# Penn Dental Journal

For the University of Pennsylvania School of Dental Medicine Community/Fall 2007



FEATURES

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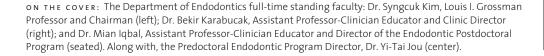
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CONSTRUCTION OF THE NEW PERIODONTAL CLINIC ON SCHEDULE FOR COMPLETION BY THE YEAR'S END, PAGE 10.

# A Special Message

his fall as Penn Dental Medicine welcomed a new incoming class and the start of a new academic year, we also welcomed a site visit team from the Commission on Dental Accreditation (CODA) as the School's predoctoral program and four of its postdoctoral programs (endodontics, orthodontics, periodontics, and periodontics/orthodontics) underwent reaccreditation. The official site visit took place September 18 to 20, and I am pleased to report that the

site team was genuinely impressed with the quality of the School's programs, as well as our faculty, staff, and students. The members of the site team went out of their way to compliment our faculty, staff, and students on their support and professionalism during the visit, and were also particularly impressed with the self-study materials that had been prepared for their review.

Although a change in CODA procedures prevents a site team from awarding commendations as in the past, the members praised the high quality of the School overall and noted several areas of achievement, including: the fiscal stability of the School, the commitment to faculty mentoring, and the availability of student research opportunities.

It was a wonderful report, but of equal importance was the tremendously beneficial self-study process undertaken over the past two years by the entire Penn

### congratulations

Dental Medicine community. Through a critical assessment of our programs and operations and how they are supporting

the School's mission and goals, we have made some important, long-lasting changes within our curriculum and clinics and enhanced ongoing review processes that will continue to strengthen the School as we move forward.

As Chair of the Accreditation Steering Committee, I want to extend my heartfelt thanks and congratulations to all the faculty, staff, students, and alumni who contributed to this successful accreditation. It truly is through your collective commitment to our School that we are able to maintain excellence in education, research, and patient care, and I look forward to continuing to work with you in advancing that mission.

Thomas P. Lollecito, Jim

DR. THOMAS SOLLECITO (D'89, GD'91) Chair, Accreditation Steering Committee Acting Dean and Associate Dean for Academic Affairs



# From Cradle to Cutting Edge

TILL FRANKER

Feature

The Birthplace of Modern Endodontics Maintains Its Leadership Role

BY JULIANA DELANY AND BETH ADAMS

#### From Cradle to Cutting Edge

Thanks to a renowned, forward thinking faculty, the birthplace of modern endodontics remains at the national and international forefront of clinical training and technology.

**Think** leadership in endodontic education, research, and clinical care — think Penn Dental Medicine. That's been the case since the specialty's earliest days, when Penn Dental Medicine alumnus and professor Dr. Louis I. Grossman (D'23, HON'78) — widely considered the father of modern endodontic practice — paved the way for the birth of the specialty. His seminal text, *Root Canal Therapy* (published in 1940 and later retitled *Endodontic Practice*) was the first major scientific work on endodontics, changing the way root canal procedures were viewed and performed. Dr. Grossman opened the door for a long line of distinguished Penn Dental Medicine alumni and faculty in endodontics, and as a result, excellence in the specialty continues to be synonymous with the School.

Today, the Department's accomplished faculty is ensuring that this reputation not only remains intact, but expands and flourishes. Under the direction of Dr. Syngcuk Kim, the Louis I. Grossman Professor and Chairman of the Department of Endodontics, the Department has established itself as the leader in the integration of the operating microscope into conventional, and particularly, surgical endodontic education and practice, drawing students and clinicians from around the world to its programs. Just this past spring at the national meeting of the American Association of Endodontists (AAE) in Philadelphia, more than 900 endodontists from across the country watched as Dr. Kim performed microsurgery via live satellite from a surgical suite at Penn Dental Medicine. It marked the first time in the history of the AAE for such a presentation, drawing great interest and reiterating the School's leadership role in advancing the latest techniques and technologies in the field.

#### An Historic Path "Against All Odds"

While endodontics has seen many rapid advances in its recent past, the specialty was relatively slow and late to form, hindered considerably by a theory on infection at odds with root canal treatment. In a 1976 *Journal of the American Dental Association* article, Dr. Grossman himself wrote: "The focal infection theory promulgated by William Hunter in 1910 gave dentistry in general, and root canal treatment in particular, a black eye from which it didn't recover for about 30 years." The theory was that microorganisms from a localized area of infection (i.e., a tooth) could be disseminated to other parts of the body and cause serious systemic disease. It led to rampant extractions and prevailed for decades. "It was against all odds that Lou Grossman made endodontics what it is today," says Dr. Kim. "He met with much objection because of the focal infection theory, but persevered and was among the first to bring a scientific foundation to endodontics that finally and permanently discredited the William Hunter Theory."

It was in 1943 that Dr. Grossman and a group of other pioneering dentists came together to establish a national organization devoted to the development and advancement of the science and clinical practice of endodontics – what became the American Association of Endodontists. However, it was not until 1965 that the American Dental Association recognized the specialty of endodontics, and it was in 1972 that Penn Dental Medicine established its Department of Endodontics (Dr. Grossman, who retired in 1972, and the division of endodontics had been part of the Department of Oral Medicine). Since its founding, the School's Department of Endodontics has been led by three Chairs - Dr. Seymour Oliet (D'53) from 1972 to 1980 (who also served as Interim Chair, 1990-1992), Dr. Leif Tronstad (GD'81) from 1980 to 1990, and Dr. Kim, who joined Penn Dental Medicine in 1992.

#### The Operating Microscope: Window to the Future

Over the past 15 years, the field of endodontics has been transformed due in large part to the operating microscope. With an emphasis on this technology, endodontics at Penn Dental Medicine entered a new era as well.

"We institutionalized the operating microscope in the endodontic department," says Dr. Kim, who made the technology an integral part of instruction when he became Chair. "Our philosophy is that it is a mandatory tool for doing the clinical procedures of our discipline, both conventional and surgical, and our students are indoctrinated in its use from day one and quickly realize the benefits in their work with patients."

With the illumination and magnification of the microscope and the accompanying high-tech instruments, endodontists at Penn Dental Medicine and elsewhere have found a new level of clinical precision. "There is no question that we are able to do a much more precise job," says Dr. Kim. "For example, the likelihood of finding a fourth canal in a four-canal molar increased from 10 to 50 percent with the microscope," adding that success rates of apical surgery have been reported in the literature to rise from about 50 percent without a microscope to 90 percent when working with one.

Pictured: Department Chair Dr. Syngcuk Kim (center); Postdoctoral Program Director Dr. Mian Iqbal (top); and Clinic Director Dr. Bekir Karabucak (bottom).

#### **High-Tech Resources, High-Level Instruction**

The level of instruction with the microscope, particularly in developing residents' skills in endodontic surgery, is a hallmark of the School's program that continues to set it apart. While all accredited postdoctoral endodontic programs are now required to teach the use of the microscope, Penn Dental Medicine maintains a unique position in the aggressive extent of integration and its commitment to providing such hightech resources for its students. All 22 chairs in the Endodontic Clinic feature a microscope and with a host of models and brands, students also benefit from gaining exposure to different brands and their different models.

"We are not endorsing any one type of microscope, what we are generally encouraging and endorsing is the use of the microscope," says Dr. Kim. "At any one time, we have five or six different brands of microscopes and always get new ones as they come to market, so we encourage our residents to rotate and get a feel for each of them," adds Dr. Samuel Kratchman (GD'91), Clinical Associate Professor of Endodontics and Assistant Director of the Postdoctoral Program. "Our residents become very clinically adept at using the latest microscopes for both conventional and endodontic surgery." By the time they graduate, postdoctoral residents have approximately 275 root canals and done 10 to 15 microsurgeries in all quadrants of the mouth.

both conventional and endodontic surgery." By the time they graduate, postdoctoral residents have treated approximately 275 root canals and done IO to 15 microsurgeries in all quadrants of the mouth. In addition to the microscope, a battery of other high tech instruments is also having a great impact on the quality of endodontic care and on instruction. "In terms of the technology, the changes in endodontics in the past five to seven years have been far greater than any in the previous 25 to 30 years," notes Dr. Kratchman. "The science was there but the technology was lagging. Now, the technology has finally caught up."

endodontic care and on instruction. "In terms of the technology, the changes in endodontics in the past five to seven years have been far greater than any in the previous 25 to 30 years," notes Dr. Kratchman. "The science was there but the technology was lagging. Now, the technology has finally caught up." Among the advances — microsurgical instruments for use in microendodontic surgery (of which Dr. Kim was a key developer), rotary instruments made of flexible nickel titanium for maneuvering the curves of the canals, warm gutta percha to fill canals three dimensionally, the electronic apex locator for precise measurements of the length of canals, new filling materials, and the list goes on. "As new instruments and materials are introduced, we make them available to our students," says Dr. Bekir Karabucak (GD'97, D'02), Assistant Professor-Clinician Educator and Clinic Director in the Department of Endodontics. "Students are offered the use of the latest technologies and materials; a unique opportunity for them to test and learn the different characteristics of each. This aspect is one of the strengths of our endodontic postgraduate program."

#### **Research: Looking at Outcomes**

On the research front, one of the Department's ongoing projects involves the development of a comprehensive patient

data base that captures all aspects of care and from which a variety of outcomes can be analyzed; to date it includes approximately 10,000 entries. "It is a great resource for examining specific techniques and materials and has been very helpful for self analysis of the Department as well," notes Dr. Mian Iqbal (D'03), Assistant Professor-Clinician Educator and Director of the Postdoctoral Program.

Recently putting the Department's research in the spotlight, a systematic review by Drs. Iqbal and Kim compared the longterm prognosis of endodontically restored teeth to single-tooth implants — the first of its kind. Sponsored by the American Academy of Osseointegration, this study, which appeared in the International Journal of Oral & Maxillofacial Implants (Volume 22, Supplement 2007), concluded that there were

no significant differences in the survival of restored endodontically treated teeth and single-tooth implants, and that the decision to treat a tooth endodontically or with implants should be based on factors other than treatment outcomes.

"Our findings have had quite an impact," says Dr. Iqbal, who has subsequently helped to write a position paper on implants for the AAE.

#### **An International Reach**

The Department's reputation for being at the forefront of the latest treatment modalities draws applicants from around the world each year to its highly competitive postdoctoral program, one of the largest in the country. Applications average IOO for the eight spots in each class and routinely at least one or two of those accepted are international students.



#### From Cradle to Cutting Edge

### "Our direction is very simple — always looking forward, monitoring all the new ways of doing things."

DR. SYNGCUK KIM

"Penn's image is an international one, and our program reflects that," notes Dr. Iqbal. "With residents from other countries, our other students learn what is going on there in terms of dentistry." It also has built the School's international presence as graduates return home to practice and teach. "We have graduates from 15 different countries, many of whom are now department chairs and professors," adds Dr. Kim. "We keep in touch, and as a result, our faculty is invited to lecture at their schools worldwide."

Ultimately, says Dr. Kim, the strength of the Department and its international reputation comes from the commitment of its faculty to the best ways of practicing and teaching endodontics. "We have a very dedicated full- and part-time faculty," he says, citing professors like Dr. Yi-Tai Jou (D'99), the Department's Predoctoral Program Director, whom students awarded an "Excellence in Teaching Award" four years in a row (2001–2005); Dr. Karabucak also received the same award this year. "We are also very fortunate to have so many alumni who come back to teach," adds Dr. Iqbal, "and who share their experience with students in their practices."

Another unique international component of the Department is a three-month residency designed specially for general dentists practicing in other countries who wish to sharpen their skills in endodontics, but cannot spend two years at Penn Dental Medicine as part of its official postdoctoral program. This program attracts 6 to 8 students each year, allowing practitioners from around the world to take Penn Dental Medicine's sophisticated brand of endodontics back to their home countries.

#### A Leader in Continuing Education

Since 1993, the Department has also opened its doors to current practitioners through its Microscope Training Center. Faculty members and postdoctoral students provide intensive two-day continuing education seminars and one-on-one hands-on training in both microendodontics and microsurgery, drawing dentists from across the country and around the world. Through lectures from Drs. Kim and Kratchman, and live surgical demonstrations, dentists learn how to incorporate the operating microscope and the latest technology into their practices. For more information on the Center, visit www.dental.upenn.edu/depts/microscopecenter.

#### Next: A New Clinic

While the latest technology is alive and well in the Department of Endodontics, the Endodontic Clinic itself is 20 years old, and in need of restoration and remodeling. A fundraising campaign for this effort has already begun, and faculty members, graduate students, and alumni are excited to bring the facility in line with the high level of teaching and research that is practiced there. The state-of-the-art clinic will feature digital radiography and chairside computers and microscopes.

