

A person in a white lab coat is standing in front of a large, multi-paned window, holding a book. The window is made of many small panes and is set into a light-colored wall. The person is slightly out of focus, and the background shows a view of trees and a building outside.

Penn Dental Journal

FOR THE UNIVERSITY OF PENNSYLVANIA SCHOOL OF DENTAL MEDICINE COMMUNITY / SPRING 2006

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ON THE COVER The original windows along the south side of the historic Thomas Evans Building were exposed in the construction of the new Brainerd F. Swain Orthodontic Clinic, flooding the clinic area with natural light. Situated on the second floor of the Evans Building, the new clinic nearly doubles the amount of space for orthodontic care and instruction.

A Message

FROM THE DEAN

With the Class of 2006 commencement rapidly approaching, I first want to take this opportunity to congratulate our Penn Dental Medicine seniors for their achievements and thank our faculty, staff, and alumni for all you do to support our students' success. To each member of the Class of 2006, I extend my best wishes as you enter the exciting and rewarding world of professional dentistry. More than 55 percent of the class will be pursuing postgraduate education, while others will be joining private practices, working to establish practices of their own, or entering the military. I am confident that this year's graduating class will reach their future goals with the same commitment they demonstrated here at Penn Dental Medicine.

As the Class of 2006 prepares to take its next step, the School also continues to move forward at a brisk pace. This academic year has brought key introductions and accolades within several academic departments. In the Department of Periodontics, it is a time of planning ahead and looking back as we welcome our new Chair, Dr. Joseph Fiorellini, and celebrate the 50th anniversary of periodontics and periodontal prosthesis at Penn Dental Medicine (see story, page 10). Since joining the School in October, Dr. Fiorellini has brought great energy and leadership to the Department, and I look forward to the Department continuing to build on its rich past under his direction. I hope you will join us for the 50th anniversary symposium celebration in June (see page 13).

This past year brought special recognition to the Department of Microbiology as Professor and Chair Dr. Gary Cohen received a National Institutes of Health (NIH) MERIT (Method to Extend Research in Time) Award. A MERIT Award is a highly selective grant that provides long-term support to investigators with impressive records of scientific achievement. With less than five percent of NIH-funded investigators from any field, including medicine and dentistry, holding MERIT awards, we are extremely proud of Dr. Cohen and grateful to him and his long-time collaborator Dr. Roselyn Eisenberg for the scientific contributions they are bringing to the study of the herpes and smallpox viruses (see story, page 6).

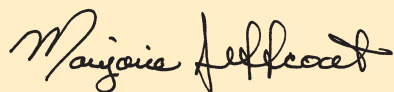
We also have much to celebrate with the Paul V. Reid Department of Orthodontics as the School continues to bring the Evans Building into the 21st Century with its clinic renovations. The Brainerd F. Swain Orthodontic Clinic opened in January, creating a state-of-the-art facility that will truly transform the study and practice of orthodontics at Penn Dental Medicine (see story, page 2). This tremendous new clinic would not have been possible without the generous support of so many alumni, and

Moving Forward

we thank you for your commitment to the future of Penn Dental Medicine through this project. We are now eagerly planning for future renovations in the Evans Building, including the Periodontic, Main, and Endodontic clinics.

Finally, an ongoing review of the School's curriculum has prompted several new offerings. This spring semester, a practice management course was added, along with an honors program for seniors, which provides study options in implant dentistry, pediatric dentistry, clinical education, or independent research. The School also introduced the Curriculum Integrated Format ADLEX licensing examination this year, with the Class of 2006 achieving high marks for their professional conduct and performance. And starting next fall, the health promotion course will be streamlined, and we will add classes on dental anatomy and cariology.

As Penn Dental Medicine continues to move forward on all fronts — education, research, and patient care — I look forward to your ongoing support and input to help guide that process. This will be particularly true as we approach the start of an exciting new capital campaign that will focus on a new Main Clinic and educational initiatives. I look forward to the many conversations we will have with all of our stakeholders on the future of this great institution. Thank you all — alumni, faculty, students, and staff — for your contributions to the School on so many levels.



MARJORIE K. JEFFCOAT, DMD
Morton Amsterdam Dean





Respecting the Past, Reflecting the Future

Penn Dental Medicine's New Orthodontic Clinic
Teams Tradition with State-of-the-Art Technology

BY JULIANA DELANY



THE FIRST THING PEOPLE NOTICE as they enter the new Brainerd F. Swain Orthodontic Clinic in the Thomas Evans Building is the front windows — not because they are new, says Morton Amsterdam Dean Marjorie K. Jeffcoat, but because they are so old. “Those beautiful windows were purposely left in place to remind us that, as we go forward into the future, we always respect the past,” she explains. “The renovation of this 100-year-old building truly combines old and new.”

