Annabelle Jellinek, who formerly held the position, has left Penn Dental Medicine after 26 years of service to the School and a total of 35 years at the University.

Peter Wood, Director of Human Resources

Penn Dental Medicine welcomes **Peter Wood** as its new Director of Human Resources. Named to the position in October, Mr. Wood is an alumnus of Temple University, where he received a B.A. in Business Administration with a major in Human Resources. Mr. Wood previously worked as a branch manager for 10 years at MISI Company in Bala Cynwyd, Pa., and in Human Resources at Price Waterhouse Coopers.

At Penn Dental Medicine, Mr. Wood works primarily on staff issues such as hiring, compensation, performance management, family medical leave, benefits, and staff relations. Additionally, he serves as an information resource for both faculty and staff-related human resources issues.

"My goal is to increase the fluidity of communications between the Penn



Peter Wood

Dental Medicine community and Human Resources," says Mr. Wood. As a part of that mission, he plans on hosting a series of informal lunches to answer questions and provide information on employee benefits, policies, and savings plans. "Human resources should facilitate everyday work life," says Mr. Wood. "My door is always open to help answer people's questions."

aca

alumni council on admissions

PLEASE REMEMBER:

- The best use of the alumni tie is to apply Early Decision.
- Applicants who would like an on-campus interview with the Alumni Council should plan to complete it before application deadlines (Early Decision—Nov. 1, Regular Decision—Jan. 1). Please call 8 weeks in advance.
- We encourage you to arrange your interview during the summer months before you complete your application.

- functions as an on-campus resource answering questions about the Penn application process for alumni children and grandchildren
- offers on-campus interviews during the admissions process for legacy applicants once they have completed the 11th grade



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Scholarly Activity

Awards & Achievements

Dr. Robert J. Collins (D'71), Division Chief of Community Oral Health

- Received the International Association of Dental Research (IADR) Distinguished Service Award for service to the Association for over 11 years, March 2007.

Dr. James C. Garvey (GED '07), Associate Dean for Development and Alumni Relations

- Received the Doctor of Education degree (EdD) from the Graduate School of Education at the University of Pennsylvania, 2007.

Dr. Ernesto A. Lee (GD'87), Clinical Professor of Periodontics

- Speaker at the American Academy of Esthetic Dentistry Annual Meeting in Grand Cayman, August 2006.
- Featured speaker at the American Academy of Periodontology Annual Meeting, September 2006.

Dr. M. Jeffrey Morton (D'76), Clinical Assistant Professor of Periodontics

- Invited to present periodontal medicine topics as Grand Rounds Lecturer at Deborah Heart and Lung Hospital Center, December 2006.
- Presented Periodontal lectures to Burlington County Dental Hygiene School, November 2006.

Dr. Louis E. Rossman (D'75, GD'77), Clinical Professor of Endodontics

- Served as Vice President of the American Association of Endodontists, 2006–2007.
- Elected to President-Elect of the American Association of Endodontists.

Dr. Thomas P. Sollecito (D'89, GD'91), Associate Dean for Academic Affairs and Associate Professor of Oral Medicine-Clinician Educator

- Received the Award of Excellence from University of Pennsylvania School of Medicine, 2006.

Dr. Steven P. Weinberg, Clinical Assistant Professor of Restorative Dentistry

- Received the Certificate of Proficiency in Esthetic Dentistry from The Esthetic Dentistry Educational Center at The State University of New York, December 2006.

Selected Publications

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

Bartlett JD, Skobe Z, Lee DH, Wright JT, Li Y, Kulkarni AB, **Gibson CW**. A developmental comparison of MMP-20 and amelogenin null mouse enamel. European Journal of Oral Sciences. 2006; 114 (Supplement 1):18–23.

Bender FC, Samanta M, Heldwein EE, Ponce de Leon M, Bilman E, Lou H, **Eisenberg RJ, Cohen GH**. Antigenic and mutational analyses of herpes simplex virus glycoprotein B reveal four functional regions. 2007 Jan 31; (Epub ahead of print).

Blatz MB, Chiche GJ, Holst S, Sadan A. Surface Treatment, luting agent, and simulated aging influence bond strength to zirconia. Quintessence International. 2007.

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Boesze-Battaglia K, Stefano FP, Fitzgerald C, and Muller-Weeks S. Rom-1 potentiates photoreceptor specific membrane fusion processes. Experimental Eye Research. 2007; 84:22–31.

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Cao L, Volgina A, **Korostoff J, DiRienzo JM**. Role of intrachain disulfides in the activities of the CdtA and CdtC subunits of the cytolethal distending toxin of *Actinobacillus actinomycetemcomitans*. Infection and Immunity. 2006; 74:4990–5002.

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Chen Z, Earl P, Americo J, Damon I, Smith SK, Zhou Y-H, Yu F, Sebrell A, Emerson S, **Cohen GH, Eisenberg RJ**, Svitel J, Schuck P, Satterfield W, Moss B, Purcell R. Chimpanzee/human mAbs to vaccinia virus B5 protein neutralize vaccinia and smallpox viruses and protect mice against vaccinia virus. Proceedings of the National Academy of Sciences. 2006; 103:1882–1887.

Crampton N, Bonass WA, Kirkham J, **Gibson CW**, Thomson NH. Imaging RNA polymerase-amelogenin gene complexes with single molecule resolution using atomic force microscopy. European Journal of Oral Sciences. 2006; 114 (Supplement 1):133–138.

DeRegge N, Nauwynck HJ, Geenen K, **Krummenacher C, Cohen GH, Eisenberg RJ**, Mettenleiter TC, Favoreel HW. Alpha-herpes virus gD interaction with sensory neurons triggers formation of varicosities that serves as virus exit sites. Journal of Cellular Biology. 2006; 174:267–275.

Gamborena I, **Blatz MB**. *Comprehensive Rehabilitation with a CAD/CAM ceramic system*. Quintessence of Dental Technology. In press, 2007.

Gibson CW, Yuan ZA, Li Y, Daly B, Suggs C, Aragon MA, **Alawi F**, Kulkarni AB, Wright JT. Transgenic mice that express normal and mutated amelogenins. Journal of Dental Research. In press.

Grossmann Y, Arauz-Dutari J, Chogle S, **Blatz MB**, Sadan A. Periodontal-prosthetic treatment of crown-root fracture- A Conservative Multidisciplinary Approach. Quintessence International. 2006; 37:753–9.

Hannah BP, Heldwein EE, **Bender FC, Cohen GH and Eisenberg RJ**. Mutational evidence of internal fusion loops in HSV glycoprotein B. Journal of Virology. Accepted for publication. 2007.