Involved and communicative alumni have always been a hallmark of this Department, and Dr. Kim and his colleagues look to this accomplished international group to continue its leadership role in the growth of endodontics at Penn. In keeping with the Department's history and reputation, Dr. Kim sees its future aligned with its past: "Our direction is very simple — always looking forward, monitoring all the new ways of doing things." PDJ



#### **A HISTORY OF LEADERSHIP**

One Penn Dental Medicine alumnus and professor — Dr. Louis I. Grossman (D'23, HON'78) — was the founding force behind the formation of the American Association of Endodontists (AAE) in 1943, and this year, another con-

Dr. Louis I. Grossman, circa 1972

tinued the School's tradition of leadership in endodontics as president-elect of the Association. Dr. Louis E. Rossman (D'75, GD'77) was named president-elect during the 2007 AAE Annual Session, held April 26–28 in Philadelphia. "Endodontics has permitted me to give back not only to the institutions from which I received an education, but to the students and colleagues that represent the future of our profession as well," says Dr. Rossman. Next year, he will join these other Penn Dental Medicine alumni who have served as President of the AAE:

- · Louis I. Grossman (D'23, HON'78) 1948–49
- · George G. Stewart (D'44) 1958–59
- Edwin C. Van Valey (D'50) 1967-68
- · Israel B. Bender (D'30) 1972–73
- · George A. Zurkow (C'37, D'39) 1977-78
- Noah Chivian (D'59) 1982–83
- Stuart B. Fountain (GD'70) 1992–93
- · Jeffrey W. Hutter (D'75) 2001–02

## Feature

# **Rising Stars**

Two accomplished young researchers bring their expertise and enthusiasm to Penn Dental Medicine's basic sciences as the newest additions to the School's standing faculty.

BY JULIANA DELANY

s a boy of 10, Claude Krummenacher knew he wanted to be a scientist. Growing up in the tiny village of Champtauroz, Switzerland, "I was always trying to figure out how natural things work," he remembers. As the son of a farmer, he developed a love for animals, plants and ecology, eventually attending the University of Lausanne, Switzerland, where he developed a passion for lab work and the study of viruses.

In the northwest corner of Spain, in a seaport town called Ferrol, Fernando Segade was making an early career choice as well. "I grew up in the outdoors and always spent my summers with nature," he says. "By seventh grade, I knew I wanted to go the university to study biology." At Spain's University of Santiago de Compostela, he became fascinated by the study of how energy is obtained, used, and wasted by cells.

Both bright young scientists went on to earn their PhDs, Dr. Krummenacher's in microbiology and Dr. Segade's in biochemistry and molecular biology, and both graduated magna cum laude. Over the last decade, both gained attention for their cutting-edge research. Now, both are newly appointed members of Penn Dental Medicine's standing faculty, applying their respected research techniques and an immense body of scientific knowledge to dental education.

#### The Basic Sciences: A Foundation for Understanding

Few dental schools have their own basic sciences faculty, let alone such a solid one, says Dr. Edward Macarak (GR'73), Chairman of the Department of Anatomy and Cell Biology, and Interim Chair of Biochemistry, the two departments who have welcomed these new junior faculty members. "Among dental schools, it's quite rare to have a full-time, standing faculty in areas like microbiology and biochemistry," he explains. "Until 30 or 40 years ago, our students were taught basic sciences through Penn's medical school."

Over the years, in order to be able to tailor its basic sciences education specifically to dental students, Penn Dental Medicine has recruited its own respected basic sciences faculty, which today includes 17 full-time standing faculty. These faculty members teach courses in biochemistry, histology and embryology, anatomy, anatomy dissection, physiology, microbiology and pathology to all Penn Dental Medicine students. "Because of the strength of our basic sciences departments, our students understand not only how to do things, but why,"

PICTURED: DR. CLAUDE KRUMMENACHER, ASSISTANT PROFESSOR OF BIOCHEMISTRY (LEFT) AND DR. FERNANDO SEGADE, ASSISTANT PROFESSOR OF ANATOMY AND CELL BIOLOGY (RIGHT). says Dr. Macarak. "We are able to emphasize specifically the structures that occur in the craniofacial complex, and as a result, our students have a complete mastery of this area, from the nuts and bolts to the highly technical aspects. This level of understanding enables them to provide the best treatment plan possible for their patients."

Dr. Macarak is thrilled to have Dr. Segade, Assistant Professor of Anatomy and Cell Biology, and Dr. Krummenacher, Assistant Professor of Biochemistry, on board the standing faculty: "They are both very learned scientists, and are among the best and brightest young researchers. They add great strength to our research enterprise here."

"Among dental schools, it's quite rare to have a full-time, standing faculty in areas like microbiology and biochemistry..."

DR. EDWARD MACARAK (GR'73), CHAIRMAN OF THE DEPARTMENT OF ANATOMY AND CELL BIOLOGY

#### Dr. Fernando Segade: The Extracellular Matrix and Disease

Dr. Segade, who joined Penn Dental Medicine in July 2006, is an expert on the extracellular matrix, the material outside of cells that acts as a cement, holding tissues together and allowing cells to interact with one another. Dr. Segade came to Penn Dental Medicine from Wake Forest University School of Medicine where, since 2002, he served as Assistant Professor in the Department of Internal Medicine, Section of Endocrinology and Metabolism. Prior to that, he was in St. Louis with Washington University School of Medicine Department of Cell Biology and Physiology first as a Research Associate (1996–1997) and then as a Research Assistant Professor (1998–2002). Dr. Segade holds a MS and PhD from University of Santiago de Compostela, Santiago, Spain, awarded in 1986 and 1989, respectively.

His research in extracellular matrix began in 1996, when he joined the lab of Dr. R. Mecham, a nationally known expert in elastins, at Washington University. Their results helped characterize for the first time the function of a protein called MAGP1, and its role in lung and cardiovascular structures.

"It was a great piece of scientific work that was hugely important to the research community," says Dr. Macarak, one that led to further exploration of how genetic mutations could cause the enlargement of arteries that causes aneurysms, and in turn how the same pathology could lead to cardiovascular problems in non-genetic cases.

At Wake Forest, Dr. Segade collaborated with Dr. Donald Bowden, a noted diabetes geneticist, on the characterization of GLUTIO, a protein that belongs in the family of glucose transporters, which are located in the cell membrane and allow the transport of glucose, fructose, and other sugars to and from cells. In trying to characterize GLUTIO as a Type II diabetes susceptibility gene, the team's study concluded that GLUTIO does not transport glucose, as was previously thought. Today, Dr. Segade continues to explore the role of GLUTIO, exploring mutations in the gene that give rise to a vascular disease in which major blood vessels become twisted, eventually leading to aneurysm and stroke.

Is there a more common cardiovascular disease indicated by the same mechanism? It is this question Dr. Segade will approach at Penn Dental Medicine, still working in collaboration with Dr. Mecham and with an assistant he hopes to hire this fall. "I hope our work will eventually help people in the general population who suffer from cardiovascular disease," he says.

#### Dr. Claude Krummenacher: Viral Receptors and the Role of Nectin-1

While Dr. Krummenacher is the most recent addition to the School's standing faculty - his new appointment was effective in July of this year – he is not new to Penn Dental Medicine. After a postdoctoral fellowship at Philadelphia's prestigious Wistar Institute in 1996, Dr. Krummenacher came to Penn Dental Medicine for another fellowship and rose to Research Assistant Professor in the Department of Microbiology, a position he held for the past two years. There, working with Dr. Gary Cohen and Dr. Roselyn Eisenberg (GR'65), he continued his investigation of the herpes simplex virus (HSV) and how it finds, enters, and infects cells. When their collaborator at Northwestern University, Dr. Patricia Spear, identified the cellular receptors used by HSV to gain access to and infect the cells, he started to characterize multiple aspects of the interaction of the virus with a specific receptor called nectin-1. Intrigued by the presence of nectin-1 in most human cells, Dr. Krummenacher continues to explore its role in tissues. "While it is not an absolutely essential molecule, it is present in embryonic tissue and has something to do with neural connections," explains Dr. Krummenacher, who earned his BS in 1990 and went directly on to earn his PhD in 1995, both from the University of Lausanne in Switzerland.

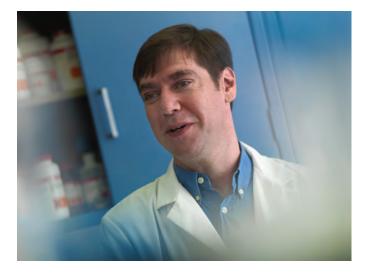


"The students are entertaining and eager, and they seem to truly appreciate receiving a basic sciences foundation."

DR. FERNANDO SEGADE, ASSISTANT PROFESSOR OF ANATOMY AND CELL BIOLOGY

What is the function of nectin-1 in human tissue? His research began to take a different turn after reading an article about a group of people living on Margarita Island, a Caribbean island off Venezuela; they exhibited a natural mutation in this gene and were unable to make normal proteins. According to the article, about 60 percent of this group exhibited developmental morphological problems in their hands and skin, as well as cleft lip and palate. Dr. Krummenacher continues to explore the role of nectin-1 as it relates to the development of the brain and the face.

His appointment to the Department of Biochemistry will give him further opportunity to explore these concepts. "Dr. Krummenacher is a very learned biochemist," says Dr. Macarak. "As a respected virologist, he is branching out through his current research, using what he knows about viruses to determine how they use normal cell receptors to get inside a cell and redirect its function to the virus' program."



## "While we benefit from the School of Medicine nearby, and the whole infrastructure of Penn, we are still able to be independent."

DR. CLAUDE KRUMMENACHER, ASSISTANT PROFESSOR OF BIOCHEMISTRY

#### **Knowledge and Perspective in the Dental Classroom**

The scientific knowledge and research skills of Drs. Segade and Krummenacher are benefiting Penn Dental Medicine students this fall as both professors bring their unique perspectives to the study of dental medicine.

Dr. Krummenacher, who is presenting several lectures in the first-year biochemistry course, is enthusiastic about his contribution to teaching. "I really like the idea of being in the classroom," he says. "This is one of the first courses that students take at Penn Dental Medicine, and I have the opportunity to help shape their experience. Biochemistry is perhaps the most basic of all the biological sciences, and there are so many aspects of it that are important to dentistry: protein and gene structures, metabolism, the biochemistry of plaques, bone and tooth formation, fluoride actions, the effect of saliva on mineralization."

In addition, adds Dr. Macarak, Dr. Krummenacher's knowledge of craniofacial deformities gained through research on nectin-1 will be of great value to his students. "Understanding the normal formation of the face depends on knowing the mechanisms that control the interactions of cells in craniofacial deformities," he explains.

Likewise, Dr. Segade is looking forward to teaching histology to Penn Dental Medicine students this fall, when he will be presenting several lectures on connective tissue, and to the spring term, when he will teach part of the physiology course. "Penn Dental Medicine students sometimes have very different backgrounds than medical students," he says, "and therefore many of them require more work in the basic sciences. This makes teaching more challenging, but quite interesting. The students are entertaining and eager, and they seem to truly appreciate receiving a basic sciences foundation."

Because the extracellular matrix is an important component of all tissues, his research experience, like Dr. Krummenacher's, will be useful to his students in many ways. "Understanding the dialogue between the extracellular matrix and the cell is a focus of many outstanding laboratories all over the world," says Dr. Macarak, "and right here at Penn Dental Medicine we have an expert on connective tissue." For example, he says, Dr. Segade's knowledge will be highly relevant in discussions of the connective tissue found in relation to the periodontal ligament.

Both professors look forward to involving students in their research through the School's summer research program and the Cellular and Molecular Biology Graduate Group.

#### "A Strong Environment for Research"

A veteran of the Penn Dental Medicine research community, Dr. Krummenacher has grown to appreciate the setting in which he works for its intimacy and its cutting-edge equipment. "It's a small group, so I know everyone in the basic sciences departments, and they are all helpful people," he says. "While we benefit from the School of Medicine nearby, and the whole infrastructure of Penn, we are still able to be independent. In addition to a very dynamic and knowledgeable faculty, we have high-tech equipment of our own here – like our optical biosensor, confocal fluorescence microscopes and a new electron microscope, so there's no waiting in line for things as there would be at a large medical school."

Dr. Segade, who is new to the School, already concurs: "This is a very high-level institution, and the research being done here reflects that," he says. "It is a very good place to be." **PD**J





#### New Periodontal Clinic on Schedule for Completion by Year's End

The New Year will bring a new stateof-the-art clinic for Penn Dental Medicine. Construction of the School's Walter Cohen and Morton Amsterdam Periodontal Clinic is on schedule for completion by the close of December and will be fully outfitted and operational in early January. Work began in June and the transformation and expansion of this clinical space has proceeded smoothly.