The second thing people remark upon is the light. It’s everywhere, natural and clean, making the space feel open, airy, and bright, and illuminating the newly installed, state-of-the-art equipment. The new look and new technology mark an exciting evolution in the study and practice of orthodontics at Penn.

Although many at Penn Dental Medicine have sung the praises of the new Swain Orthodontic Clinic, perhaps Dr. J. Henry O’Hern (D’53, GD’55), Clinical Professor of Orthodontics and a member of the faculty for more than 50 years, says it best: “It’s a classic example of building on the achievements of the past in order to fulfill our potential — as the premier Department of Orthodontics in the United States.”

A Generous Alumni “Family” The Swain Orthodontic Clinic renovation project, which was celebrated school-wide on April 4 with a dedication ceremony and reception, was first conceived more than five years ago, when the Paul V. Reid Department of Orthodontics, under the leadership of Professor and Chairman Robert L. Vanarsdall (GD’72), initiated a fundraising campaign. After raising more than \$3 million from more than 140 alumni and friends, the Department was able to begin the renovation in July 2005. During this time, the Department’s clinical care moved to temporary quarters on the third floor of the Robert Schattner Center. The newly renovated clinic opened on time, in January of this year, to rave reviews from students, faculty, and patients alike.

“It’s a big undertaking to shift everything around like we did, but it could not have gone more smoothly,” says Dr. Vanarsdall, praising his staff, the School administration, and the many contractors involved. “This is one of the most efficient campus renovations I have ever seen.”

He is quick to point out that without the tireless fundraising efforts of alumni co-chairs Dr. O’Hern and Dr. Peter Greco (D’79, GD’84) the project could not have taken place. “They spent hours on the telephone and in person, talking to alumni about the importance of their role in this renovation,” he says. The alumni, for their part, came

through with flying colors. “There was almost no one who refused us,” he remembers. “Our alumni are like a family, and it’s a wonderful thing to have a family that keeps giving like this one does.”

In addition to significant alumni gifts, many associated with naming opportunities (see sidebar, page 5), a large portion of the donated funds came from a devoted friend of Penn Dental Medicine, Mrs. Eleanor B. Reid, wife of Dr. Paul V. Reid, a former Department Chair. Mrs. Reid left her entire estate to the Department when she passed away, and her generosity will be felt by generations to come.

Modern and Uplifting The new clinic is named for Dr. Brainerd F. Swain, a respected and beloved clinician, educator, and author from Morristown, N.J., who made a lasting contribution to Penn Dental Medicine in his 30-plus years on the faculty. Dr. Swain was a master clinician always seeking new knowledge and a great communicator who would undoubtedly be delighted with the innovative changes in his Department of Orthodontics, notes Dr. Vanarsdall.

Current faculty and staff were asked for input into the layout of the new clinic, designed by Array Healthcare Facilities Solutions of King of Prussia, Pa., and everyone is more than pleased with the results “The students are ecstatic,” reports Dr. Vanarsdall. “The new environment is just so modern, so uplifting.” In addition to students, the Department’s faculty (four standing and more than 40 adjuncts) couldn’t be happier with the changes. “We can see so many more patients, and things operate much more smoothly,” he says. “For everyone involved, it’s a pleasure just to be in the new space.”

The clinic has grown in size from 14 to 19 chairs and now features a larger, more functional waiting and reception area. (The old waiting area seated 12, while the new one can hold 30.) A new chart room, new consultation rooms, student lockers, and an oral hygiene area are just some of the other amenities the new space offers. The Ackerman Orthodontic Seminar Room, situated in the adjacent corridor, also complements the clinic resources.

As a member of the faculty since 1972, when he started as a teaching fellow, Dr. Vanarsdall remembers when things were quite different. “We started out with our patients just sitting in regular chairs with adjustable backs,” he recalls. “They were uncomfortable and the light was not at all con-

Top: With a total of 19 chairs, the clinic’s spacious design offers patients and students added privacy, while natural light creates a warm environment. Bottom: The reception and waiting area seats up to 30.

Respecting the Past, Reflecting the Future



Department Chair, Dr. Robert Vanarsdall, and a resident in the reception area.

ductive to our work. Then, in the '90s, the chairs were upgraded to a style that was pumped up and down by a foot pedal on the bottom."

Not any more. The new clinic boasts state-of-the-art DentalEZ units, the latest in dental technology, which offer a fully automated chair with instruments attached for easy reach. In addition, capabilities for digital radiography and chair-side patient charting are included in the new design, and plans call for computer technologies to be introduced in the coming months.