Hatakeyama J, Philp D, Hatakeyama Y, Haruyama N, Shum L, Aragon MA, Yuan Z, **Gibson CW**, Sreenath T, Kleinman HK, Kulkarni AB. Amelogenin-mediated regulation of osteoclastogenesis, and periodontal cell proliferation and migration. Journal of Dental Research. 2006; 85:144–149.

Heldwein E, Lou H, Bender F, **Cohen GH, Eisenberg RJ**, Harrison SC. Crystal structure of glycoprotein B from Herpes Simplex Virus 1. Science. 2006; 313:217–220.

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Horvath S, Prandovszky E, Kis Z, **Krummenacher C, Eisenberg RJ, Cohen GH**, Janka Z, Toldi J. *Spatiotemporal changes of the herpes simplex virus receptor nectin-1 in murine brain during postnatal development*. Journal of NeuroVirology. 2006; 12:161–170.

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Li Y, Yuan ZA, Aragon MA, Kulkarni AB, **Gibson CW**. *Comparison of body weight and gene expression in amelogenin null and wild-type mice*. European Journal of Oral Sciences. 2006; 114 (Supplement 1):190–193.

Limkangwalmongkol P, Chiche GJ, **Blatz MB**. *Precision of fit of two margin designs for porcelain-fused-to-metal crowns*. Journal of Prosthodontics. In press, 2007.

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Moore PA, Boynes SG, **Hersh EV, DeRossi S, Sollecito T**, Goodson JM, Flores C, Leonel J, Peterson C, Hutchenson M. *Anesthetic efficacy of 4% articaine 1:200,000 epinephrine: two controlled clinical trials*. Journal of the American Dental Association. 2006; 137:1572–1581.

Moore PA, Doll B, Delie RA, **Hersh EV, Korostoff J, Johnson S**, Goodson JM, Halem S, Palys M, Leonel J, Kozlowski V, Peterson C, Hutchenson M. *Hemostatic and anesthetic efficacy of 4% articaine HCl with 1:200,000 epinephrine and 4% articaine HCl with 1:100,000 epinephrine when administered intraorally for periodontal surgery*. Journal of Periodontology. 2007; 78:247–253.

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Pinto A, Lindemeyer RG, Alawi F. *Treatment of a young patient with combined autoimmunity: Evans syndrome: A case report and review of the literature*. Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology Endodontics. In press.

Pinto A, Lindemeyer RG, Sollecito TP. *Thalidomide for PFAPA*. Oral Medicine, Oral Pathology, Oral Radiology Endodontics. In press.

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Savion I, Saucier CL, Rues S, Sadan A, **Blatz MB**. *The pier abutment: A review of the literature and a suggested mathematical model*. Quintessence International. 2006; 37: 354–352.

Siegel M, Silverman S, **Sollecito TP**. *Clinician's Guide to Treatment of Common Oral Conditions, Sixth Edition*. BC Decker Ontario, Canada. 2006.

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Swanson EC, Fong HK, Foster BL, Paine ML, **Gibson CW**, Snead ML, Somerman MJ. *Amelogenins regulate expression of genes associated with cementoblasts in vitro*. European Journal of Oral Sciences. 2006; 114 (Supplement 1):239–243.

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Weinberg SP. *Conservative esthetic dentistry — What's the controversy?* Dental Economics. 2006 September; Volume 96, No. 9, P. 64.

Weinberg SP. *A conservative and painless approach to anterior and posterior aesthetic restorative dentistry*. Dentistry Today. 2006 July; Volume 25, No. 7 P. 118.

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Whitbeck JC, Zuo Y, Milne RS, **Cohen GH, Eisenberg RJ**. *Stable association of herpes simplex virus with target membranes is triggered by low pH in the presence of the gD receptor, HVEM*. Journal of NeuroVirology. 2006; 80:3773–3780.

Xiao Y, Aldaz-Carroll L, Ortiz AM, Whitbeck JC, Alexander E, Lou H, Davis HL, Braciale TJ, **Eisenberg RJ, Cohen GH**, Isaacs SN. *A protein-based smallpox vaccine protects mice from vaccinia and ectromelia challenge when given as a prime and single boost*. Vaccine. 2007; 25:1214–24. Epub 2006 Oct 17.

Grants

The following grants were awarded from 7/1/2006–2/28/2007

Department of Anatomy and Cell Biology
Evaluation of IGF-I Compounds for Muscular Dystrophy Therapy, 12/15/2006–12/31/2007
Funding Source: Muscular Dystrophy Research
Principal Investigator: Dr. Elisabeth Barton, Assistant Professor of Anatomy and Cell Biology

Department of Microbiology
Chimeric Bacterial Toxins and Cancer Therapy, 8/1/2006–7/31/2008
Funding Source: National Institutes of Health
Principal Investigator: Dr. Joseph DiRienzo, Professor of Microbiology

Department of Oral Medicine
Treatment of Osteoradionecrosis
with Bone Marrow Stromal Cells,
 8/01/2006–7/31/2011

Funding Source: Institutes of Health

Principal Investigator: Dr. Sunday Akintoye, Assistant Professor of Oral Medicine

Department of Oral
Surgery/Pharmacology
Double-blind, Randomized,
Placebo-controlled, Multi-center,
Dose Ranging Study of Bema
Buprenorphine in the Treatment
of Post-operative Pain,
 8/1/2006–7/31/2007

Funding Source: Schachtel Research Co.

Principal Investigator: Dr. Elliot Hersh, Professor of Oral Surgery/Pharmacology

Department of Pathology
A Role for DKC1 in Cell Cycle
Progression and Proliferation,
 01/01/2007–12/31/2007

Funding Source: Abramson Cancer Center of the University of Pennsylvania

Principal Investigator: Dr. Faizan Alawi, Assistant Professor of Pathology

IADR Abstract Presentations

The following abstracts were presented at the International Association for Dental Research (IADR) 85th General Session, held March 21–24 in New Orleans, LA. Penn Dental faculty, staff, and students are indicated in bold.