While situated in the same location as the old periodontic clinic (the first floor of the Evans Building), the space is being entirely reconfigured and expanded — at 4,600-square feet, it will be 600 square feet larger than the former clinic. The new facility will include 18 operatories, three surgical suites, a recovery room, and state-of-the-art digital radiography. Among the special features will be a surgical suite specially outfitted for transmitting case demonstrations live to the classroom; cameras will be installed in the ceiling and the Dr. Joseph Fiorellini, Professor and Chair of the Department of Periodontics, checks progress of the new periodontal clinic, which will feature 18 operatories.

operating microscope so cases can be observed in lecture spaces within the School. The clinic also will have a stateof-the-art student laboratory as well as an office for postdoctoral residents to treatment plan and a locker room for faculty and staff.

"The faculty, residents, and staff are looking forward with intense anticipation to the new clinic," says Dr. Joseph Fiorellini, Professor and Chair of the Department of Periodontics. "With state-of-the-art technology and space, patient care and teaching will be enhanced."

This new facility is the next phase of the School's current Capital Improvement Plan, which also includes plans for renovating the Main Clinic and Endodontic Clinic.

#### **School Holds Research Retreat**

On June 22, Penn Dental Medicine held its second annual research retreat at the Gregg Conference Center at The American College in Bryn Mawr, Pa., where more than 70 faculty members, research postdoctoral fellows, and fulltime graduate students gathered to share information and ideas about their individual research interests and activities.

This year's keynote speaker was Dr. Daniel E. Morse, Professor of Molecular Genetics and Biochemistry at the University of California, Santa Barbara and Director of the Institute for Collaborative Biotechnologies, a joint program of UCSB, MIT, and Caltech. Dr. Morse presented his research on Lessons from Biomineralization: New Routes to Novel Materials Inspired by Biological Mechanisms of Nanofabrication.

The retreat program of basic and clinical science presenters is developed by the School's Research Strategic Planning Committee from abstracts submitted by Penn Dental Medicine faculty members. This year's basic science topics included issues relating to tooth development and bone formation, regulatory mechanisms of inflammation, and HIV infection. The basic science presenters included Dr. Sherrill Adams, Professor of Biochemistry, Intersection of signaling by T3, retinoids, and BMPs during endochondral bone formation; Dr. Hydar Ali, Associate Professor of Pathology, Regulation of Toll-like receptor (TLR) functions in mast cells; Dr. Carolyn Gibson, Professor of Anatomy and Cell Biology, Two amelogenin proteins partially rescue the amelogenin null enamel phenotype; and Dr. Claude Krummenacher, Assistant Professor of Biochemistry, Conformation of the HSV gD N-terminus in relation to HVEM and nectin-1 binding. (continued on page 11)

#### **Congratulations Class of 2007**

Commencement for the Class of 2007 - the 129th class to graduate from Penn Dental Medicine – was held on May 14, conferring 134 DMD degrees. The University's historic Irvine Auditorium once again played host to this special ceremony, which included remarks by Morton Amsterdam Dean Marjorie Jeffcoat, Associate Dean for Academic Affairs Dr. Thomas P. Sollecito (D'89, GD'91), and Class President Joe Moon (D'07). Dr. Howard M. Rosenberg (GED'74), Associate Professor of Pediatric Dentistry-Clinician Educator, performed the invocation and Dr. Bruce J. Shenker, Associate Dean for Research, assisted in the presentation of diplomas. The keynote address featured Dr. Lawrence J. DeLucas, Director of the Center for Biophysical Sciences and Engineering at the University of Alabama at Birmingham, who flew on the Space Shuttle in 1992.

In honor of the School and to mark their graduation, the class made a parting gift to the Penn Dental Medicine library. "We would like to offer a warm thank you from the Dental School Library to the Class of 2007 for their gift," says Pat Heller, Penn Dental Medicine Librarian. "The entire dental community is appreciative of their thoughtfulness and generosity." The Library has used the funds to purchase a new edition of the *Textbook and Color Atlas of Traumatic Injuries to the Teeth* by J.O. Andreasen, 4th edition, 2007.

The clinical presentations featured studies on the use of bisphosphonates, periodontal disease, and the pharmacology of anesthesia. The presenters included Dr. Andres Pinto (D'99, GD'0I, GR'07), Assistant Professor of Oral Medicine; *Reversal of soft-tissue anesthesia by an*  $\alpha$ *-adrenergic blocker*; Dr. David Stanton (D'88, M'92, GD'95), Associate Professor of Oral Surgery/ Pharmacology, Surgical management of



Members of the Class of 2007 in the processional across campus on commencement day.

Since graduation, these most recent alumni have been pursuing a variety of fields. The class's self-reported plans included the following:

| Advanced Education in General Dentistry/ |    |
|--|----|
| General Practice Residency               | 48 |
| Armed Services                           | 7  |
| Endodontics Residency                    | 2  |
| Oral & Maxillofacial Surgery Residency   | 2  |
|  |    |

**Oral Medicine Residency** 2 Orthodontics Residency 8 Pedodontics Residency 11 Periodontics (includes Perio and 3 Perio/Pros) Residency **Private Practice** 44 **Prosthodontics Residency** 2 **Public Health** 1 Undecided 1 Unreported 1

bisphosphonate induced osteonecrosis of the jaws; and Dr. Robert Vanarsdall (GD'72), Professor and Chair of the Department of Orthodontics, *Periodontal outcome* on unerupted maxillary canines after apically positioned flaps.

"The goals of the retreat are to encourage further collaborations on research projects between members of the basic and clinical sciences and to facilitate feedback from colleagues," says Dr. Bruce Shenker, Associate Dean for Research and Professor and Chair of Pathology. "We intend to continue this event each year to advance the research activities at Penn Dental Medicine." Next year's retreat will be held on Friday, June 20, 2008 at the ACE Conference Center in Lafayette Hill, Pa.

#### School, President Amy Gutmann Welcome Class of 2011 with White Coat Ceremony

Penn Dental Medicine and University President Amy Gutmann joined in welcoming a new first-year class to the School with Penn Dental Medicine's annual White Coat Ceremony. Held August 20 at the Zellerbach Theatre in the University of Pennsylvania's Annenberg Center, the event drew more than 400 family, friends, alumni, faculty, and staff, who gathered to celebrate with the Class of 2011 as they began their study of dental medicine.

Sponsored by the Penn Dental Medicine Alumni Society, this annual tradition, now in its fourth year, holds symbolic significance for the incoming class as they declare their commitment to assume the responsibilities and obligations of the dental profession.



The 115-member Class of 2011, which includes 53 men and 62 women, has the highest overall GPA in the School's history.

Addressing the students, President Gutmann noted: "I ask you to accept the single greatest challenge that captures the spirit of this wonderful white coat ceremony. No matter how much you learn from your faculty and fellow students, be sure to learn all the more from your patients. With your growing knowledge and humane care, your patients will be your greatest teachers. Hearing their stories and learning to understand their perspectives will make each of you a better dental professional and a better person. And you will, in turn, make ours a better world."

Remarks were also presented by Acting Dean Thomas P. Sollecito (D'89, GD'91); Dr. James C. Garvey



President Amy Gutmann receives an honorary white coat from Dr. James Garvey, Associate Dean for Development and Alumni Relations.

(GRD'07), Associate Dean for Development and Alumni Relations; and Dr. William W.M. Cheung (D'81, GD'82), a University of Pennsylvania Trustee and Penn Dental Medicine Overseer, and father of Stefani Cheung, a member of the Class of 2011. Dr. D. Walter Cohen (C'47, D'50), Dean Emeritus, also spoke on the history of Penn Dental Medicine.

Members of the Penn Dental Medicine Alumni Society Executive Committee presented the white coats, along with family members of the class's legacy students. Two students in the Class of 2011 have parents who are Penn Dental Medicine alumni (see photo of legacy students, page 35). This year's 115-member class of new students, which includes 53 men and 62 women, holds the highest overall GPA average in the School's history at 3.75. Among other facts and figures, the class members hail from 25 different states and four foreign countries (Aruba, Canada, China, and Korea) and represent 34 different undergraduate majors and 76 undergraduate colleges.

## 2007 Summer Research Program Participants

Providing students with hands-on research opportunities continues to be a top priority at Penn Dental Medicine with the School's Summer Research Program now in its 27th year. Fourteen students participated in this year's twoto three-month program. Overseen by Dr. Joseph DiRienzo, Professor of Microbiology and Assistant Dean for

Student Research, the program enables students to work on a project of their choice from a selection of nearly 30 different faculty preceptors and investigations. Program participants also gain presentation experience, sharing their findings in the form of a poster presentation at the School's Oral Health Fair, held each spring. "As in prior years, the quality of the research projects as well as the level of student interest and participating investigators, is outstanding," says Dr. DiRienzo. "We are especially appreciative of the time invested by our faculty members that ensures the success of this program." The student researchers and preceptors involved in the 2007 Summer Research Program included:

- Mayuri Appareddy (D'10), Periodontal disease in pregnant women and premature birth, Dr. Marjorie Jeffcoat, Morton Amsterdam Dean and Professor of Periodontics, preceptor
- Ho-Jung Cho (D'10), Distinctions in mechanical signal transduction in limb and masticatory muscles, Dr. Elisabeth Barton, Assistant Professor in the Department of Anatomy and Cell Biology, preceptor
- Heather Desh (D'10), Muscle load and it effect on apoptosis in murine masseter, Dr. Elisabeth Barton, Assistant Professor in the Department of Anatomy and Cell Biology, preceptor
- Harrison Jo (D'10), Prevalence of human papilloma virus associated oral lesions in HIV patients: A cross-sectional study, Dr. Andres Pinto (D'99, GD'01, GR'07), Assistant Professor of Oral Medicine-Clinician Educator, preceptor
- Claire Kim (D'10), Influence of mandibular third molar extraction on human taste thresholds, Dr. Richard Doty, Director of the Clinical Smell and Taste Center in the School of Medicine, preceptor
- Zachary Nelson (D'10), Dentin matrix and mineralization in murine teeth deficient in type III collagen, Dr. Pamela Howard (GR'91), Research Associate Professor of Anatomy and Cell Biology, preceptor
- Mansi Oza (D'09), Dual regulation of mast cell function by TGF-b1, Dr. Hydar Ali, Associate Professor of Pathology, preceptor

- James Parelli (D'10), Recovery capabilities of cryopreserved irradiated orofacial bone marrow stromal stem cells, Dr. Sunday Akintoye, Assistant Professor of Oral Medicine, preceptor
- Reena Patel (D'10), The effects of DKC1 over expression on C-myc function in rat 1a fibroblasts, Dr. Faizan Alawi, Assistant Professor of Pathology, preceptor
- Mana Saraghi (D'10), Regulation of TGFbeta signaling by type III collagen, Dr. Sherrill Adams, Professor of Biochemistry, preceptor
- Nishit Shah (D'10), Role for DKC1 in C-myc-mediated cell proliferation, Dr.
  Faizan Alawi, Assistant Professor of Pathology, preceptor
- Jacquline Tome (D'10), Effect of IGF-I on masseter muscle fiber properties at the preand post-weaning transition, Dr. Elisabeth Barton, Assistant Professor in the Department of Anatomy and Cell Biology, preceptor
- Diana Tsai (D'10), Effects of the cytolethal distending toxin of Aggregatibacter actinomycetemcomitans on human endothelial cells, Dr. Joseph DiRienzo, Professor of Microbiology and Assistant Dean for Student Research, preceptor
- Maria Velasco (D'10), Comparative analysis of neuronal differentiation of orofacial and iliac crest cells, Dr. Sunday Akintoye, Assistant Professor of Oral Medicine, preceptor

#### NIDCR Summer Student Program

Also participating in research this summer was second-year student Ann Layvey (D'10). She was one of 12 students selected from dental schools throughout the country for the 2007 National Institute of Dental and Craniofacial Research (NIDCR) Summer Dental Student Award. Students participating in the program spend a minimum of eight weeks at the NIH campus in Bethesda, Md., working alongside scientists and gaining handson experience in basic or clinical research. Ms. Layvey worked with NIDCR preceptor Dr. Matthew Hoffman in the Laboratory of Cell and Developmental Biology.

#### Students Serving Community through Interdisciplinary Program

This summer, Penn Dental Medicine students continued to expand the horizons of their education beyond the clinic and into local communities during the Bridging the Gaps Community Health Internship Program. Sixteen students between their first and second year participated in the seven-week experience, which ran June 18 to August 3.