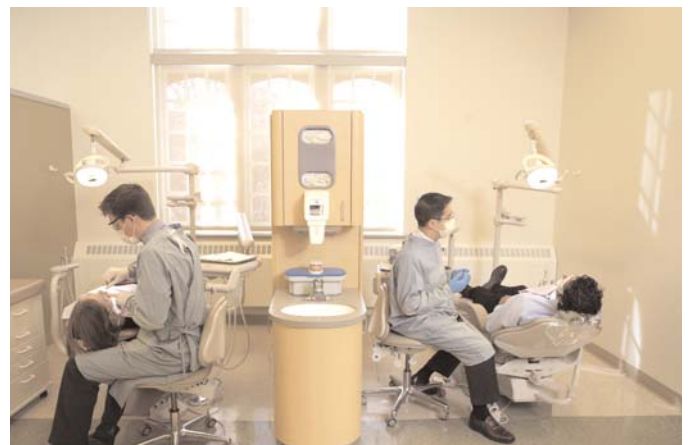
Orthodontics Makes a Difference Currently, the Reid Department of Orthodontics has a total of 16 postgraduate students at various stages of their programs. The School's predoctoral students also rotate through the clinic during their third and fourth years. With each of the residents seeing seven to eight patients a day and predoctoral students seeing patients as well, the Swain Orthodontic Clinic is a bustling place. More patients are being seen today than at any time in the history of the clinic. The patients range in age from three years to more than 90, and seek orthodontic care for many reasons. "Orthodontics is far from just aesthetics," Dr. Vanarsdall stresses, pointing out that the specialty serves more than the stereotypical teenage patient seeking a more perfect smile. "In many cases, it is important for the health of the teeth. On very young patients, we might work on structural problems such as a severely narrow upper jaw or a protruding lower jaw. In older patients, we might be doing work to prepare for tooth replacement, or dealing with temporomandibular joint problems."

In addition, the clinic takes time to treat disadvantaged patients from local schools, who are referred through the PennSmiles Program, an outreach initiative managed out of the School's Division of Community Oral Health. "Early intervention can make a big difference in the quality of life for young patients," says Dr. Vanarsdall. "Ideally, straight teeth can reduce contributing factors for periodontal disease."

School-wide Benefits for Years to Come The benefits of the Swain Orthodontic Clinic to faculty, students, and patients are many and varied: more space, more privacy, cutting-edge technology, and a pleasant and comfortable working and treatment atmosphere, to name a few.

"The impact is far-reaching," adds Dr. Chun-Hsi Chung (D'86, GD '92), Associate Professor/Clinician Educator of Orthodontics. "Orthodontic patients can be treated more efficiently and comfortably. Residents and dental students can be exposed to the new orthodontic advances and technologies, enhancing their learning experience significantly. The new clinic will also enhance the teaching experience for our faculty."

Yet the benefits extend beyond the present, to the recruitment process, notes Dr. Michael Perillo (D'93, GD'95), Clinical Assistant Professor of Orthodontics. "As we



The clinic features the latest in dental technology, including capabilities for digital radiography and chair-side patient charting.

seek out new and qualified applicants, the Swain Orthodontic Clinic will give Penn an edge in having a state-of-the-art facility compared to other programs," he says. "Penn Dental Medicine has always been one of the most sought-after programs in the country. The updated facility will enhance what we've been doing at Penn for decades."

Dr. Jerry Sklaroff, Clinical Professor of Orthodontics,

concur. "The prospective students who come here for interviews are the cream of the applicant pool. Seeing our beautiful new clinic guarantees that they will take away a positive impression of our program," he says.

A Long-term Plan The Swain Orthodontic Clinic project is the second in an ambitious series of clinic renovations planned for the historic Evans Building — each to be made possible through the generosity of the School's alumni and friends. "This important new space as well as future capital projects



The Swain Orthodontic Clinic is the second in a series of clinic renovations planned for the historic Evans Building.

identified in the School's master plan only become reality when our alumni embrace the plan," says Jim Garvey, Associate Dean for Development and Alumni Relations. "It's about the marriage between strategic vision and resources. Nothing of this magnitude can occur without strong philanthropic support and the critically important partnership between the School and its alumni. It's a simple recipe for sustained growth and improvement."

"These clinics are critical facilities, both for our students and to the neighboring West Philadelphia community that they serve," adds Thomas Freitag, Associate Dean for Finance and Administration. "The School of Dental Medicine plans to address renovations of the Main Clinic, the Periodontic Clinic, and the Endodontic Clinic within the next four to five years." Each of these projects, like the Swain Orthodontic Clinic, will be designed to modernize teaching facilities, improve access for the physically challenged, and introduce state-of-the-art technology.

With this step of the plan completed on time and on budget, the administration looks forward to continued suc-

cess in the near future. As the School moves forward, the Swain Orthodontic Clinic will provide a working example of how best to proceed.