Alawi F, Patel R. *Dkc1 Is a Direct Target of c-Myc in Human Cells.* #0169

Elliot A, Geurs NC, McNeal SF, Vassilopoulos PJ, **Jeffcoat M**, Haigh SJ, Reddy MS. *10-year Radiographic Evaluation of Hydroxyapatite (HA)-Coated and Titanium Threaded Implants.* #1049

Gibson CW, Li Y, Daly B, Suggs C, **Yuan Z-A, Aragon M**, Kulkarni AB, Wright, T. *The M180 Amelogenin Partially Rescues the Amelogenin Null Enamel Phenotype.* #2476

Kim S-J, Vanarsdall R, Polson A, Katz S. *Periodontal Outcomes on Unerupted Maxillary Canines after Apically Positioned Flaps.* #1914

Kim Y, Mante FK. *Liquid Rubber Toughening Agents for Bis-GMA Resins.* #1594

Meng X, Catlin A, Gluch J, Davis K, Jeffcoat M. *Oral Health Status of Low Income Children in West/Southwest Philadelphia.* #2122

Polson A, Gutierrez K, Frantz B, Hanex P, Refaat Y. *Dentin Attachment after Treatment with either Citric Acid or Tetracycline.* #2966

Stefanik D, Levin L, Leboy PS, Akintoye SO. *Pamidronate Enhances Osteoblast-Inducing Ability of Oro-Facial Bone Marrow Stromal Cells.* #0165

Viechnicki B, Kim M, Mante F, Kim S, Nah H-D. *Shear Strain Aligns Collagen Fibers and PDL Fibroblasts in 3D-Culture.* #2379

Yagiela J, Goodson JM, **Hersh EV**, Moore PA, Papas AS, Rutherford RB. *Reversal of Soft-Tissue Anesthesia by an A-Adrenergic Blocker.* #0032

Zajac A, Cabiling DS, Salhab I, Lee S-H, Nah H-D. *The Effect of Pyrophosphate on Calvarial Osteoblast Proliferation and Differentiation.* #1241

Zhang H, Garrigues J, Tompkins K, Snead ML, **Gibson CW**, Somerman MJ. *Amelogenin Binds to Cell Surface LAMP-1 on Root Associated Cells.* #0782

Celebrate Penn Dental Medicine Pride!

Return to Penn Dental Medicine for Alumni Weekend 2007, May 11–12, and reunions for classes ending in “2” and “7.” 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

- **Women’s Forum Presentation** — “Empowering Patients to be Effective Collaborators: 21st Century Prescription for Health and Wellness” by Dr. Marie A. Savard (NHP’70, NU’72, M’76, INT’80), an internationally-recognized internal medicine physician, expert on wellness, and champion for patient rights.
- **Student-Led Dental School Tours and DentSim Lab Open House**
- **Alumni 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 2007 Alumni Awards of Merit will be presented during the cocktail reception. There will also be a special presentation inducting Thomas Evans into the Hall of Fame of the Pierre Fauchard Academy, an international honorary dental organization that recognizes outstanding dentists and celebrates their achievements.

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/alumni2007.

We look forward to welcoming you back!



Philanthropy

HIGHLIGHTS

Penn Dental Medicine

Beneficiary of Dr. Sigmund B. Lichterman (C'33, D'34) Bequest

Penn Dental Medicine was the recent beneficiary of a bequest gift from Dr. Sigmund B. Lichterman (C'33, D'34), who generously remembered the School in his will. The \$10,000 unrestricted gift has been directed to the Main Clinic Renovation Fund, which will support the modernization of the Main Clinic — a top building priority for the School at this time. "We are grateful for Dr. Lichterman's dedication to his alma mater, and his commitment to supporting the future of dental medicine," says Dr. James Garvey, Associate Dean for Development and Alumni Relations.

Dr. Lichterman, who died September 10, 2006 at the age of 97, lived in Coconut Creek, Fla., since his retirement from dentistry in 1984. A devoted clinician for 50 years, practicing in Westchester County, N.Y., and serving in the Medical Corps during World War II, Dr. Lichterman was an equally devoted and skilled sculptor. Sculpture was a lifelong avocation of this Pittston, Pa., native, and his family members recall him sharing how the



"The Seed," a work carved by Dr. Lichterman from one piece of black walnut.

Display Honors Generosity of Dr. Louis Schoenleber, Jr. (C'42, D'43)

The life and generosity of Penn Dental Medicine alumnus Dr. Louis Schoenleber, Jr. (C'42, D'43) have been recognized with a special display, located within the School's Robert Schattner Center, Henry Schein Atrium. Dr. Schoenleber, who died in January 2005 at the age of 84, left the majority of proceeds from his multimillion-dollar estate to the Penn Dental Medicine Department of Oral and Maxillofacial Surgery. While his estate is still being settled, the School has received over \$8 million of this bequest to date — \$2.1 million to endow the Louis Schoenleber Chair of Oral and Maxillofacial Surgery and an additional \$6 million in support of the Department of Oral and Maxillofacial Surgery. It is estimated that upon final settlement, the gift total will likely exceed \$12 million.

After graduating from Penn Dental Medicine in December 1943, Dr. Schoenleber served in World War II, completing active duty in 1946 and fulfilling the remainder of his naval service commitment on the staff of the Brooklyn Naval Hospital. For 35 years, he practiced oral surgery in Ridgewood, N.J. The display includes documents and memorabilia from throughout his career and time at Penn.



one role fed the other — the castings and metal work he learned as a dentist honed his sculpting skills, while his affinity for sculpting enhanced his dental work. His Penn Dental Medicine classmates recognized that as well with his Class of 1934 yearbook reading, "His sculptural talent will assure his patients of inlays carved to perfect anatomical form."

Dr. Lichterman formally studied sculpture after his service in World War II and throughout his life produced pieces in various media, including stone, bronze casting, and laminate wood, devoting much of his time since retirement to his art. An exhibit celebrating his life and

work is on display at the Coral Springs Museum of Art, Coral Springs, Fla., through May 19, 2007 and an online gallery of his work can be visited at www.siglichterman.com.

Omissions from 2005–06 Honor Roll

In preparing the 2005–06 Honor Roll, every effort was made to ensure the accuracy and completeness in recognizing all who have generously supported Penn Dental Medicine. However, we regret that an omission did occur and would like to recognize the following donor for his contribution during the period of July 1, 2005 to June 30, 2006. We offer our sincere apology and generous thanks to the following:

Annual Giving Donors

Benjamin Franklin Society
Member (\$2,500–\$4,999)
Keith D. Libou, D'84

Alumni

NEWS

ALUMNI PROFILE:

Sima Yakoby (D'02, GD'07)

Sima Yakoby, a Penn Dental Medicine predoctoral alumna and a current post-doctoral student of orthodontics, remembers clearly the day that changed her life. It was an ordinary morning in her hometown of Forest Hills, N.Y. On the way to school, as the 13-year-old rode with her mother in the front seat, the family car was involved in a head-on collision that she was lucky to survive.