Bridging the Gaps is an interdisciplinary program that links the training of health and social service professionals with the provision of health-related service in underserved communities. Each year, approximately 180 students in the health and social service disciplines work at over 70 sites in the Philadelphia area. The program is administered by seven academic health centers in Philadelphia, Erie, and Pittsburgh. Bridging the Gaps consists of three components: the Community Health Internship Program, which operates in all locations, and the Seminar Series and Clinical Program which are unique to Philadelphia.

This summer, Kehinde Ayoola (D'10) worked at the Health Annex and Myers Recreational Center in Southwest Philadelphia. During the program, she collaborated with students from the School of Nursing and the School of Social Work, providing health education to children age 2 to 14 as part of a summer day camp.

The students used interactive activities including skits, role playing, the arts, demonstrations, discussions, and reading to teach the importance of maintaining a healthy lifestyle. Nutrition, oral health, exercise and the cardiovascular system, body and body image, and career building comprised the range of topics taught by the interns. As instructor of the dental portion, Ms. Ayoola brought in models of teeth to teach them basic tooth anatomy and conduct other activities to demonstrate the importance of maintaining good oral health. "The kids were very interested in learning about their teeth and how to keep them clean," says Ms. Ayoola. "As

dental students, we may tend to think of making a difference by clinical means, but simply helping to change someone's perspective about the importance of personal care can have a complementary positive and lasting impact."

In addition to educating the children, Ms. Ayoola also assisted with the planning and implementation of the 11th Annual Southwest Family Day Festival and Health and Safety Fair. She was responsible for administrative duties like contacting local businesses to ensure their support. The event featured 52 health care providers who administered dental screenings, monitored blood pressure, cholesterol, and other health-related services for the attendees. The afternoon also included performances by local entertainers, a raffle, and a variety of other activities.

Students in the Bridging the Gaps Program spend four days each week at their respective sites working with community members. The remaining day, students participate in curricular sessions focused on issues related to community health. The program culminated with the Bridging the Gaps Symposium, held at Drexel University on September 7. All students presented posters about their community experiences and also participated in workshops on community health topics. "Penn Dental Medicine had a strong presence at this year's Symposium," noted Dr. Joan Gluch (GR'92), Director of Community Health and faculty advisor for the students. "The students' posters reflected the unique nature of their immersion in the community and the opportunity for interdisciplinary contact with students and professionals in other fields."

"Bridging the Gaps taught me the value of collaborating with others when developing and incorporating health education programs," says Ms. Ayoola. "We have a greater responsibility to our future patients than just taking care of their teeth. It's important for us to stay involved in local outreach and health education."

#### Penn Dental Medicine SNDA Chapter Receives National Award

Penn Dental Medicine's chapter of the Student National Dental Association (SNDA) has been awarded the national title of "Small Chapter of the Year," recognized with this special honor during the joint annual conference of the SNDA and the National Dental Association (NDA), held this July in Atlanta.

The award was based on a chapter report presentation given during the conference's business meetings, a chapter scrapbook highlighting activities and events during the 2006–2007 academic year, chapter participation on the national level, and chapter collaboration on programs and events with other SNDA chapters. As part of the award, the Penn Dental Medicine SNDA also received a monetary prize to be used for chapter development. Attending the conference from the School was Michael Simontacchi-Gbologah (D'08), SNDA President; Tiffany Allen (D'08), SNDA Vice President; and Moses Ajikwaga Felli (D'08), SNDA Delegate and Academic Chair.

"Penn SNDA is very proud of this achievement and hopes to continue to serve as a leader within the Penn Dental Medicine community," says Mr. Simontacchi-Gbologah. "We would like to thank the Office of the Dean, the Office of Minority Affairs, our faculty advisor, and our alumni for their continued support throughout the year."

The NDA, the parent organization of the SNDA, is the premiere oral health organization representing ethnic minorities in dentistry. Its members are sensitive to the treatment of underserved and underaccessed populations, and its mission, since its earliest beginnings in 1913, has always been to elevate the global oral health of underserved populations and to recruit underrepresented minorities into the profession. It represents more than 12,000 minority dentists, hygienists, dental assistants, and students.

Penn SNDA chapter members and Pamela Beaty (front, center) of the School's Office of Minority Affairs.



#### School Hosts Students in Summer Mentorship Program

A group of high school students in white coats, dental masks, and safety glasses huddle around Penn Dental Medicine student Christine Sankowski (D'10) in the School's virtual reality simulation lab. The whirl of the drill captures their attention as she begins drilling the tooth of a dental mannequin, and their eyes widen in anticipation as she turns her seat over to the first in line for a try. These dentists in the making were part of the University of Pennsylvania's Summer Mentorship Program, and this summer, Penn Dental Medicine opened its doors to



Christine Sankowski (D'10) demonstrates tooth preparation in the preclinical lab.

participants, introducing them to the possibilities of a dental career.

Sponsored by the Office of the Provost and the School District of Philadelphia, the Summer Mentorship Program is a four-week immersion experience that gives traditionally underrepresented high school students exposure to a discipline in higher education. The program, which ran from July 5 to August 3, offered a choice of six areas of study, including dental medicine, education, engineering/internet technology, law, medicine, and nursing. Nine students who indicated dentistry as their highest preference spent their four weeks at Penn Dental Medicine for an in-depth introduction to the many areas of dentistry. The School's Office of Minority Affairs, under the direction of Dr. Rose Wadenya (D'97), Director of Minority Affairs, coordinated the program of activities for those students who came to the School.

Penn Dental Medicine students Adam Nusblatt (D'10), Christine Sankowski (D'10), and Michael Simontacchi-Gbolo (D'08) served as the key liaisons and guides for the participating students. "It was refreshing to see high school students interested in dentistry," says Mr. Nusblatt. "I actually enjoy what I do even more now because of their enthusiasm."

The program curriculum involved daily clinical rotations, hands-on sessions in the preclinical labs, and lectures from faculty in the areas of oral medicine, radiology, periodontics, restorative dentistry, community oral health, geriatrics, and oral surgery. Other activities included visits to the library and the Penn Museum and a PowerPoint class. As part of the program, the students were also required to complete a project and make a final presentation on their experience to all of the program participants at the closing ceremony. The students at Penn Dental Medicine developed a presentation on periodontal disease, and also showed their creative side, performing *My Teeth*, song lyrics they wrote to the tune of the Temptations' My Girl. They also demonstrated proper oral hygiene care and handed out dental supplies.

A total of 65 sophomores and juniors from 66 high schools were accepted into the program out of 450 applicants. Acceptance into the Summer Mentorship Program requires a personal essay, two letters of recommendation, a transcript, and an interview with the Director and Coordinator of their selected discipline to help determine individual ability to benefit from the program. This was the second year of the program and the first time Penn Dental Medicine participated.



"We would like to thank allDr. Thomas W. Evansof the faculty, staff, and students of the<br/>Penn community who helped this sum-<br/>mer," says Pamela Beaty, Administrative<br/>Coordinator for the Office of Minority<br/>Affairs, who managed the School's<br/>activities and program participation.Haw<br/>Evans ex<br/>Paris, w<br/>had secu-<br/>to Emp-<br/>a friend<br/>wife, the<br/>and many of them expressed interest in<br/>studying dentistry beyond the program,<br/>into higher education."Dr. Thomas W. Evans<br/>Haw<br/>Evans ex<br/>Paris, w<br/>had secu-<br/>to Emp-<br/>a friend<br/>wife, the<br/>may haw<br/>helped I

#### Thomas W. Evans Inducted to Pierre Fauchard Academy Hall of Fame

This spring, Penn Dental Medicine's first major benefactor – Dr. Thomas W. Evans (1823–1897) — was inducted into the Pierre Fauchard Academy (PFA) International Hall of Fame of Dentistry. The Academy is an international honorary dental organization that celebrates distinguished dentists, past and present, who are recognized around the world for their contributions and achievements. A plaque honoring Dr. Evans was presented to Morton Amsterdam Dean Marjorie K. Jeffcoat by Dr. Kevin Roach, Chair of the PFA Hall of Fame Committee, during Alumni Weekend 2007, and is on display in the Penn Dental Medicine Library. Penn alumnus Nicholas D. Saccone (D'44), a member of the Hall of Fame Committee, was instrumental in Evans' nomination.

Dr. Evans, the man for whom the School's Evans Building is named, spent much of his life building a prestigious dental career on the other side of the Atlantic, yet he never forgot his native West Philadelphia, leaving his fortune to create a dental institute and museum — "not inferior to any already established" — on the site of

> his family's home at 40th and Spruce streets. Dr. Evans' bequest and the resulting institute and museum would ultimately become one with the University of Pennsylvania, growing into the School of Dental Medicine we know today.

Having left America in 1847, Dr. Evans established a dental practice in Paris, where within a few short years he had secured the title of surgeon dentist to Emperor Napoleon III and became a friend and confidant to him and his wife, the Empress Eugenie. The latter may have owed Dr. Evans her life, as he helped her escape to England after the fall of the Second Empire. In addition, when Civil War raged in America and Napoleon III was trying to decide whether to recognize the Confederacy, it was Dr. Evans who persuaded him that the North would eventually win and that France should withhold its support of the South.

But Dr. Evans wasn't merely a good diplomat. He was also a skilled dentist known for particular expertise with goldfoil fillings. Among the other advances Evans brought to dentistry was the use of vulcanite rubber as a base for dentures. He also introduced Europe to the use of nitrous oxide as an anesthetic and developed orthodontic treatment procedures for "regulating" the teeth that met with widespread approval. A frequent contributor to dental literature, particularly The Dental News Letter in the United States and The Lancet in England, he also developed a full line of products, including toothbrushes, dentifrices, and a variety of mouth preparations.

For more information on the PFA and its Hall of Fame, visit www.fauchard.org/award.htm.

# On Campus

#### Dr. Edward Macarak Receives Lindback Award for Distinguished Teaching

Dr. Edward Macarak (GR'73), Professor and Chairman of Anatomy and Cell Biology and Interim Chair of the Department of Biochemistry at Penn Dental Medicine, has received one of the University of Pennsylvania's highest teaching honors - the Christian R. and Mary F. Lindback Award for Distinguished Teaching. Established in 1961, the Lindback Award recognizes eight individuals from throughout the University annually for their excellence in teaching — four within the health schools and four within the non-health schools. Dr. Macarak was honored as one of the 2007 recipients at a



University-wide ceremony held on April 23. He is the twentieth Penn Dental Medicine faculty member to receive a Lindback Award. Dr. Macarak

Dr. Edward Macarak (GR'73) first joined the Penn Dental

Medicine faculty in 1974 as an Instructor in Histology and Anatomy, advancing to Assistant Professor (1979–1985), Adjunct Associate Professor (1985–1993), and Associate Professor (1993–1999), and holding the position of Professor of Anatomy and Cell Biology since 1999. Since 1999, he has also held the appointment of Professor in the University's Department of Bioengineering. Dr. Macarak was named Chair of the School's Department of Anatomy and Cell Biology in 2002 and Interim Chair of its Department of Biochemistry in 2007.

At Penn Dental Medicine, Dr. Macarak's teaching has focused on the fields of histology, dissection, and gross anatomy. In one of his award recommendations, a colleague describes Dr. Macarak's lectures as "fascinating and provocative" and a former student adds that his instruction has been "invaluable in both my clinical and basic science research." Award winners are determined by recommendations and nominations made by faculty and students in December of each year and are selected by a committee consisting of previous award winners as well as students.

The Lindback Awards for Distinguished Teaching at the University of Pennsylvania were established through of the Christian R. and Mary F. Lindback Foundation. Christian Lindback was president and principal of Abbotts Dairies, Inc., and the Foundation established the awards at colleges and universities throughout Abbotts Dairies, Inc.'s service area in Pennsylvania, New Jersey, Maryland, Delaware, and Virginia.

## Dr. Mian Iqbal Named Director of Division of Graduate Education

Dr. Mian Iqbal (D'03), Assistant Professor-Clinician Educator of Endodontics and Director of the Postdoctoral Endodontic Program, has been named Director of the Division of Graduate Dental Education at Penn Dental Medicine. Dr. Iqbal succeeds Dr. Scott DeRossi (D'95) in this role, who left Penn Dental Medicine in July for the Medical College of Georgia School of Dentistry. Dr. Iqbal's appointment was effective as of September 1.

The Division of Graduate Dental Education encompasses the School's nine postdoctoral programs, and in conjunction with the program directors, it oversees the policies governing the School's graduate dental education, monitors the quality of the graduate programs, and sets goals for enhancing them. The Division is also responsible for compliance of all its programs to the standards established by the American Dental Association's Commission on Dental Accreditation. While much of the day-to-day administration of graduate dental study is conducted by the program directors and department

chairs responsible for particular programs, the Office of Graduate Dental Education oversees and organizes the core curriculum for graduate students and maintains and manages all graduate student records.