"What has been accomplished with the Swain Orthodontic Clinic is the result of effort, self-sacrifice, determination, and vision, all with one purpose in mind — to be the best at what we do," says Dr. O'Hern. "Inside this beautiful new space, our residents will want to aim for the stars." With these words of inspiration in hand, Penn Dental Medicine is ready to get back to work. **PDJ**

Leadership Gift Donors

Penn Dental Medicine is grateful to all the donors who made possible the renovation of the Brainerd F. Swain Orthodontic Clinic. Their generosity has created a state-of-the-art environment for patient care and clinical instruction. Below are the names of those donors who made leadership gifts in support of the project and have named spaces in the clinic.

A. Bernard Ackerman (RES'67)

In honor of A. Leon Ackerman (D'24), James L. Ackerman (D'60), and Marc B. Ackerman (D'98)

Anonymous

In honor of Dr. Jerome H. Sklaroff (C'43)

Dr. and Mrs. Paul J. Batastini (GD'72)

In honor of Dr. Frank Edward Vizzi, Jr.

Frank R. Besson (D'65, GD'68)

Normand S. Boucher (GD'82)

Brendan J. Boylan (D'55, GD'57)

Robert B. Chastant (GD'78)

Jenny C. Chung (GD'79)

Patrick T. Cuzzo (GD'97)

Dr. and Mrs. Peter M. Greco (D'79, GD'84)

In honor of Mr. & Mrs. Mario D. Greco and Dr. & Mrs. John K. Koromvokis

Robert W. Kidd III (D'65)

David R. Musich, DDS

Orthodontic Class of 1973

In honor of Dr. J. Henry O'Hern, Jr. (D'53, GD'55)

Orthodontic Class of 1988

Joyce A. Perih (GD'89) and Dr. James L. Stefanelli

In memory of Simone Margaret Stefanelli

Mark S. Pollack (GD'75)

Brian A. Rinehart (GD'92)

Dr. and Mrs. Lawrence N. Rouff (D'63, GD'66)

Dr. and Mrs. David Tai-Man Shen (D'79, GD'81)

Leon H. Strohecker (D'57, GD'60)

Warren D. Woods (GD'82)

John T. Ziegler (D'55)



Feature

An Extraordinary Symbiosis

Virologists Cohen and Eisenberg Explore the Codes of Disease

BY JENNIFER BALDINO BONETT

Think Watson and Crick,

Orville and Wilbur Wright — scientific collaborators of the highest caliber — and you will begin to understand the unique professional relationship of Penn Dental Medicine's Gary H. Cohen, PhD, and Roselyn J. Eisenberg, PhD (GR'65). For the past 30 years, these widely respected leaders in their field have partnered to bring their expertise in virology and microbiology to the study of herpes viruses — and now, in an age fearing bioterrorism, to smallpox. Their lab at Penn Dental Medicine reflects an extraordinary symbiosis. Led by these two strong, colorful personalities, the lab blends rigorous scientific inquiry with supportive mentorship and an unyielding sense of natural wonder.

By turns, these basic scientists credit their remarkable working relationship to happenstance and the conviction that they are much smarter as scientists working together than alone. They speak of their early collaborations with relish and their customary banter:

Dr. Cohen: "It sort of developed that way. I was working on herpes ..."

Dr. Eisenberg: "... I was a bacteriologist."

Dr. Cohen: "I guess the herpes project got more exciting..."

Dr. Eisenberg (laughing): "... than my project."

Building a Successful Partnership Dr. Cohen, Professor and Chair of Microbiology at the School of Dental Medicine, came to Penn for his postdoctorate in virology in 1964 and knew after completing it that he had found his home at the University. He joined Penn Dental Medicine's microbiology faculty in 1967 as an Assistant Professor. Dr. Eisenberg joined the faculty as an Assistant Professor in the same department in 1969. However, it was through a mutual colleague, School of Medicine Professor Lew Pizer, that they first started to gain an interest in each others research.

"We were all young and starting out," recalls Dr. Eisenberg. "We would meet on Friday afternoons and talk about research together over a beer." The newly minted assistant professors found mutual interest in vaccine development, sparked by Dr. Cohen's work on herpes virus antigens. His goal was a vaccine against herpes simplex virus (HSV), which intrigued Dr. Eisenberg.

The scientists launched their careers at the dawn of a new era in virology: The field's legendary figures (several at Penn) had validated the concept of the virus as a comparatively straightforward way to study many biological processes. It was a breakthrough concept that Drs. Cohen and Eisenberg welcomed into their work on HSV, and later into their experiments on smallpox. Their research holds important implications for oral and general health. "Almost all human pathogens come in and out through the oral cavity, including HSV and smallpox," explains Dr. Cohen. "The oral cavity is the first line of defense, and oral health care providers need to be armed."