"I remember looking in the rearview mirror, and all I could see was blood," she says. "My face was literally smashed. My nose and my jaw were broken, and my top and bottom teeth were completely pushed out of place." She was rushed to the hospital, and it was then that her fascination with teeth began.

"I was treated by an entire team of doctors, dentists, and orthodontists," Yakoby remembers. "They set my jaws and were able to put my teeth back in place." For the next 17 years, she spent hours in dental chairs, undergoing implants, bridges, root canals, and crowns.

It is no surprise, then, that when it came time to choose a profession, the SUNY-Albany college student decided to apply to dental school. The prestige and reputation of Penn Dental Medicine attracted her, and she accepted a scholarship here. "The workload was difficult, and I was intimidated by drilling at first," she recalls. "In my third year, I finally got comfortable with it. By the time I graduated, I was ready to take on another big challenge."

Recalling her accident and the dentists who had helped her, she took a residency in emergency oral surgery in New York. There, on call every other night, she found the work even more intense than she had expected. "I was treating people with gun-shot wounds to the face," she says. "It was grueling work. I'm glad I did it, but it wasn't what I wanted to do for the rest of my life." She turned down a job offer in oral surgery and decided instead to work in general cosmetic dentistry at a private practice in Manhattan.

If her experience working in a hospital was too intense, she quickly found that her new job lacked the challenge she had been hoping for. It was then that she began to consider

skeletal deformities that need to be corrected, while others are simply teenagers needing braces. Whatever their goal, she is delighted to help them achieve it, and her own experiences have given her an unusual level of compassion and empathy. "Everything they are going through, I've been through myself," she says. "It's easy for me to slip into their shoes."

The orthodontics program at Penn Dental Medicine has reached far beyond her expectations. "Everyone I've met here is passionate and intelligent. Penn believes in a certain way of treating, but at the same time they are always open-minded, and they promote the entire scope of orthodontics," she explains. "I've had a chance to meet



Sima Yakoby (D'02, GD'07)

"I love having the ability to change someone's face and, in the process, help them feel better about themselves. It's such an empowering gift."

orthodontics, and because it had played such an important role in her life, she felt she owed it a try. She applied to Penn Dental Medicine for postdoctoral training in the Department of Orthodontics, where she feels she has found her true calling.

"I love to get up every day knowing that I am doing what I was meant to do," she says. "I love having the ability to change someone's face and, in the process, help them feel better about themselves. It's such an empowering gift." She greatly enjoys her clientele, whom she describes as "motivated, excited, and hopeful" people of all ages. Some have genetic abnormalities or

and observe orthodontists from all over the world, and I've gained so much knowledge that I can make up my own mind about the best way to do things."

As she prepares for graduation this spring, Yakoby plans to head back to private practice in New York, this time as an orthodontist. Her education from Penn Dental Medicine has given her the confidence to take on whatever the future holds: "I feel that no matter what is thrown my way, I will be able to handle it."

ALUMNI PROFILE:

Maria Perno Goldie (DH'71)

The dental hygienist as speaker and independent practitioner. As corporate consultant and spokesperson. As magazine editor. All these roles and more have opened up for hygienists over the last decade, and Penn Dental Medicine alumna Maria Perno Goldie, (DH'71), MS, has experienced nearly all of them.

In January 2006, Advanstar Dental Media named Goldie Editor in Chief of its new publication, *Modern Hygienist*. A private, unaffiliated magazine, it carries the usual information on science and patient care, but adds sections on careers and life where, Goldie says, "we talk about dental hygienists as people," such as those working with church groups or out of mobile vans.

After getting her dental hygiene certificate at Penn Dental Medicine, Goldie moved to California, where she earned a B.A. in Health Services Administration from Saint Mary's College and an M.S. in Health Science from San Francisco State University. Along the way, "I was asked to be a speaker for dental companies and to work during corporate conventions." The corporations offered her training in speaking and sales, which, she says, are "excellent tools to enhance your professional development. And if you want to work in the corporate world and in interdisciplinary health care, you need the advanced degrees to be on an educational par with other health professionals."

Goldie's master's work concentrated on health science "at a time when people were starting to realize that it is necessary to note a lot of different things in treating diseases." Conditions

such as pregnancy, HIV, and diabetes, she explains, may first make themselves evident in the mouth. Conversely, periodontal diseases can affect other parts of the body, such as the cardiovascular system.

"We were also finding that gender-based medicine is very important — women's hearts are different, our brains are different, the amount of medication we need is different." She has incorporated these issues into her "Seminars on Women's Health," delivering courses with titles such as "Women and Heart Disease," "Women's Oral Health Issues" and "Immunology and Periodontal Disease."

Goldie was 1997–98 president of the American Dental Hygienists' Association (ADHA) and is currently vice president of the International Federation of Dental Hygienists. Last year, she also became a Fellow of the California Health Care Foundation's Health Care Leadership Program, which takes 30 clinicians each year and trains them for larger health-care roles, such as administration and advocacy. The 180 physicians, nurses, pharmacists and other health-care Fellows so far include only five dentists — and Goldie, the sole dental hygienist.

"Today's hygienists are the primary gatekeepers for their patients' oral health," announces the *Modern Hygienist* website. Goldie agrees wholeheartedly: "As the number of dentists graduating decreases and number of dental hygienists increases, preventive oral health care must be delivered by somebody, and dental hygienists are perfect for this role."

California's "less restrictive supervision laws" allow dental hygienists to staff areas with too few dentists, performing preventive care and even some treatment. "Nationally," Goldie notes, "most dental hygienists work in a dental office under direct or indirect supervision of a dentist. In California, we have

the designation of Registered Dental Hygienist in Alternative Practice (RDHAP)," which requires a bachelor's degree and enrollment in a certification program. RDHAP's can work in settings such as public health centers or nursing homes without supervision, similar to nurse practitioners in a medical setting.

The ADHA is working with the U.S. Department of Education and other national groups, she adds, to institute a national extension of the dental hygienist designation, "something like 'advanced dental hygiene practitioner,'" who would work primarily with children in areas where standard dental care is unavailable.

Goldie, recipient of the 1999 Penn Dental Medicine Dental Hygiene Alumni Special Achievement Award, has been in clinical practice for over 35 years, working with some patients she's seen since 1974. "I still like to practice clinical hygiene, and I wish I had more time for it, but that part of my career is waning." For her and other dental hygienists, however, their wider careers are waxing full.