Dr. Mian Iqbal (D'03)

Dr. Iqbal has been part of the Penn Dental Medicine faculty since 1999 and Director of the Postdoctoral Endodontics Program since 2000.

#### **Standing Faculty Promotions**

Promotions within the School's standing faculty that have occurred since the publication of the Spring 2007 Penn Dental Journal include that of **Dr. Thomas P. Sollecito (D'89, GD'91)**. Effective July 1, Dr. Sollecito was promoted to Professor of Oral Medicine-Clinician Educator. Dr. Sollecito has been part of



Dr. Thomas Sollecito (D'89, GD'91) the School's faculty since 1993 — first serving as an Assistant Professor of Oral Medicine-Clinician Educator and then as Associate Professor-Clinician Educator from 2003 till this most recent

promotion. Since 2005, he has also served as Associate Dean for Academic Affairs, and in late July of this year, he assumed the role of Acting Dean as Morton Amsterdam Dean Marjorie Jeffcoat continues on a medical leave.

#### Dr. Eric Stoopler Leading Oral Medicine Residency Program

Effective July 1, 2007, Dr. Eric Stoopler (D'99, GD'02), Assistant Professor of Oral Medicine-Clinician Educator, was appointed Director of Penn Dental Medicine's Oral Medicine Residency Program. Dr. Stoopler, who completed his own oral medicine training at Penn Dental Medicine, has been part of the faculty in the Department of Oral Medicine since 2000. Presently, he also serves as Director of the School's Oral Diagnosis and Emergency Care Clinics and Director of the Externship Program for dental students at the Hospital of the University of Pennsylvania.

In this new role, he oversees all of the programming and administration involved with the residency — from curriculum development and scheduling of rotations to resident recruitment. The School's Oral Medicine program offers two tracks — a 24-month and 36-month option, the latter of which includes a Master of Science in Oral Biology and is designed for individuals interested in pursuing a career in academia. On average, the program accepts two new residents each year. Residents treat

patients in the

School's Oral

Medicine Clinic

and are also in-

volved in clinical

practice, consulta-

tion services, and

various departmen-

tal rotations within

the University of

Pennsylvania

Health System.



Dr. Eric Stoopler (D'99, GD'02)

"The School is known for having the premier oral medicine residency program in the country, and my goal is to help maintain that level of excellence," says Dr. Stoopler. "We have plans to expand our hospital rotations and to continue to develop the curriculum to ensure that all of our residents receive the highest level of training to become leaders in the field of Oral Medicine."

#### Omnicron Kappa Upsilon Elects New President, Selects 2007 Inductees

Dr. Uri Hangorsky, Associate Dean for Clinical Affairs and Clinical Professor of Periodontics, has been elected the new President of Penn Dental Medicine's Eta Chapter of the Omnicron Kappa Upsilon (OKU) National Dental Honor Society. "I am honored to be in a role of leadership within OKU," says Dr. Hangorsky. "My goal as president is to increase the awareness of the organization among students and faculty and maintain its prominence at the School." Dr. Arthur Steinberg, Clinical Professor of Restorative Dentistry, was re-elected as Secretary/Treasurer.

OKU is a National Dental Honor Society established to promote and recognize scholarship and character among students of dentistry. Each year, the society receives a list of at least the upper 20 percent of the graduating class. From this list, a number of students constituting not more than 12 percent of the entire class are selected based on scholarship, exemplary traits of character, and potential qualities of future professional growth. The 2007 OKU inductees, who were acknowledged at the annual Senior Farewell held May 8, include Wesley Barton, Michelle Bernreuther, Jahnavi Dave, Milan Doshi, Dana Kapp, Anusha Kareem, Yoon-Mi Matracia, Jennifer Mengers-O'Brien, Joe Moon, Anna Mordinson, Roselind Nam, Krishma Parikh, Padma Raman, Amber Sabitus, Justin Salisbury, Olga Volchonok, and Carina Wohl.

OKU also presents the Dr. William S. Kramer Award of Excellence to a rising junior dental student who has demonstrated scholarship, character, and the potential promise for advancement of dentistry and service to humanity. This year's recipient was Blaine Kiester (D'08). Additionally, Dr. Nasrin Sadat-Larijani (D'92), Clinical Assistant Professor of Restorative Dentistry, was recognized as a Faculty Inductee and Dr. Joan Gluch (GR'92), Director of Community Health and Adjunct Associate Professor of Preventive and Restorative Sciences, was selected as an Honorary Inductee.

#### 2007 Table Clinic Winners

Penn Dental Medicine students Matthew Anderson (D'09), Bryon Viechnicki (D'09), and Yohan Kim (D'09) took top honors for their research and poster presentations in the School's 16th Annual Oral Health Fair and Table Clinic, held April 5. Presented by the Vernon J. Brightman Student Research Society, the event highlights student research projects and carries forward a long-standing tradition of excellence in student research at the School. This year's competition, held in the Robert Schattner Center Henry Schein Atrium, featured poster presentations by 14 students to a team of faculty judges and members of the Penn Dental Medicine community.

First place went to Mr. Anderson for his project, Effect of Type III collagen on Bone Mineral Content of Mouse Metatarsals in Explant Culture, under faculty preceptor Dr. Sherrill Adams, Professor of Biochemistry. As the first place winner, he represented Penn Dental Medicine in the 2007 ADA/Dentsply Student Clinician Program, held during the 148th American Dental Association (ADA) Annual Scientific Session in San Francisco, September 27–30. Mr. Viechnicki took second place for Shear Strain Aligns Collagen Fibers and PDL Fibroblasts in *3D-Culture* with faculty preceptor Dr. Hyun-Duck Nah, Adjunct Associate Professor of Biochemistry and Research Director of Plastic and Reconstructive Surgery at University of Pennsylvania School of Medicine and Children's Hospital of Philadelphia. He will represent Penn Dental Medicine at the Hinman Student Research Symposium, to be held in Memphis, November 2-4. And, recognized as the third place winner was Mr. Kim for his project, Ideal Concentration of Modifying rubber agent to maximize the fracture toughness of composite resins, under faculty preceptor Dr. Francis Mante (D'95), Associate Professor of Restorative Dentistry in the Department of Preventive and Restorative Sciences.

## Scholarly Activity

## Awards & Achievements

Dr. Sherrill L. Adams, Professor of Biochemistry

- Received the Vernon J. Brightman Student Research Society Award in recognition of excellence in research and teaching and in appreciation of support for student research, April 2007.
- Presented the Penn Professional Women's Network Robert E.
  Davies Award for driving institutional support to foster the professional and personal lives of women at the University, April 2007.
- Selected Chair-Elect of the University Faculty Senate, May 2007.

**Dr. Alan Atlas** (D'86), Clinical Assistant Professor of Restorative Dentistry

 Presented "Applying Scientific Evidence to Clinical Protocols in Adhesive Dentistry," Saudi Dental Society International Congress Meeting, Riyadh, Saudi Arabia, January 2007.

**Dr. D. Walter Cohen** (C'47, D'50), Dean Emeritus and Professor Emeritus, Department of Periodontics

 Received an honorary degree, Carol Davilla School of Medicine, University of Bucharest, Romania for his contributions to higher education. A one-day scientific symposium was also held in his honor.

Dr. Joseph R. Greenberg (D'72,

GD'76), Clinical Professor of Periodontics

• Awarded a Fellowship in the Academy of General Dentistry, June 30. **Dr. Elliott Hersh**, Professor of Oral Surgery and Pharmacology and Director of the Division of Pharmacology and Therapeutics

• Received the Basic Science Award for excellence in teaching within the basic sciences, presented by the Penn Dental Medicine Class of 2007.

**Dr. Bekir Karabucak** (GD'97, D'02), Assistant Professor of Endodontics

 Received the Earle Bank Hoyt Award for teaching excellence by a Penn Dental Medicine graduate who is a full-time junior faculty member, presented by the Penn Dental Medicine Class of 2007.

**Dr. Nathan Kobrin**, Director of Preclinical Lab and Clinical Assistant Professor of Restorative Dentistry

• Received the Robert E. DeRevere Award for excellence in preclinical teaching by a part-time faculty member, presented by the Penn Dental Medicine Class of 2007.

**Dr. Arthur Kuperstein**, Lecturer of Oral Medicine

 Received the Senior Outstanding Teaching Award for a faculty member who has gone beyond his/her responsibilities to significantly impact the class's educational experience, presented by the Penn Dental Medicine Class of 2007.

**Dr. Rochelle Lindemeyer** (GD'79), Assistant Professor of Pediatric Dentistry-Clinician Educator

 Appeared on local NBC affiliate (WCAU) on the subject of "Early Childhood Caries" as part of the regular "Health Watch" segment, July 2007.

**Dr. Jim Lipton**, Director of Faculty and Student Career Development \* Received the Meritorious Service Award from the U.S. Public Health Service, Department of Health and Human Services, June 2007. **Dr. Farideh Madani** (GD'78, GD'80, D'84), Clinical Associate Professor of Oral Medicine

 Received the Joseph L.T. Appleton Award for excellence in teaching by a part-time faculty member, presented by the Penn Dental Medicine Class of 2007

#### Dr. David Stanton (D'88, M'92,

GD'95), Associate Professor of Oral Surgery/Pharmacology-Clinician Educator

- Received the American Board of Oral and Maxillofacial Surgery 3year Service Recognition Award, 2006.
- Received the Children's Hospital of Philadelphia 10-year Service Recognition Award, 2006.

## Selected Publications

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

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### Grants

The following grants were awarded from 1/1/2007–8/30/2007.

#### Department of Anatomy and Cell Biology

#### **MAGA: A Matricellular Protein,** 1/1/2007–12/31/2007

*Funding Source:* Washington University in St. Louis *Principal Investigator:* Dr. Fernando Segade, Assistant Professor of Anatomy and Cell Biology

#### Molecular Analysis of Collagen in Non-Compliant Bladders,

4/1/2007–3/31/2012 Funding Source: National Institutes of Health Principal Investigator: Dr. Pamela S. Howard, Research Associate Professor of Anatomy and Cell Biology

#### The Impact of Fluoride on the Rho Signaling Pathway and the Actin Cytoskeleton,

8/1/2007–7/31/2009 Funding Source: National Institutes of Health Principal Investigator: Dr. Carolyn W. Gibson, Professor of Anatomy and Cell Biology

#### Department of Biochemistry

#### Matrix Vesicle Mediated Matrix Mineralization,

7/20/2007–5/31/2012 Funding Source: National Institutes of Health Principal Investigator: Dr. Ellis E. Golub, Professor of Biochemistry

#### **Department of Oral Medicine**

Evaluation of Natural Human Interferon Alpha Administered Oromucosally in the Treatment of Oral Warts in HIV-Seropositive Subjects Receiving Combination Antiretroviral Therapy: A Phase 2 Clinical Trial.

7/9/2007 –10/8/2007 Funding Source: Amarillo Biosciences, Inc. Principal Investigator: Dr. Andres A. Pinto, Assistant Professor of Oral Medicine-Clinician Educator

#### Primary Care Obesity Prevention: One or Multiple Targets,

06/01/2007-05/31/2008 Funding Source: Children's Hospital of Philadelphia Principal Investigator: Dr. Andres A. Pinto, Assistant Professor of Oral Medicine-Clinician Educator

#### Department of Oral Surgery and Pharmacology

#### Benzocaine Gel Toothache Dose-Response Study,

2/12/2007–12/31/2007 Funding Source: Consumer Healthcare Products Assn. Principal Investigator: Dr. Elliot V. Hersh, Professor of Oral Surgery/Pharmacology

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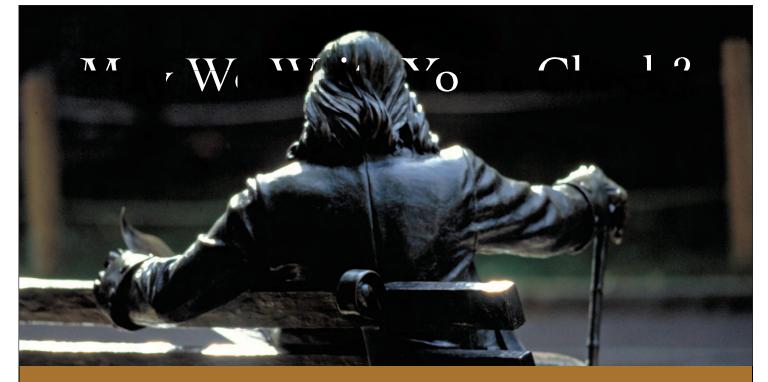
2/1/2007–2/28/2011 Funding Source: Proctor & Gamble Pharmaceuticals, Inc. Principal Investigator: Dr. Marjorie K. Jeffcoat, Morton Amsterdam Dean and Professor of Periodontics

#### Assessment of Material Gingivitis (Bleeding and Gingivitis Index) and Birth Outcomes (Weight and Gestational Age) Following Use of a Cetylpyridinium Chloride Rinse and Powered Toothbrush Regimen during Pregnancy,

5/3/2007–12/31/2008 Funding Source: Proctor & Gamble Pharmaceuticals, Inc. Principal Investigator: Dr. Marjorie K. Jeffcoat, Morton Amsterdam Dean and Professor of Periodontics

#### Assessment of Gingivitis (Bleeding and Inflammation) and Blood Sugar Control (Hemoglobin A1C) Following Use of a Cetylpyridinium Chloride Rinse and Powered Toothbrush Regimen among Individuals with Type-2 Diabetes,

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In the pages that follow are the names of those individuals who have made monetary gifts to Penn Dental Medicine between July 1, 2006 and June 30, 2007. The number of annual giving donors has increased by over 3 percent from the prior year. Dental School members in the Benjamin Franklin Society (gifts of \$2,500 or above) have also risen. I extend our deepest thanks to each of you for investing in Penn Dental Medicine today and in the future of our profession.