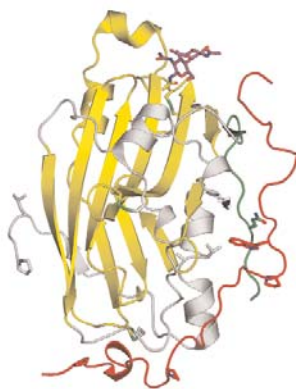
In 1978, Dr. Eisenberg moved to Penn's School of Veterinary Medicine, where she is now Professor of Microbiology with a secondary appointment at Penn Dental Medicine. In an uncommon arrangement, Drs. Cohen and

Eisenberg maintain a joint lab and offices at Penn Dental Medicine. The cross-over of viruses from animals to humans shows the prudence of this unique collaboration.

Drs. Cohen and Eisenberg published their first co-authored paper in the *Journal of General Virology* in 1977. It was on the ribonucleotide reductase of HSV, and their collaboration on this paper soon led to other studies and a career-long quest to dissect the virus and build a vaccine. Since then, this team has co-authored hundreds of papers, abstracts, and chapters on the genesis of HSV, and served on the editorial boards of major virology journals and on NIH study sections. In addition, they have been consultants for major pharmaceutical companies and both have been elected as fellows of the

American Academy of Microbiology and the American Association for the Advancement of Science.

In 2005, the NIH recognized Dr. Cohen's achievements in scientific research with its highly selective MERIT (Method to Extend Research in Time) Award. The MERIT Award grants long-term support to investigators with impressive records of scientific achievement in research areas of special importance or promise. Less than five percent of NIH-funded investigators from any field, including medicine and dentistry, hold MERIT Awards.



Structural representation of a herpes simplex virus (HSV) glycoprotein D (gD) molecule. Solving the structure of HSV gD has been a main focus of the Cohen-Eisenberg lab.

What Does It Look Like? What Does It Do? They have shaped their herpes research around the proteins of the virus and two key questions about them: What do they look like? What do they do? Over time, the virology community, with Drs. Cohen and Eisenberg at the forefront, discovered that HSV expresses glycoproteins to “fool” cellular proteins into letting the virus enter. Using this Trojan horse, the lipid layer of the herpes virus meets the lipid layer of the cell, causing a “fusion event” — a coalescing of viral and cellular lipid membranes that allows the virus to infect the cell. At Penn Dental Medicine, the scientists are analyzing the events that enable this fusion of the highly complex herpes virus. While the virus has more than 70 proteins, including 12 “envelope” glycoproteins, only a subset of four (gD, gB, gH and gL) enable the virus to tunnel its way into the cell.

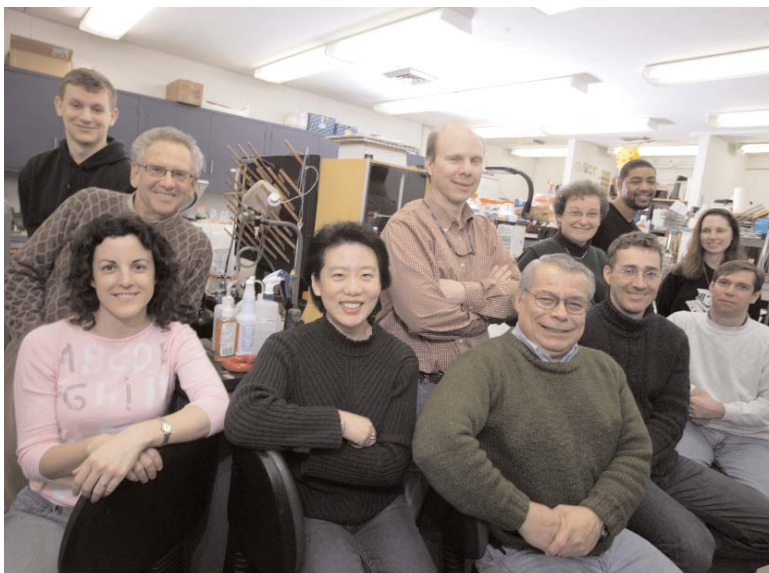
The questions remain: How do those four contrive to fuse with and infect a cell? What is their interaction with the cell that makes them appear desirable?

Early work focused on gD: mapping its structure with antibodies (what does it look like?) and examining function with mutants (what does it do?). Recently, they collaborated with colleagues at other universities to address these questions more directly. In 1996, they teamed with Dr. Patricia Spear of Northwestern University to characterize the cell receptors bound by gD that she had discovered (what does it do?). And in collaboration with Drs. Don Wiley and Andrea Carfi of Harvard University, they discovered what this glycoprotein looks like — solving the three-dimensional structure of gD in 2001.