Maria Perno Goldie (DH'71)

Alumni Gatherings

Throughout the fall and winter, Penn Dental Medicine alumni gathered at events throughout the country. Along with the highlights presented here, you can view additional photos from these events by visiting the "Alumni News" section of the Penn Dental Medicine web site at www.dental.upenn.edu/alumni/news/index.html.



< American Academy of Periodontology Alumni Reception

Penn Dental Medicine held a reception on September 18, 2006, at the San Diego Marriott Hotel & Marina for alumni attending the American Academy of Periodontology Annual Meeting. Hosted by Dr. Joseph P. Fiorellini, Chair, Department of Periodontics, the reception helped to reconnect 50 alumni and their guests to Penn Dental Medicine and each other.

1 Left to right: Patricia A. Kissel (D'78, GD'83), David Michael Ludwig (GD'91), and Manuel H. Marks (GD'65).



2 Left to right: Tomoyuki Kaneko, Akemi Kaneko, and Luis J. Fujimoto (D'90, GD'93).

American Association of Oral and Maxillofacial Surgeons Annual Meeting >

For the first time in several years, a reception was held for alumni attending the American Association of Oral and Maxillofacial Surgeons Annual Meeting. Hosted by Dr. Peter D. Quinn (D'74, GD'78), Chair, Department of Oral and Maxillofacial Surgery, 60 alumni and their guests attended the reception on October 6, 2006, at the San Diego Marriott Hotel & Marina.

3 Drs. Joli C. Chou (M'04, GD'07) and Edward Balasanian (M'04, GD'07).

4 Drs. Deepak Kademani (M'00, GD'03) and Lee R. Carrasco (GD'02).

5 Future oral surgeons.

6 Left to right: Dr. Lawrence Kessler (C'66, D'70), Dr. Richard Copell (D'80), Morton Amsterdam Dean Marjorie K. Jeffcoat, and Dr. Mitchell A. Charnas (C'76, D'81).





< Yankee Dental Congress Alumni Reception

Penn Dental Medicine held a reception on January 27, 2007, at the Boston Marriott Copley Place. Hosted by Morton Amsterdam Dean Marjorie K. Jeffcoat, the reception brought together 70 alumni and their guests attending the Yankee Dental Congress.

7 Left to right: Drs. Sheryl Y. Gomes (D'94), Deborah E. Tung (D'94), Roger A. Achong (D'94), and Morton Amsterdam Dean Marjorie K. Jeffcoat.

8 Dr. and Mrs. H. Martin Deranian (D'47).

9 Morton Amsterdam Dean Marjorie K. Jeffcoat and Dr. Cory M. Resnick (C'01, D'05).

Palm Beach, Fla. — Area Alumni Reception ▼

On February 28, 2007, Dr. Umit Yigit (C'81, D'86), and his wife, Serap, hosted a reception in honor of Morton Amsterdam Dean Marjorie K. Jeffcoat for alumni living in the Palm Beach, Fla., area. More than 20 alumni and their guests gathered to reminisce about their days at Penn Dental Medicine and to visit with former classmates and friends.



10 Left to right: Serap Yigit, Morton Amsterdam Dean Marjorie K. Jeffcoat, Barbara Lerner, Dr. Umit Yigit (C'81, D'86), and Dr. Theodore R. Lerner (D'57).



Penn's Alumni Online Community has a new name — QuakerNet — and a new web site address:
www.alumniconnections.com/penn.

Membership is free! As a member, you can 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.

Join 60,000 other Penn alumni in becoming a registered QuakerNet member today.

Omicron Kappa Upsilon (OKU)

Penn Dental Medicine's Eta Chapter of the Omicron Kappa Upsilon (OKU) National Dental Honor Society would like to thank its members and encourage their continued support of this esteemed organization. Established in 1916, two years after the national society was founded, the School's OKU chapter recognizes fourth-year predoctoral and PASS students for their exemplary scholarship, character, and potential promise for the advancement of dentistry and service to humanity through nomination to the society — one of Penn Dental Medicine's highest academic honors. Annually, the chapter also presents one third-year student with the Dr. William S. Kramer Award for Excellence, which also recognizes scholarship and character. New OKU members (graduating students and a current faculty member) and honorary inductees are selected by OKU members of the faculty and are acknowledged at the annual Senior Farewell Dinner, held May 8 this year.

Dr. Behnoush Rashedi (D'98, GED'98), Assistant Professor of Restorative Dentistry-Clinician

Educator in the Department of Preventive and Restorative Sciences at Penn Dental Medicine, is the current President of the School's OKU chapter, and Dr. Arthur Steinberg, Clinical Professor in the Department of Preventive and Restorative Sciences, serves as Secretary/Treasurer.

Dr. Victor H. Frank Alumni Career Series Returns for a Second Year

The Dr. Victor H. Frank Alumni Career Series, supported by gifts in memory of Dr. Victor H. Frank (D'21) and sponsored by the Penn Dental Medicine Alumni Society, returned this past fall, inspiring and informing students. This was the second year for this popular program, which will continue to be held annually.

The purpose of the Alumni Career Series is to help students learn more about the variety of career paths for dentists as well as the opportunities and challenges facing them after they earn their DMD degrees. The session topics focused on the different dental specialties as well as general practice, and each included a faculty member, practitioner, and resident, who talked about their professional paths and answered students' questions. The session hosts included Dr. Jerald Samuel Matt (D'88) for general practice, Dr. Anna Kornbrot (D'79, GD'82) for oral surgery, Dr. Jeffrey R. Blum (D'80) for pediatrics, Dr. Susan C. Cutler (D'90, GD'92) for periodontics, Dr. Michael Marmo (D'95, GD'98) for endodontics, and Dr. LynAnn Mastaj (D'88) for orthodontics.

This year, more than 150 students attended at least one of the series' six sessions. One student remarked, "As a first-year student, I found the alumni talks to be inspiring." Another commented, "I found the speakers very informative and was sold on what they did by just hearing about how much they loved it."

For more information about the Alumni Career Series, please contact Joshua E. Liss, Director of Annual Giving and Alumni Programs, at (215) 898-3542 or lissj@dental.upenn.edu.

Alumni Society Executive Committee Welcomes New Members

At its September 13, 2006, meeting, the Penn Dental Medicine Alumni Society Executive Committee elected eight alumni to serve as new members-at-large. The newly elected members include Drs. John David Beckwith (D'87), Aaron Elkowitz (D'91, GD'93, GD'94), Howard P. Fraiman (D'91, GD'93, GD'94), Marshall J. Goldin (C'60, D'64), Christine M. Landes (D'94), Jerald Samuel Matt (D'88), Brian M. Schwab (D'06), and Robert Marc Stern (D'87). The Executive Committee, the Alumni Society's governing body, meets four times during the academic year.