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This issue of the Honor Roll represents activity in Fiscal Year 2007 (July 1, 2006 through June 30, 2007).

We have made every effort to ensure the accuracy of this report. If your name has been omitted or misprinted, please accept our sincere apologies and notify the Penn Dental Medicine Office of Development and Alumni Relations at 215-898-8951.

# Alumni

#### Alumni Weekend 2007

More than 225 alumni and their guests attended Alumni Weekend 2007, May 11–12. There was much to celebrate, including reunions for classes ending in "2" or "7" and the presentation of the 2007 Alumni Award of Merit (see photo 9, page 32).

Some of this year's activities included "Swashbuckling Dentists," a presentation about Penn Dental Medicine's legends, including Thomas Evans, Zane Grey, and Doc Holliday, student-led tours of the Dental School, an open house in the virtual reality simulation lab, and the Alumni Picnic. Reunion class dinners were held again this year at the Union League of Philadelphia.

Make plans now to attend Alumni Weekend 2008, which will be held May 16–17, 2008 and celebrate reunions for classes ending in "3" and "8." For information, visit the Alumni Weekend 2008 web site *www.dental.upenn.edu/AW2008*.



1 The Penn Glee Club performed during a special breakfast for the Class of 1957 in honor of their 50th reunion.

**2** 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, was this year's Women's Forum speaker.

**3** Seated (left to right): Jeffrey A. Goodman (D'82, GED'82), Ronald J. Lascoe (D'82), James E. Clayton, Jr. (D'82), Janice R. Johnson (D'82), and James J. McDermott (D'82). Standing (left to right): K. Scott Danoff (D'82), Laura Herman Danoff (C'79, D'82), Edward C. Kassab (D'82), Anne M. Chalemin (D'82), J. Craig Alexander (D'82), and Linda E. Rigali (D'83).



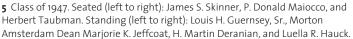
**4** Lisa D. Testa Newsome (D'87) with her daughter, Emilie, and husband, Bert, during Alumni Weekend.











**6** Class of 2002 (left to right): Jay B. Laudenbach, Joseph Spina III, A. Melissa Vargas, Gregory R. Urfrig, Gina Sajnani, Ritesh Radadia, Heather L. Zablocki, Steven H. Bailey, Shirley K. Molina, Ricky Singh, Melisande Wolff, Stacey A. Yandoli, and Deepa J. Patel.

**7** Class of 1957. Front row (left to right): Willis F. Paine, George D. Reilly, Burton Rosan, Robert M. Siegel, and Lawrence S. Harte. Middle row (left to right): Louis A. Rigali, Donald F. Hockman, Joseph Stock, William P. Hipple, Herbert M. Dietz, and Lawrence E. Krutick. Back row (left to right): Alan M. Stoneback, Leonard A. Cole, Leon H. Strohecker, and Albert Eichen.



8 Class of 1982. Front row (left to right): Elaine Torres-Melendez, Francine B. Rebhun, Laura Herman Danoff, Laurie B. Jacobs, Francine Trzeciak Cwyk, Morton Amsterdam Dean Marjorie K. Jeffcoat, James H. Doundoulakis, Robert Korwin, and Anne M. Chalemin. Middle row (left to right): Chet N. Rome, J. Craig Alexander, James D. Hudson, James E. Clayton, Jr., David Hale Cowin, Mark A. Ruggerio, Anna C. Giacalone, Gary S. Dworkin, Chester J. Palmieri, Irene Su So, Mark L. Waltzer, and Jeffrey A. Goodman. Back row (left to right): Neal B. Gittleman, James J. McDermott, Gerald L. Herman, Graeme L. Hudson, Ronald J. Lascoe, Robert H. Turchin, Stephen P. Niemczyk, Edward A. Magida, Samuel Domsky, Jeffrey I. Michelson, and Clifford S. Melnick.



**9** Morton Amsterdam Dean Marjorie K. Jeffcoat (center) and Tara Sexton (D'88), Immediate Past President, Penn Dental Medicine Alumni Society (right), with the 2007 Alumni Award of Merit recipients (left to right): Burton Rosan (D'57, GD'62), Arnold B. Porges (D'59), Cecile A. Feldman (C'80, D'84, GD'85, WG'85), I. Stephen Brown (GD'69), and Jonathan A. Ship (C'80, D'84). Not present to accept their awards: John C. Kois (D'77) and Harvey M. Rosen (D'71, M'73, FEL'79).

#### ALUMNI PROFILE: Spencer-Carl Saint-Cyr (D'97)

While dentistry may be considered simply a career or a profession to some, Dr. Spencer-Carl Saint-Cyr (D'97), newly elected President of the Penn Dental Medicine Alumni Society, prefers to see it primarily as a service. "Dentistry is all about service, and the Dental School is really a service provider — serving the dental student, serving the health care community."

When talking about his new leadership role with the Alumni Society, one of the academic services of particular importance to Dr. Saint-Cyr is the inclusion of students in the educational process. "Students at the Dental School are evaluated by faculty in various ways; I feel it is just as important for the faculty and School to be evaluated by students, individually and collectively. That's going to be my banner as President of the Alumni Society."

Dr. Saint-Cyr's overarching concern with student empowerment springs directly from his experience as a student. "I realized that the best way to engender a strong alumni society is by recruiting students at the first available contact — to give them a voice and make them feel a part of the dental profession immediately, as opposed to when they get their degree. We want to encourage the lines of communication to be as open as possible so that the students feel part of the profession from the day they're admitted."

He notes that during his time as a student at Penn Dental Medicine his professional development was greatly influenced by two mentors — the Dean at the time, Dr. Raymond Fonseca; and Dr. Robert Seltzer (D'72, GD'76) of the Department of Endodontics. Dr. Saint-Cyr, a practicing endodonist, had originally thought of pursuing oral surgery, and recalls how "Dr. Fonseca, a renowned oral surgeon, promised to take me under his wing. He was an excellent mentor."



Dr. Spencer-Carl Saint-Cyr (D'97)

In the end, a commitment to meeting the challenges of endodontics would lead him to that field. "Endodontics was my weak point in my dental experience," says Dr. Saint-Cyr, "and I decided I had to master it." His skills and interest in endodontics grew under Dr. Seltzer's guidance, and Dr. Saint-Cyr recalls with a smile, "When I later told him I planned to be an oral surgeon, he slapped me in the back of my head and said, 'You should be an endodontist.' He took me over to Smokey Joe's and convinced me."

After graduating from Penn Dental Medicine in 1997, Dr. Saint-Cyr, a native New Yorker of Haitian background, earned his certificate in endodontics at Nova Southeastern University College of Dental Medicine in Fort Lauderdale, Fla. Today, Dr. Saint-Cyr, the son of Monique and Carl Saint-Cyr of Miami, heads a thriving private practice — Infinite Endodontics, in Cherry Hill, N.J., with plans to add three new offices by the end of this year.

Dr. Saint-Cyr defines his practice as "cutting edge and state of the art." All root canals are performed under surgical microscopes, and the office is entirely digitized, including x-rays and records, and outfitted with electric handpieces for efficiency and quiet. And keeping in line with his focus on service, the office décor has been designed to create a warm, welcoming environment and put patients at ease. Describes Dr. Saint-Cyr: "It has a homey sense — like a nicely decorated family room — to disarm people's fear."

To ensure his patients are receiving service and care that meets their needs and expectations, he has established a system for ongoing patient feedback. "All of us — from the receptionist to the dental assistant to the doctors — subject ourselves to individual criticism through a survey that every patient fills out to rate our skills from zero to five," ex-

plains Dr. Saint-Cyr. "That survey is signed, dated, scanned into the system, and the original mailed to the referring doctor. That approach to evaluation really has its roots in my experience as a student."

Since his days as a student, staying connected to and giving back to Penn Dental Medicine also has been a top priority. In addition to his active role with the Alumni Society, he is training and mentoring students as a Clinical Assistant Professor of Endodontics and recently he and his wife, Stephanie, an attorney in Moorestown, N.J., made a pledge in support of the Endodontic Clinic renovation. Their gift will fund the Dr. Spencer-Carl and Stephanie P. Saint-Cyr Conference Room, planned as part of the renovation project

"We don't get through this world without a tremendous amount of help. Philanthropy is of particular importance to my wife and me. The conference room is a way of giving back to the endodontic community at Penn," he says. "We believe as African-Americans that we need to carry the torch of philanthropy to set and continue an example that you should be more than just successful, you need to give back to the community as well."

## Alumni Gatherings

During the spring and summer, Penn Dental Medicine alumni gathered at a number of special events. Along with the highlights presented here, you can view additional photos from these gatherings by visiting the "Alumni News" section of the Penn Dental Medicine web site at www.dental.upenn.edu/alumni/news/index.html.

#### American Association of Endodontists Annual Session Alumni Reception and Dinner >

More than 150 Penn Dental Medicine alumni and their guests attended a reception and dinner during the American Association of Endodontists Annual Session in Philadelphia on April 26. The event was held on the 33rd Floor of the Loews Philadelphia Hotel, located in the landmark PSFS Building. Morton Amsterdam Dean Marjorie K. Jeffcoat and Dr. Syngcuk Kim, Louis I. Grossman Professor and Chairman of the Department of Endodontics, helped to welcome alumni from across the country and around the world back to Philadelphia. The event also featured remarks from the department's past chairs, Drs. Seymour Oliet (D'53) and Leif Tronstad (GD'81).



1 Meetu R. Kohli (D'02, GD'05), Jessica S. Kim (GD'05), Melissa Banfield, Brian R. Banfield (GD'06), and Eric S. Fillmore (GD'07).



2 Eddie Tailung Tai (D'o5, GD'o7), Selina W. Chan (GD'o7), Joanna T. Ku (GD'o7), Vinne Wei-Ying Chen (GD'o6), Aimee J. Kim (D'o4, GD'o6) and Steven Wong (GD'o7).





#### < Senior Farewell 2007

The Penn Dental Medicine Alumni Society officially welcomed the Class of 2007 into its national and international community of alumni at Senior Farewell 2007. Held May 8 at The Ritz-Carlton, Philadelphia, more than 225 alumni, faculty, students, and staff gathered for the evening's festivities, which included a cocktail reception, dinner, dancing, and the presentation of teaching awards voted on by the senior class. (See Scholarly Activity Awards & Achievements, p. 18, for awards listing.)

Alumni are encouraged to save the date for Senior Farewell 2008 to be held May 13 again at The Ritz-Carlton. For more information, please contact Joshua E. Liss at 215-898-3542 or lissj@dental.upenn.edu.

**3** Student members of the Senior Farewell 2007 Planning Committee and recipients of the faculty awards: Gautam Govitrikar (D'07), Elliot V. Hersh, Beverly C. Moulic (D'07), Arthur Kuperstein, Farideh Madani (GD'78, GD'80, D'84), Bekir Karabucak (GD'97, D'02), Ankush A. Khanna (D'07, GR'07), Kurt T. Herman (D'07), Nathan B. Kobrin, Joe Moon (D'07), and Carina Wohl (D'07).

**4** Margrit M. Maggio (D'87), John David Beckwith (D'87), Benoush Rashedi (D'98, GED'98), and Tara Sexton (D'88).



#### American Association of Orthodontists Annual Session Alumni Reception

Penn Dental Medicine held a reception on May 19 at the Sheraton Seattle Hotel for alumni attending the American Association of Orthodontists Annual Session. Hosted by Robert L. Vanarsdall, Jr. (GD'72), Professor and Chair of the Department of Orthodontics, the reception helped to reconnect 100 alumni and their guests to Penn Dental Medicine and each other.