Continuing their collaboration with Dr. Carfi, they recently made other exciting discoveries — receptor binding sites are hidden in gD until the virus encounters a cell, and receptor binding induces a major conformational change in

gD that triggers later steps in entry involving the glycoproteins gB, gH and gL. Drs. Cohen and Eisenberg now collaborate with Drs. Steve Harrison and Katya Heldwein at Harvard to solve the structures of these other three glycoproteins.

The gD protein is also a strong candidate for a single-protein vaccine. Says Dr. Eisenberg: “This is the one to go after.” And in fact, GlaxoSmithKline has developed a gD vaccine for genital herpes that has worked well in clinical trials with women. The choice of gD was based largely on the early work of Drs. Cohen and Eisenberg. But, the duo predicts that the other three glycoproteins will also be needed to make the vaccine work in men as well as women.



Members of the Cohen-Eisenberg lab.

Battling Bioterrorism

The headway that Drs. Cohen and Eisenberg have made on herpes also holds promise for vaccines for other viruses, including a new one for smallpox. Using their herpes research as a model, the scientists hope to develop a vaccine for immunity against the smallpox virus that

could be used in the event of bioterrorism using this feared biological agent.

Ironically, when Dr. Cohen came to Penn in 1964 as a postdoctoral fellow, he worked on a vaccine for smallpox, the most feared fatal disease of its time, killing up to two million people a year. By the late 1960s, the World Health Organization (WHO) launched a worldwide vaccination campaign against smallpox, effectively eliminating the disease within 10 years. The disease was eradicated with a vaccine that uses a “cousin” of smallpox, called vaccinia; though effective, it has side effects. Once smallpox was eradicated, vaccination against it was discontinued.

Today, the smallpox virus exists officially in only two laboratories — at the U.S. Centers for Disease Control and Prevention (CDC) in Atlanta, Ga., and at a virology labora-

tory located outside Novosibirsk, Russia. After years of debate, in 2002, WHO voted against destroying the remaining stocks of smallpox virus so that scientists could continue research on other poxviruses and compare their results with the smallpox virus. Only investigators at the CDC can work with smallpox, but scientists are able to work with its less virulent cousin, vaccinia.

Drs. Cohen and Eisenberg are among them, in collaboration with esteemed virologist Bernard Moss, MD, PhD, of the NIH and Dr. Stuart Isaacs at Penn Medicine. Through their HSV research, the Penn pair has become expert at experimenting with a protein expression system called the baculovirus system. This is an efficient vehicle for expressing large quantities of proteins from other viruses. Says Dr. Eisenberg: "After anthrax [scared post-9/11], we asked ourselves, 'What can we do as scientists?'" Their answer: Make a lot of vaccinia proteins and use them as a 'subunit vaccine' (one that is only proteins, not the whole virus).

Penn is part of the NIH's Mid-Atlantic Regional Center of Excellence for Biodefense and Emerging Diseases, and Drs. Cohen and Eisenberg are members of a poxvirus team that is working on an improved vaccine against smallpox, one that would not have the dangerous side effects of the original vaccine. Thus far, the subunit vaccine has proven successful in mice. Together with Drs. Isaacs and Moss and an NIH challenge grant, Drs. Cohen and Eisenberg are working now on producing enough vaccine for mass use in humans. A company called Chesapeake PERL has a licensing agreement with Penn to prepare the baculovirus-derived proteins in sufficient quantities for Phase 1 human clinical trials.

The Cohen and Eisenberg lab is also part of Penn's ISTAR program. The acronym stands for the Institute for Strategic Analysis Threat and Response, consisting of broad-based interdisciplinary teams of faculty throughout the University working on initiatives to support the detection, prevention, and remediation of strategic international and domestic threats. One goal is to develop a curriculum on bioterrorism and natural emergency preparedness for all campus health providers.

Two Heads Are Better Than One Respectful of their unique partnership as researchers and the added strength it brings to their investigations, Drs. Cohen and Eisenberg decided many

experiments ago that all of their work would be divided 50:50 — authorship, funding, overseeing staff, mentoring students. "Nobody knows who the ideas come from, so nobody can give either of us the credit for any one thing," says Dr. Cohen. They take turns on signing a paper as lead author; all the funding goes into one pot; and they meet together with the graduate students and postdoctorates in their lab.

Claude Krummenacher, PhD, now a Research Assistant Professor of Microbiology, joined the Cohen-Eisenberg lab as a postdoctoral fellow in 1997. "This is clearly one of the best labs in the field and this is recognized all over the world," says Dr. Krummenacher, currently working with the senior scientists on the studies of HSV. "This lab is very rigorous and Drs. Cohen and Eisenberg make sure that what comes from the lab is high quality."