Ending their terms as members-at-large are Drs. Howard E. Goldstein (D'90) and Martin D. Levin (D'72, GD'74). "We are grateful for their service and look forward to their continued involvement in the School," says Alumni Society President Dr. Tara Sexton (D'88). "At the same time, we eagerly anticipate the contributions that will be made by the new members in helping the Alumni Society keep alumni connected to the School, its students, and each other."

The Alumni Society works to advance the interests of Penn Dental Medicine and promote good fellowship among all members of the School community, while also engaging students during their time at school and as they become alumni through events such as the White Coat Ceremony, Senior Farewell, and the Alumni Career Series.

All predoctoral, postdoctoral, and dental hygiene alumni are members of the Alumni Society. Alumni interested in serving on the Executive Committee as a member-at-large, should contact Joshua E. Liss, Director of Annual Giving and Alumni Programs, at (215) 898-3542 or lissj@dental.upenn.edu.

Alumni

CLASS NOTES

1950's

Thomas T. Doran, (D'54) enjoyed seeing his "old" buddies, **David J. McKenna (D'54)** and **Thomas A. McManus, Jr. (D'54)**, this past year.

Arthur L. Wool (D'54, GD'58) is a practicing orthodontist in Wyomissing, Pa. The holder of many patents, he sold an orthodontic-manufacturing business, Wonder Wire, in 2003, having founded it on a patented archwire in 1984. In 2003, Dr. Wool began another business, Modern Arch, based upon another patented archwire. He welcomed one of his daughters, Suzanne, into the business in 2005; a respiratory therapist, she is learning the skills to assume the management of the company. Dr. Wool immensely enjoyed his tour in the Navy as a dental officer, stationed in Subic Bay, P.I., during its early construction years as the home port of the U.S. Seventh Fleet; he helped in the design and layout of the dental department at the hospital at Cubi Point as it was being built by the Navy Seabees.

Albert J. Anderson, Jr. (C'52, D'55) celebrated 50 years in Rotary this past September. He has served for 12 years on the Old Saybrook (Conn.) Board of Education. Dr. Anderson wrote, "Had a wonderful time at our 50th reunion in May 2005. Hard to believe so much time has passed."

1960's

David F. Zeyher (D'61, GD'64) has retired, but still enjoys flying and sailing on Chesapeake Bay. Dr. Zeyher recently purchased a condominium in Bradenton, Fla.



Dr. Jay P. Malmquist (left), immediate past president of the AAOMS, presents Samuel E. Molind (D'66) with the AAOMS Presidential Achievement Award.

Samuel E. Molind (D'66) was honored with the Presidential Achievement Award by the American Association of Oral and Maxillofacial Surgeons (AAOMS) during its 2006 Annual Meeting. The award recognizes those fellows and members of the AAOMS whose long-standing contributions benefit the specialty of oral and maxillofacial surgery in the areas of clinical, academic, research, or public service activities. Dr. Molind left practice in 1998 to begin Global Health Outreach (GHO), a medical, dental and surgical mission to the developing countries of the world. As the Director of GHO, Dr. Molind and his staff organize, supervise and train leaders to bring teams into developing countries around the world. He, himself, has led short-term medical missions into Vietnam, Afghanistan, Ethiopia, and other countries where countless numbers of patients have been helped.

Edward C. Cooperman (D'62) has retired after 45 years in practice. He and his wife, Sandra, have three children and eight grandchildren, six boys (ages 20, 19, 16, triplet boys 12) and two girls (ages 6 and 2). They volunteer at the Toronto Zoo and Toronto Downtown Jazz Festival. Dr. Cooperman also volunteers with the Ontario Dental Association. They are looking forward to his 45th reunion this year.

James S. Foley (D'67) was appointed a trustee of the Albion (Maine) Public Library in October 2006. Dr. Foley wrote he "is enjoying retirement to the fullest - and should have done it 20 years ago."

1970's

Raymond M. Klein (D'72) is retiring for the third time. In 2003, he sold his periodontal practice and signed up for active duty with the U.S. Air Force. Up to then, he had been serving in the Air Force Reserve. For the past four years, Dr. Klein has served as the chief of Periodontics for the Air Force's largest overseas clinic, located at Kadena Air Base in Japan.

He retired on January 29, and has accepted a position as a civilian contractor with the U.S. Army in Vilseck, Germany. At Kadena, he was instrumental in implementing digital radiology for the clinic, a \$650,000 project. Dr. Klein's work contributed to the conversion of all the service's dental facilities, a program costing \$29 million. During his time in Japan, he won two photo contests and had the opportunity to travel all over Asia. As a result, he filled up a new passport in just two years and needed to add pages for additional travel.

Bruce L. Malcolm (GR'72, GD'73) retired in 1991 after practicing in Westfield, N.J., for 40 years. He now lives in Keowee Key in western South Carolina. Dr. Malcolm enjoys golf three or four times a week, bowling, bridge, and yoga. In golf, he has shot his age 10 times and qualified for the Senior National Olympics three times.

Peter J. Robinson (GR'72, GD'73) is entering into a phased retirement in his tenth year as dean of the University of Connecticut School of Dental Medicine. In 2007, Dean Emeritus Robinson will serve as a senior policy fellow at the American Dental Education Association working on a number of issues including dental care at community health centers. In 2008, he will return to UConn to work with the School on expanding extramural clinical opportunities for residents and dental students.

Edwin C. Bartine (D'76) earned his M.A. in Bioethics from the Medical College of Wisconsin in September 2006. According to Dr. Bartine, he is "not planning to give up [his] day job as an anesthesiologist (for 19 years, the last of which has been at Gaston Memorial Hospital, a 450-bed hospital in Gastonia, N.C.) to do a career segue into bioethics teaching/consulting. Cheers!"

M. Jeffrey Morton (D'76) is president of the New Jersey Society of Periodontists, an organization of dentists who specialize in the art and science of periodontics and practice in New Jersey. Dr. Morton practices in Moorestown, N.J., and is a Clinical Assistant Professor of Periodontics at Penn Dental Medicine.

1980's

At the American Academy of Implant Dentistry's (AAID) 2006 Annual Meeting, **Marc F. Lipkin (D'80, GD'81)** was recognized as an Associate Fellow of the Academy. To qualify for Associate Fellowship, Dr. Lipkin completed 300 hours of post-doctoral instruction in implant dentistry, performed implant cases, and passed written and oral examinations. The AAID is the oldest professional organization in the U.S. dedicated to the advancement of the implant field.