**5** Michaela McCormick (GD'o8), Antonino G. Secchi (GD'03, D'05), Kimberly A. Christie (D'06, GD'08), and Samuel King, (GD'05).

## Dental Hygiene Alumni News



#### **Dental Hygiene Reunion 2007**

Dental hygiene alumni came together on May 12 as part of Alumni Weekend 2007. A continuing education course, "Energizing Access to Care: Options in Community Collaboration," featured the following speakers: Judy Gelinas, Dr. Joan I. Gluch (GR'92), Cheryl H. Janssen, Alberta Landis, Lisa Solden Schildhorn (DH'75), and Dr. Jaclyn Gleber (DH'74).

During the luncheon and

meeting at La Terrasse Restaurant that followed the course, Sandra L. Mellinger (DH'82) was presented with the Dental Hygiene Alumni Special Achievement Award in recognition of her outstanding contributions to the growth and development of the profession of dental hygiene.





#### **Class of 2011 Alumni Legacy Students**

Penn Dental Medicine legacy students provide a vital link through the generations of the School's alumni. In the Class of 2011, the School welcomes two students who have parents who are Penn Dental Medicine alumni. Photographed at the Class of 2011 White Coat Ceremony are Dylan Bordonaro (C'07), son of David N. Bordonaro (D'83), and Stefani L. Cheung, daughter of William W. M. Cheung (D'81, GD'82). 1 Sandra L. Mellinger (DH'82, left) receives the Dental Hygiene Alumni Special Achievement Award from Dr. Jaclyn Gleber (DH'74), president of the Penn Dental Medicine Dental Hygiene Alumni Association.

2 From the floor to the top of the stairs: Dr. Jaclyn Gleber (DH'74), Sandra L. Mellinger (DH'82), Wendy Keller Harvis (DH'82), Kathleen S. McAdoo (DH'84), Colette M. Milligan (DH'82), Gail Newman (DH'73), Alberta Landis, and Judy Gelinas.

#### Alumni Attend "Prescription for Pennsylvania" Signing

On July 20, during a ceremony at the Penn School of Nursing, Pennsylvania Governor Edward G. Rendell (C'65) signed the first pieces of his Prescription for Pennsylvania health care reform plan into law. One of the bills allows dental hygienists to practice to the full extent of their education and training. "Pennsylvania lags behind many states in fully using all licensed health care providers, and these initiatives will remove barriers that have kept them from practicing to the greatest extent allowed by their education and training," the Governor said.

According to the Governor's Office, more than 1.5 million Pennsylvanians live in a federally designated dental health professional shortage area. In states with similar shortages, dental hygienists fill this void by providing routine dental care. Pennsylvania's licensing statute and regulations limit dental hygienists' independence and the functions they can perform. The new legislation allows dental hygienists to perform specific functions without the direct supervision of a dentist in order to give them greater ability to provide basic dental hygiene services in a greater variety of settings.

Attending the ceremony were Drs. Joan I. Gluch (GR'92) and Jaclyn Gleber (DH'74).

# Alumni

## 1940's

H. Martin Deranian (D'47) has written a new book, Miracle Man of the Western Front: Dr. Varaztad H. Kazanjian, Pioneer Plastic Surgeon. The biography traces Dr. Kazanjian's life from immigrating to America from Ottoman Armenia and attending Harvard Dental School, to treating maxillofacial injuries as a volunteer with the British forces during World War I and his role in helping to establish plastic surgery as a surgical specialty. Dr. Deranian is an author and lecturer specializing in the history of dentistry and the development of the Armenian American Community. For more information on the book, visit www.miraclemanofthewesternfront.com.

## 1950's

Joseph W. D'Anna (D'53) works parttime at Walgreens and his wife, Ann Lindsay D'Anna (DH'52), is a docent at the Billings Farm & Museum in Woodstock, Vt.

Frances B. Glenn (D'56) and her husband, William D. Glenn III (M'56), share a step-by-step guide for preventing and treating dental problems in children in their new book, Complete Guide for Having Children with Perfect Teeth. According to the book, parents have more control over their children's dental health than they might think, beginning as early as pregnancy. Building teeth that do not decay and instilling good dental habits in children can carry this influence well into adulthood. For more information, visit www.authorhouse.com/Bookstore/ ItemDetail~bookid~42545.aspx.

Leonard A. Cole (D'57) has written a new book, *Terror: How Israel Has Coped and What America Can Learn*, published by Indiana University Press. The book describes how Israeli society has coped with terrorism, from emergency response to long-term psychological care, with lessons for Americans and others. Dr. Cole is an adjunct professor of political science at Rutgers University in Newark, N.J. He is an expert on bioterrorism and terror medicine and author of seven books, most recently *The Anthrax Letters: A Medical Detective Story*. For more information, visit Dr. Coleman's web site at www.leonardcole.com.

## 1960's

David A. Whiston (GD'68), who practices oral and maxillofacial surgery in Falls Church, Va., was appointed vice chairman of the Board of Commissioners of the Joint Commission on Accreditation of Healthcare Organizations in December 2006. The Joint Commission evaluates and accredits nearly 15,000 health care organizations and programs in the United States. Dr. Whiston is a former president of the American Dental Association.

#### Andrew P. Galante (D'69) was hon-

ored as an Academy of General Dentistry (AGD) Master at a convocation ceremony in June during the AGD's Annual Meeting in San Diego, Calif. The AGD Mastership award signifies the achievement of clinical excellence in all areas of oral health care. The honor of Mastership in the AGD is bestowed on less that one-half of one percent of general dentists annually.

## 1970's

Steven N. Cohen (D'71) proudly reports that his family welcomed their third grandchild in April. Sydney Rokita joins Amelia Cohen, age five, and Isabelle Cohen, age two. Dr. Cohen and his wife "are delighted and enjoy being grandparents."

Susan M. Lee (D'72), who retired from private practice in 2004, has been teaching at the University of California, San Francisco School of Dentistry since 1979 in the Department of Preventive and Restorative Dental Sciences. She is currently the course director for third- and fourth-year clinical courses. Dr. Lee is very proud to announce that she is the 2007 recipient of the Oral-B/Robert W. Hutson Faculty Prize in recognition of "contributions to the teaching enterprise at UCSF School of Dentistry."

#### Arnold J. Malerman (GD'72), Clinical Associate Professor in the Penn

Dental Medicine Department of Orthodontics, was honored for 35 years of teaching at the Department's graduation ceremony in June. An orthodontist in Dresher, Pa., Dr. Malerman recently presented a three-part series of lectures on interceptive orthodontics to pedodontic residents at The Children's Hospital of Philadelphia.

At the Dental School's Board of Overseers meeting in June, Lewis E. Proffitt (D'73, WG'80) was recognized for his years of service to Penn with a letter of commendation from the Penn Alumni Awards & Resolutions Committee. Penn Alumni represents all of the University's graduates. The letter read, in part, "Your service to Penn's School of Dental Medicine as a member of the Board of Overseers and Past President of the Dental Medicine Alumni Society exhibit your great commitment to and pride for Penn. You have given generously of your time and support to the James Brister Society and the Black Alumni Society, demonstrating your commitment to people of color within the Penn community. The Dental Medicine Alumni Society has recognized your service with their Award of Merit, and we are honored to join them in doing so with this commendation."

Marc W. Heft (D'74), Professor of Oral and Maxillofacial Surgery and Diagnostic Sciences at the University of Florida College of Dentistry, was elected the 36th president of the American Association for Dental Research at the association's annual meeting in March. In addition to his appointment in the College of Dentistry, Dr. Heft holds joint appointments as a professor of neuroscience in the College of Medicine and a Professor of Clinical and Health Psychology in the College of Public Health and Health Professions. He also serves as the Director of the Claude D. Pepper Center for Research on Oral Health in Aging, and is a fellow of both the American Association for the Advancement of Science and the Gerontological Society of America.



#### Louis E. Rossman (D'75, GD'77) was elected

president-elect of the American Association of Endodontists during its 2007 Annual Session, held April 26-28 in Philadelphia. Dr. Rossman has been actively involved in the activities of the Association for years, serving as vice president from 2006-07, secretary from 2005–06, treasurer from 2004–05, and District I director from 2000–03, while also participating in the work of numerous committees including Research and

Scientific Affairs, Workforce, Public and Professional Affairs, and Strategic Planning. He also has played an integral role in planning numerous annual sessions, serving as general chair of the meeting in 2002. In addition to his private practice in Center City Philadelphia, Dr. Rossman is a clinical professor in the Penn Dental Medicine Department of Endodontics. He also serves as a member of the School's Board of Overseers. Brian S. Duchan (D'76) was installed as President of the Connecticut State Dental Association (CSDA) at its 142nd Annual Meeting in May. Dr. Duchan has been actively involved with organized dentistry as a delegate to the American Dental Association, a member of the CSDA Board of Governors, and as a past President of the Greater Norwalk Dental Society. He holds fellowships in the International College of Dentists, the American College of Dentists, the Academy of General Dentistry, and the Royal Society of Health.

#### Mitchell H. Davich (D'76) was

elected treasurer of the American Association of Endodontists during its 2007 Annual Session, held April 26–28 in Philadelphia. Dr. Davich has been active with the Association for a number of years, serving on its Board of Directors from 2001–04 and participating in the work of various committees, including Membership Insurance, Membership Benefits, Strategic Planning and Information Technology Committees. He also has served on the Journal of Endodontics Advisory Panel since 2004. Dr. Davich maintains a private practice in Morristown, N.J., and is a member of the Morristown Memorial Hospital Department of Dentistry and the Newark Beth Israel Medical Center Department of Dentistry.

#### William E. Harrell (GD'77) was a featured speaker at the 1st International Congress on 3-D Dental Imaging in July in New York City.

John C. Kois (D'77) is the new Secretary-Treasurer of the American Academy of Restorative Dentistry, which is dedicated to the ethical and scientific practice of restorative dentistry.

Linda K. Himmelberger (D'79) completed her term as President of the Pennsylvania Dental Association in April, and is now serving as the immediate past President. Dr. Himmelberger is a member of the American Dental Association Task Force on the Commission on Dental Accreditation, which is reviewing whether the Commission is meeting dentistry's accreditation needs, whether its affiliation with the U.S. Department of Education should continue, and how it can be improved. **Isaac V. Perle (D'79)**, a private practitioner in Brookline, Mass., established and serves as the President of the Jerusalem Dental Center for Children, a non-profit dental clinic that provides low-cost, high-quality dental care in Israel. Since 1985, the clinic has had over 330,000 patient visits and has treated over 100,000 patients. A 22nd anniversary gala banquet was held in June at The Westin Copley Place, Boston. For more information, visit the Jerusalem Dental Center web site at *www.jerusalemdental.org.* 

#### David A. Tecosky (D'79) was elected

president-elect of the Philadelphia County Dental Society during its 2007 Annual Business Meeting in May. The Society is a component society of the American Dental Association and the Pennsylvania Dental Association, and its members are committed to serving the oral health care needs of the people in the Greater Philadelphia Region.

This April, Governor Edward G. Rendell recognized Judith A. McFadden (D'82), owner and CEO of The Dental Health Center in Philadelphia, as an honoree in Pennsylvania's 12th annual "Best 50 Women in Business" contest. "This year's honorees are leaders who are dedicated to creating a better Pennsylvania," said Governor Rendell. Women are selected from across the state by an independent panel of judges for their dedication to Pennsylvania's business growth, professional and personal accomplishments, community involvement, and continued advocacy for women in business.

In addition to receiving an Alumni Award of Merit from the Penn Dental Medicine Alumni Society during Alumni Weekend this May, Jonathan A. Ship (C'8o, D'84) was honored by the American Academy of Oral Medicine with the highest award given in the field of oral



Linda C. Weisenfeld (D'82), photographed in Levy Building, B-13, and her family visited Penn Dental Medicine in April, as she was unable to attend her 25th reunion during Alumni Weekend in May. An orthodontist in Oradell, N.J., Dr. Weisenfeld writes, "I always have and always will hold Penn Dental Medicine dear to my heart!"

## 1980's

Hillel D. Ephros (D'80) is enjoying teaching and taking care of kids as the program director and chair of Oral and Maxillofacial Surgery at St. Joseph's Children's Hospital in Paterson, N.J. He writes, "My own kids enter high school and seventh grade respectively and continue to make life interesting and fun. Also very thankful for having met my amazing, multi-talented partner, Jennifer Lyne, whose heart of gold, like her, is a thing of beauty."

medicine during its Annual Meeting in April. He serves as Professor of Oral and Maxillofacial Pathology, Radiology & Medicine, and director of the Leonard I. Bluestone Center for Clinical Research at the New York University College of Dentistry, and a Professor of Medicine at the NYU School of Medicine. Dr. Ship received the Samuel Charles Miller Award, which recognizes an individual who has made an outstanding contribution nationally and internationally to the advancement of oral medicine. Dr. Ship's father, Dr. Irwin I. Ship (GM'65), who served as Professor of Oral Medicine at Penn

Dental Medicine and was the founder-director of the School's Clinical Research Center, is a past recipient of the same award.