At the same time, the professors take great pride in their graduate students, postdoctorates, and research assistants: Both Drs. Cohen and Eisenberg list them on their own CVs, like a Who's Who in virology research. And the feeling is mutual. "I benefited a lot from working in this lab," says Dr. Krummenacher, noting that the professors groom the junior members of their lab for their own successes. "Drs. Cohen and

Eisenberg involve the members of their lab in many aspects of running the lab. We are involved in grant writing, extramural presentations, decisions about equipment acquisitions — many things that principal investigators often do on their own."

In addition to mentoring in the lab, Drs. Cohen and Eisenberg teach microbiology in their respective schools and in the Cell and Molecular Biology graduate group, which includes faculty from Penn's Dental, Medical, and Veterinary schools; Wistar Institute; and Children's Hospital of Philadelphia. They also serve on many committees associated with the graduate program.

While the scientists bring their own niches of expertise to the lab, they both credit Penn's dynamic and open intellectual atmosphere with encouraging their growth and success as investigators. Adds Dr. Eisenberg: "There is tremendous science here at Penn, and we collaborate with lots and lots of people." Dr. Cohen completes the thought: "Everybody on this campus is collegial. Anything you need, you can always find somebody who knows it or has it, and who is willing to share it. It's nirvana." **PDJ**



A man with short, graying hair and a slight smile stands in a dental clinic. He is wearing light blue scrubs and has his arms crossed. In the background, a dental chair and overhead lights are visible, though slightly out of focus.

Feature

Moving Ahead, *Looking Back*

New Periodontics Chair
Brings Fresh Focus in Department's 50th Anniversary Year

BY JENNIFER BALDINO BONETT

This is a time of moving ahead and looking back for Penn Dental Medicine's Department of Periodontics and its new Chairman, Joseph P. Fiorellini, DMD, DMSc. Since joining the School in October 2005, he has been breathing fresh air into the Department, even as he soaks in its strengths, energy, and history. As Periodontics and Periodontal Prosthesis at Penn Dental Medicine celebrates its 50th anniversary this year, Dr. Fiorellini sees reasons old and new to celebrate.

"I'm having a ball," says the Dr. Fiorellini, who greets visitors with a hearty handshake and a warm welcome. "The Department has a very good history in periodontics and perio-prosthodontics. Many of the leaders in the field have come from this institution, and our current faculty are outstanding. We really have a strong tradition to build on."

Dr. Fiorellini adds his own strengths to that tradition. He joined Penn Dental Medicine from the Harvard School of Dental Medicine, where he served as Vice Chair and Associate Professor for the Department of Oral Medicine, Infection and Immunity as well as Program Director of Periodontology.

"Dr. Fiorellini has the superb skills in leadership, research, and patient care to lead the Department of Periodontics into its next era," says Dr. Marjorie K. Jeffcoat, Morton Amsterdam Dean of Penn Dental Medicine. "He wants to honor the Department's past while forging into the future. He's off to a great start."

To Penn Dental Medicine, Dr. Fiorellini brings expertise and research efforts in the relationship of genetics and periodontal disease, periodontal regeneration, and implantology. He has authored more than 50 manuscripts, reviews, and textbook chapters, and sits on the boards of several journals. (See sidebar, page 13)

Uncovering the Root of Periodontal Disease Much of Dr. Fiorellini's research zeroes in on periodontal disease at its genetic core. Together with fellow periodontist Dr. Jeffcoat, he plans to design a longitudinal study based on his recent research in recurring periodontal disease.

"It's a unique population," says Dr. Fiorellini. "Patients with recurring periodontal disease — even with regular cleanings, antibiotics, and surgery — are actually the hardest to treat. They profile very differently genetically in terms of their protein expression patterns."

At Penn Dental Medicine, he says, "what we'd like to do is start with a protein profile of healthy patients and examine them for periodontal degeneration over time." The goal would be to determine optimal treatment plans that could arrest the disease before it becomes problematic. With a grant from Philips Oral Healthcare, Dr. Fiorellini plans to participate in the Philadelphia leg of a study he began at Harvard on protein expression in periodontal disease. The aim is to identify a chair-side diagnostic test for periodontitis using a cheek swab (like "CSI," Dr. Fiorellini says with a wink).

Dr. Fiorellini has long studied patients with disorders that lead to periodontitis. Diabetes is one currently on his radar. Penn Dental Medicine is part of a multi-center pilot study on how diabetes may influence patients' risk for periodontal disease. The issue at hand: "Patients with diabetes

"Many of the leaders in the field have come from this institution, and our current faculty are outstanding. We really have a strong tradition to build on."

DR. JOSEPH P. FIORELLINI

and dental implants don't do as well," explains Dr. Fiorellini. "Our question is 'Can simple therapies affect the markers for periodontitis in patients with diabetes?'"