Steven G. Lewis (C'76, D'81) is vice president of the Academy of Osseointegration, the world's leading dental implant organization. Dr. Lewis operates a private practice limited to prosthodontics in Cincinnati, Ohio. From 1986–1993, he was co-director of both the Maxillofacial Prosthetics Residency Program and Dental Implant Center at the University of California at Los Angeles School of Dentistry.

John C. Ford (D'82) is a member of the American College of Dentists and the International College of Dentists.

Michael Glick (GD'88) has joined A.T. Still University (ATSU) in a dual role as Associate Dean for oral-medical sciences at the College of Osteopathic Medicine-Mesa and as professor of oral medicine at the Arizona School of Dentistry & Oral



Cheryl L. Andrews (right, D'85, GD'86) wrote that she and **Elaine Bogdanoff (left, D'85, GD'86)** "couldn't attend our 20th class reunion so we decided to have one of our own. We visited in late April 2006 and had a great time, of course, remembering FFMS, Neuroanatomy, and the typed course notes that almost got the class expelled."

Health, the nation's newest and Arizona's first dental school. "I want our dental students to think of themselves as healthcare professionals first, and dentists, second," says Glick. "At ATSU, I am promoting a more medicine-oriented approach to the curriculum. Through this type of education, our dentists can play a more active role in monitoring and screening their patients for medical

conditions, so that they can refer them to physicians."

1990's

Jennifer Lee Kazemi (C'97, D'00) and **Shahin Kazemi (GD'97)** are proud to announce the birth of their daughter, Anya, on October 10, 2006. She joins her older brother, Armeen.

"THE EXCELLENCE AND LEADERSHIP OF PENN DENTAL MEDICINE ARE A DIRECT REFLECTION OF THE COMMITMENT AND ACHIEVEMENTS OF EACH AND EVERY ONE OF YOU, AND I AM MOST APPRECIATIVE OF ALL YOU DO TO SUPPORT THE SCHOOL AND ADVANCE THE DENTAL PROFESSION."

MORTON AMSTERDAM DEAN
MARJORIE K. JEFFCOAT

Every gift counts!

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 Penn Dental Medicine Annual Giving Fund. Whatever the level of your support, your gift will make a difference to our students.

For your convenience, gifts to the Penn Dental Medicine 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.
- **Transfer** appreciated securities for substantial tax benefits. You will receive an income tax deduction equal to the fair market value of the stock on the effective date of the gift, while also avoiding capital gains tax on the transfer. For transfer instructions, please contact the Office of the Treasurer at 215-898-7254 or gifts@pobox.upenn.edu. This will help to ensure both timely receipt and appropriate allocation of the gift.

For more information, please contact Joshua E. Liss, Director of Annual Giving and Alumni Programs, at 215-898-8951 or via email at lissj@dental.upenn.edu.

In Memoriam



Dr. George A. Zurkow (C'37, D'39) Remembered

Penn Dental Medicine remembers Dr. George A. Zurkow (C'37, D'39) with deep appreciation for his many years of service and support to the School. Dr. Zurkow, who died December 13, 2006 at the age of 91, was part of the School's endodontics faculty for more

than 30 years and also served for some time as an ex officio member of the School's Board of Overseers. He first joined the Department of Endodontics in 1974 as a Clinical Associate Professor, serving as Clinical Professor from 1983 to 2001 and as an Adjunct Professor since 2002. In 1987, Dr. Zurkow was also recognized for his commitment to the School, excellence in the profession of dentistry, and community involvement with the Penn Dental Medicine Alumni Award of Merit. Dr. Zurkow and his wife, Libby, have generously supported Penn Dental Medicine over the years, including a gift in 1995 to establish The George A. Zurkow Lectureship in Endodontics, which continues to fund an annual program in the Department of Endodontics.

A long-time resident of Wilmington, Delaware, Dr. Zurkow was a member of the staff of Christiana Care Health Systems for over 60 years. Dr. Zurkow was a past president of the Delaware Dental Society and the American Association of Endodontics, and he was the first dentist to be President of the Delaware Academy of Medicine. Dr. Zurkow also spearheaded the fluoridation of the Wilmington public water supply and was instrumental in establishing the Delaware Technical and Community College's program for training dental assistants. In addition, Dr. Zurkow was a Fellow of the American College of Dentists and of the International College of Dentists and a member of the Pierre Fouchard Society.

Dr. Zurkow is survived by his wife, Libby; sisters, Louise Koffsky and Gloria Rubin; son Peter and his wife Erica; daughter, Deborah Zurkow-Debenedetti and her husband Laurent; and five grandchildren.

Anne Hankin Sharp (DH'31)

New York, N.Y., May 16, 2006

Sigmund B. Lichterman (C'33, D'34)

Coconut Creek, Fla., September 10, 2006

Bernard S. Feinberg (D'36)

Richardson, Texas, December 22, 2006

G. Robinson Kaniss (DH'36)

Tucson, Ariz., August 30, 2001

Rosalie P. Leary (DH'36)

Norristown, Pa., November 22, 2006

Bernard Z. Lewine (C'34, D'36)

Allentown, Pa., December 10, 2001

Sylvia Elfant Faye (DH'39)

Cherry Hill, N.J., August 30, 2006

Hyman Lewis (D'39)

Boca Raton, Fla., December 21, 2006
Survived by son, Richard A. Lewis (C'64, D'68).

George A. Zurkow (C'37, D'39)

Wilmington, Del., December 13, 2006

Margaret B. Keach (DH'40)

Worcester, Mass., December 4, 2006

John R. Lilliendahl, Jr. (D'41)

Collinsville, Conn., November 17, 2006

William R. Kershner (D'43)

Doylestown, Pa., November 30, 2006

Rosalyn B. Lutin (DH'43)

Newtown, Conn., May 28, 2003

Nathaniel W. Price (D'43)

Pembroke Pines, Fla., November 17, 2006
Survived by son, Paul M. Price (D'77).

Anna Scull Smith (DH'43)

Chantilly, Va., November 16, 2006

Joseph Tashma (D'43)

Laguna Woods, Calif., November 29, 2006

Harold M. Kaller (D'44)

Newington, Conn., October 20, 2006

Jacob H. Ludwig, Jr. (D'44)

Bethlehem, Pa., August 11, 2006
Survived by daughters, Patricia A. Ludwig (CW'74, D'81) and Amy L. Ludwig (D'83); and son-in-law, Laurence D. Popowich (GD'81).