Sheppard C. Webb (D'84) writes, "I am presently situated at the Penn State Heart & Vascular Institute, Division of Cardiothoracic Surgery, which is why I haven't seen classmate Joan for my checkup recently. I don't remember too much about dentistry, but we have replaced quite a few infected valves! Life is good, love to all — SCW."

#### David B. Ettinger (D'87, GD'93)

relocated to Newark, Del., in 1999 and opened the Delaware Center for Oral Surgery & Dental Implants. Dr. Ettinger and his wife, Jacki (GNU'87), have three sons, Alex, age 17, Sam, age 14, and Jake, age 10.

### 1990's

Luis J. Fujimoto (D'90, GD'93) is the president of the Northeastern Society of Periodontists, the country's largest regional periodontal society, and currently serves on the New York State Board for Dentistry. He is a past president of the Eastern Dental Society, and a past recipient of the American Dental Association Golden Apple Award, which recognizes outstanding achievement in dental society activities and excellence in leadership.

#### Joel M. Laudenbach (D'98, GD'04)

and his wife, Jessica, are excited to announce that their daughter, Addison Rose, was born on March 25 at 3:19 a.m. She weighed 6 lbs. 9.4 ounces, and came into the world at the Hospital of the University of Pennsylvania. Dr. Laudenbach has moved to Chicago where he serves as an assistant professor in the Department of Oral Medicine and Diagnostic Sciences at the University of Illinois at Chicago College of Dentistry.



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- 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.

A New York City orthodontist and former Marine, Peter J. Theodorou (GD'98, D'01, GD'01) is the director of operations for the New York City division of Marines Helping Marines, a national program through the Marine Corps League that provides care packages to wounded and recovering soldiers at major military hospitals. Dr. Theodorou is a past president of the Hellenic Dental Society of New York and serves on the New York County Dental Society's membership committee. In recognition of his active involvement in organized dentistry and the community, the New York State Dental Association honored him with the 2007 New Dentist Leadership Award. To contribute to Marines Helping Marines, please contact Dr. Theodorou at (212) 688-6188 or via email at <doctor@ newyorkcityorthodontics.com>.

#### Andrew T. Cheifetz (D'01, GED'01)

and his wife, Jennifer (C'97, GED'00) proudly announce the birth of their daughter, Layla Faryn Cheifetz, on March 8. "She was welcomed by big brother Cooper (a year and a half at the time), who smiles at the sight of his baby sister, and Gracie (dog) who woefully retreats to the bedroom, realizing there is now another child to steal the attention away from her." The happy (yet tired) family live in Amherst, N.H., where Andrew is a pediatric dentist.

Charles D. Larsen (D'01), Clinical Assistant Professor of Pediatric Dentistry at the New York University College of Dentistry (NYUCD), ran in the ING New York City Marathon last November to raise awareness of how dentists can help prevent childhood obesity. Dr. Larsen raised money as a member of the New York Road Runners Foundation "Team for Kids," which



Megan A. Whitney (D'03, GD'06) and Maxim A. Podolsky (D'03, GD'06) married on May 12. Lindsay A. Volpe (D'03) served as the maid of honor. In attendance were the following alumni: Enrico Blasi (GD'07), Stella S. Cheung (D'04), Evan R. Chugerman (D'03, GED'03), Jennifer Chugerman (D'04), Nitika Goyal (GD'07), Jason E. Holden (D'03), David H. Leung (D'03, GD'06), Samuel King

(GD'05), Gitea Kwak (GD'06), Alfonso Patron (GD'05), Daria Royzman (GD'04), Dennis S. Siddiqi (D'03), Greg Stoici (D'06), Amna Stoici (D'08), and Ioanna Xynogala (GD'04).

## 2000's

Biplab K. Malo (D'oo) married Samapti Gupta in Bangladesh, where he was born, on May 6. According to Dr. Malo, "It is wonderful to have her in my life."

Eric Wu (D'oo) recently opened his own orthodontic practice in Palo Alto, Calif.

Edward J. Lee (C'95, D'01) married Sarah Kim on April 28 in Cherry Hill, N.J. Dr. Lee practices general dentistry in Northeast Philadelphia and serves on the medical staff of Virtua West Jersey Hospital. They live in Cherry Hill, and would like to hear from other alumni friends at <edwardleedmd@gmail.com>. "Please write!"

supports youth fitness programs in underserved communities. In an article in the Spring/Summer 2007 issue of NYUCD's Global Health Nexus, Dr. Larsen said, "Dentists in the community should focus not only on oral health, but also think about the overall health of the child, including exercise and nutrition."

#### Jay B. Laudenbach (D'02, GD'06)

and his wife, Valerie are proud to announce the birth of Andrew Louis and Leah Giuliana on March 20. In addition to his private practice, Dr. Laudenbach serves as Clinical Assistant Professor in the Penn Dental Medicine Department of Periodontics

## In Memoriam

Gertrude K. Freedberg (DH'28) Bethlehem, Pa., February 28, 2007

Margaret Robinson Everhart (DH'34) Smyrna, Del., November 1, 2006

Bernhard S. Bohland (D'36) Orange City, Fla., February 14, 2007

Barbara W. Elwood (DH'36) Chenango Forks, N.Y., February 22, 2007

**Paul P. Okoniewski (D'38)** Columbia, S.C., March 8, 2007

Ralph M. Fusco (D'39) Union, N.J., March 19, 2007

Marcus Mintzer (D'39) New York, N.Y., December 21, 2006 Survived by son, Mark A. Mintzer (D'70). Jean C. Diprimio (DH'41) West Chester, Pa., April 23, 2007

Gustaaf Keesing (D'42) Rye, N.Y., March 1, 2007

Harold N. Kleine (D'43) New York, N.Y., September 22, 2003

Max G. Shively (C'43, D'44) Chambersburg, Pa., December 21, 2006 Survived by wife, Doris B. Shively (DH'44)

Jerome A. Urken (D'46) Langhorne, Pa., February 2, 2007

Carmen M. Nolla (D'48) Albuquerque, N.M., March 1, 2007

John H. Heiser (GD'50) Montreal, Mo., June 1, 2007 Malcolm A. Foster (D'51) Northford, Conn., May 23, 2007

**F. Edward Miller (D'51)** Missouri City, Texas, November 1, 2006

William F. Wein (D'52) DeWitt, N.Y., January 14, 2007

**Bert M. Brannan (D'53)** Greensboro, N.C., June 27, 2007 Survived by wife, Sally Ritchie Brannan (DH'52)

John F. Breslin (D'54) Nesquehoning, Pa., October 9, 2006

James L. Larson (D'55) Lancaster, Pa., June 13, 2007

Jacob Harris (C'55, D'58, GD'60) Chevy Chase, Md., August 14, 2007 Arthur M. Panzer (D'58) Milford, N.J., October 1, 2006

Thomas A. Cunningham (D'59) Cherry Hill, N.J., June 21, 2007

Saul H. Herman (D'63) Boca Raton, Fla., September 6, 2007

J. Saville Zamet (GD'64) London, United Kingdom, May 1, 2007

Karen Graeff Flanagan (DH'66) North Palm Beach, Fla., October 16, 2006 Survived by husband, Roger L. Flanagan (D'68).

# alumni council on admissions

 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

## 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.





alumni council on admissions – Please contact our office with any questions you may have. E. Craig Sweeten Alumni House – Philadelphia, PA 19104-6226 215.898.6888 – aca@ben.dev.upenn.edu – www.alumni.upenn.edu/aca

## **2008** Alumni Award of Merit Nominations Sought

Nominations are being sought for recipients of the 2008 Alumni Award of Merit, which will be presented during Alumni Weekend 2008, May 16–17.

The Alumni Award of Merit recognizes love for and loyalty to the School of Dental Medicine, excellence in the profession of dentistry, and community involvement. The award is given to those graduates who have maintained their ties with the School through their support of alumni activities, who have demonstrated leadership in the dental profession, and who have fostered and maintained the ideals that the School of Dental Medicine has stood for since its founding.

Members of the Alumni Society Executive Committee will select the recipients from the pool of nominees. No more than five persons per year shall be honored with the Alumni Award of Merit. Nominations are due no later than December 31, 2007.

For more information or if you have any questions, please contact Joshua E. Liss, Director of Annual Giving and Alumni Programs, at (215) 898-3542 or via email at lissj@dental.upenn.edu. For a list of previous Alumni Award of Merit recipients, please visit www.dental.upenn.edu/alumni/awards.html. Please send nomination letters to:

Joshua E. Liss Director of Annual Giving and Alumni Programs Robert Schattner Center University of Pennsylvania School of Dental Medicine 240 South 40th Street Philadelphia, PA 19104-6030

#### JOIN THE PENN ALUMNI CAREER NETWORK

The Penn Alumni Career Network (PACNet) is Penn Alumni's new and improved version of its career network through which Penn alumni can offer career advice and guidance to students and alumni with career questions.

The University is seeking alumni volunteers to provide their work expertise to current students and their Penn peers as mentors for professional development. To join or for more information on PACNet, visit www.alumni.upenn.edu/careerservices/index.html.

#### **Alumni Connections**

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

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

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Dr. Louis Grossman in the 1923 *Penn Dental Record* (yearbook), where his classmates foretold of his leadership role, writing, "we know he will win an enviable place in the dental profession." Dr. Grossman went on to be considered the father of modern endodontics. See story, page 2.

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## Calendar

#### OF EVENTS

#### Alumni Programs & Events

November 14, 2007 Penn Dental Medicine Alumni Society Executive Committee Meeting Robert Schattner Center

Philadelphia, Pa. 6:30 p.m.

November 27, 2007 Alumni Reception Greater New York Dental Meeting New York Marriott Marquis Times Square Cantor-Jolson Room, 9th Floor 5:30–7:00 p.m.

#### February 6, 2008 Penn Dental Medicine Alumni

Society Executive Committee Meeting Robert Schattner Center Philadelphia, Pa. 6:30 p.m.

#### April 9, 2008 Penn Dental Medicine Alumni Society Executive Committee Meeting

Robert Schattner Center Philadelphia, Pa. 6:30 p.m. May 13, 2008 Senior Farewell 2008 The Ritz-Carlton, Philadelphia Philadelphia, Pa. 6:30–10:30 p.m.

#### May 16-17, 2008 Alumni Weekend 2008 Reunions for classes ending in "3" and "8" Philadelphia, Pa. For information, visit www.dental.upenn.edu/AW2008

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

#### **Continuing Education Courses**

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#### November 2, 2007 Multidisciplinary Treatment of TMD: A Novel Approach

Presented by Andres Pinto, DM, and Antonino G. Secchi, DMD, MS 9 a.m.–5 p.m., 7 lecture hours Sheraton University City 36th and Chestnut Streets Philadelphia, Pa.

#### November 17, 2007

Nitrous Oxide Refresher Course Presented by Helen Giannakopoulos, DDS, MD 9 a.m.–5 p.m., 7 lecture hours Penn Dental Medicine 240 South 40th Street Philadelphia, Pa.

#### December 1, 2007

#### Infectious Endocarditis from A to Z: A Historical Perspective and Current Recommendations

Presented by Andres Pinto, DMD, MPH; Frank Silvestry, MD; and Brian Strom, MD, MPH 9 a.m.–1 p.m., 4 lecture format hours Penn Dental Medicine 240 South 40th Street Philadelphia, Pa.

#### December 3-5, 2007

**Contemporary Periodontal Prosthesis** Myron Nevins, DDS; Arnold Weisgold, DDS, FACD; Morton Amsterdam, DDS, ScD; David Garber, DMD; and Ernesto Lee, DMD 9 a.m.–5 p.m. (each day), 21 lecture format hours The Union League of Philadelphia 140 South Broad Street Philadelphia, Pa.

## December 7 and December 8, 2007

Feeling Rusty: Update Your Knowledge and Sharpen Your Skills!

Nancy Lieberman RDH, BS, and Terri McCurdy, RDH, BS Noon–7 p.m., December 7, 2007, 7 lecture hours 9 a.m.– 5 p.m., December 8, 2007, 7 hands-on lab hours The Gregg Conference Center at the American College 270 S. Bryn Mawr Ave. Bryn Mawr, Pa.

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