Jack M. Pitlick (D'44)

Rochester, N.Y., November 15, 2006

John W. Senn (D'44)

Scotia, N.Y., November 8, 2006

Gilbert H. Driesbach (D'45)

Fort Myers Beach, Fla., November 29, 2006

William C. Hudson, Jr. (D'45)

Clinton, Conn., February 21, 2007
Survived by son, James D. Hudson (D'82); and daughter-in-law, Barbara Franco Hudson (DH'82).

Dennis W. Berger (D'46)

Spring Valley, N.Y., August 7, 2005

A. Joseph Depietro (D'46)

Somers Point, N.J., November 20, 2004

Georgette Maxwell Kirk (DH'46)

Tavares, Fla., October 1, 2006

Nancy S. McDowell (DH'46)

Madison, Miss., April 1, 2006

Audrey Lee M. Baldino (DH'47)

Norristown, Pa., November 16, 2006

Wesley E. Bramnick (C'45, D'47)

Huntingdon Valley, Pa., September 14, 2006

George A. Englert (D'47)

Summit, N.J., November 9, 2006

Ruthann Moore Somers (DH'47)

Lanexa, Va., November 16, 2006

Georgine K. Wendel (DH'47)

Wilmington, Del., November 28, 2006

Tom M. Limoli (C'46, D'48)

Atlanta, Ga., September 20, 2006

Vernon G. Mason (D'48)

Manchester, Conn. November 17, 2006

John T. Kubaska (D'49)

Woonsocket, R.I., January 13, 2006

Warren M. Hamscher (D'50)

Emmaus, Pa., January 28, 2007

Sheppard M. Siegel (D'50)

Bayside, N.Y., July 28, 2004

George R. Adams (D'51)
Casa Grande, Ariz., October 5, 2000

Richard W. Turner (D'51)
Wenatchee, Wash., December 29, 2005

Seymour L. Brown (D'52, GD'57)
Allentown, Pa., July 31, 2006

Erwin P. Plotnick (GD'52)
Warminster, Pa., November 30, 2006

Fred B. Cornett (GD'53)
Pittsboro, N.C., July 22, 2006

Thomas E. Johnson (D'53)
Ormond Beach, Fla., February 17, 2007

Lawrence J. Rougeux (D'53)
Clearfield, Pa., November 28, 2006

David O. Boxwell, (D'54)
Sequim, Wash., January 4, 2007

Robert S. Kurtz (D'54)
West Palm Beach, Fla., November 29, 2006

James J. Conroy (D'55)
Andover, Mass., February 22, 2007
Survived by wife, Sylvia Sirica Conroy (DH'53).

Frank Desjardins, Jr. (C'50, D'55)
Lansdowne, Pa., September 1, 2006

Carol Kern Jones (DH'55)
Center Valley, Pa., November 1, 2006

Robert M. Rodgers (GD'56)
Portland, Maine, November 27, 2006

William B. Cleary (D'57)
Somerville, N.J., November 16, 2005

Dean A. Brainerd (D'58)
Bonita Springs, Fla., December 9, 2006

John W. Buckley (D'58)
Honesdale, Pa., April 6, 2006

Donald S. Mayes (D'58)
Elizabethtown, Pa., February 5, 2007

John D. O'Leary (GD'58)
Newark, Del., February 3, 2007
Survived by brother, J. Timothy O'Leary, Jr. (D'48); sisters, Martha O. Leary Gette (DH'54) and Kathleen O. Moylan (DH'55); brother-in-law, George P. Moylan, Jr. (C'53, D'57); and cousin, Robert J. O'Leary (D'61, GD'65).

Herbert H. Swanson (GD'58)
Waterford, Mich., December 24, 2005

Clark A. Heydon, Jr. (D'60)
Ridgefield, Conn., March 10, 2007

Joseph A. Holland (GD'60)
Brighton, Ill., November 16, 2006

Howard L. Smith (D'60)
Havertown, Pa., February 12, 2006

Alexander M. Roberts (GD'61)
Clarksburg, W.Va., November 16, 2006

Ronald M. Wasserstrom (D'63)
North Palm Beach, Fla., June 25, 2006

Frederick M. Seilkop (GD'64)
DeLand, Fla., December 27, 2006

Robert L. Nixon (D'66)
Agoura Hills, Calif., January 23, 2007

Robert M. Crawford (GD'73)
Mi Wuk Village, Calif., November 16, 2006

Alan E. Horowitz (C'69, D'73)
West Bloomfield, Mich., May 1, 2005

Charles E. Patton (GD'74)
Perry, Ga., November 17, 2006

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

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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.

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Robert Schattner Center
University of Pennsylvania
School of Dental Medicine
240 South 40th Street
Philadelphia, PA 19104-6030

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Rendering from the Penn Connects development plan of the proposed view of the Walnut Street Gateway into the Penn campus, see story, page 18.

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Calendar

O F E V E N T S

Alumni Programs & Events

May 8, 2007

Senior Farewell 2007

The Ritz-Carlton, Philadelphia
Philadelphia, Pa.
6:30–10:30 p.m.

May 11–12, 2007

Alumni Weekend 2007

Reunions for classes ending
in “2” and “7”
Philadelphia, Pa.
For information, visit
www.dental.upenn.edu/alumni2007

May 14, 2007

Class of 2007 Commencement

Irvine Auditorium
Philadelphia, Pa.
1:00 p.m.

May 19, 2007

Alumni Reception

American Association of
Orthodontists Annual Session
Sheraton Seattle Hotel, Grand
Ballroom D
Seattle, Wash.
7:30–9:30 p.m.

August 20, 2007

Class of 2011 White Coat Ceremony

Annenberg Center for the
Performing Arts
Zellerbach Theatre
Philadelphia, Pa.
6:00 p.m.

September 29, 2007

Alumni Reception

American Dental Association
Annual Session
San Francisco Marriott, Yerba Buena 11
San Francisco, Calif.
6:00–8:00 p.m.

October 19–20, 2007

Homecoming 2007/Penn Campaign Kickoff

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

Alumni Society Executive Committee 2007–08 Meetings

September 5, 2007

November 14, 2007

February 6, 2008

April 9, 2008

Robert Schattner Center
Edward B. Shils Boardroom
Philadelphia, Pa.
6:30 p.m.

Continuing Education Courses

Penn Dental Medicine will
begin a new season of continu-
ing education courses in Fall
2007. Please be sure to visit
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