Dr. Fiorellini couples his research on the genetic roots of periodontal disease with a molecular approach to regrowing tissues damaged by the disease process. He has documented the use of bone morphogenetic protein-2 for regeneration of the alveolar ridge, receiving the American Academy of Periodontology's 2005 E. Bud Tarrson Research Award in Oral Plastic Surgery for his paper on the topic. The method is "more biologic than a graft," he says. The approach has FDA approval for orthopedic use and will soon be approved for dental applications. Dr. Fiorellini sees considerable opportunity for applications in oral surgery: from regrowing parts of the tooth to reinventing root canal by prompting dental pulp to regenerate dentin.

A New Day for Periodontics at Penn Dental Medicine While Dr. Fiorellini is new to Penn Dental Medicine, he appreciates the golden era of the Department and has a vision for bright,

Moving Ahead, Looking Back



Much of Dr. Fiorellini's research focuses on periodontal disease at its genetic core; he plans to design a longitudinal study based on his work in recurring periodontal disease.

bold times ahead. As Penn Dental Medicine celebrates the 50th anniversary of Periodontics and Periodontal Prosthesis this year (see sidebar, page 13), Dr. Fiorellini is taking a glance backward to shepherd the department forward.

He looks to the legacies of pioneering predecessors Dr. D. Walter Cohen (C'47, D'50), Dean Emeritus and the first Chairman of Periodontics at Penn Dental Medicine, and Dr. Morton Amsterdam (C'43, D'45), Professor Emeritus of Periodontics. Drs. Cohen and Amsterdam founded the field of periodontal prosthesis and ushered in the concept of "total dentistry," [an integration of specialties that remains a hallmark at Penn Dental Medicine]. Fondly remembered by alumni and faculty, these legendary leaders still conjure memories of expert mentorship and academic rigor.

Dr. Amsterdam, a widely respected leader in periodontics and prosthodontics, created the School's periodontal prosthesis program during his tenure. Marking his legacy was a \$1 million gift from the late Hon. Walter H. Annenberg (W'31, HON'66), to endow the deanship of Penn Dental Medicine as the Morton Amsterdam Chair for the Dean at the University of Pennsylvania School of Dental Medicine. The gift was originally made to Penn Dental Medicine in 1990 and redesignated in July 2004 to endow the school's deanship

with the approval of Mrs. Leonore Annenberg (HON'85).

Dr. Fiorellini is working to reinvigorate the energizing feelings of esteem and unity of this remarkable era in Penn Dental Medicine history. His strategy is simple: To recruit, reinforce, and renew. His plans for the Department include:

- Recruit more full-time faculty.
- Recruit stellar residents, fellows, and postdoctorates, building on the exceptional reputation of the current program. (There were nearly 60 applications for the three residency positions in the 2006-07 class.)
- Reinforce the close relationship between basic science and clinical science activity in the program. "The interplay between the basic sciences and the clinical sciences really positions us well to win larger grants — including center and program project grants — that are related to clinical fields," he says.
- Renew departmental facilities, particularly by renovating the Coleman Clinic for Periodontics. With fundraising for the clinic renovation still ongoing, construction plans are projected to take shape by the end of next academic year.
- Renew alumni pride and involvement.

Reaching Out to Alumni There are more than 400 graduates of the Periodontal Department over its 50 years, and Dr. Fiorellini is reaching out to every one. He wants to rekindle the sparks of intellectual curiosity and pride that encouraged alumni to seek out Penn Dental Medicine, and then to pursue periodontics as their life's work.

"There is so much to know about the Periodontal Department at Penn Dental Medicine today," says Dr. Fiorellini. "I would love for all our alumni to be active in the Department as I get my feet wet here, and beyond. When I talk to Periodontics alumni, so many of them tell me how this place — the faculty, the opportunities here — changed their lives," he continues. "The 50th anniversary is the best opportunity I can think of for alumni to come back and look ahead with us." **PDJ**

Meet Periodontics Chairman Joseph Fiorellini

BS: Springfield College, 1982

DMD: Harvard School of Dental Medicine, 1990

DMSc in Oral Biology and Certificate in Periodontology: Harvard, 1993

Research Interests

Genetics and periodontal disease

Periodontal regeneration and implantology

Diabetes and periodontal health

Research Awards

The American Academy of Periodontology Young Investigators Award

The Academy of Osseointegration Research Award

The European Association for Osseointegration Research Prize

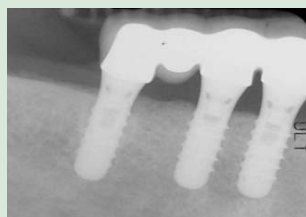
The E. Bud Tarrson Research Award in Oral Plastic Surgery
from the American Academy of Periodontology Foundation

Editorial Boards

The Journal of Periodontology

*The International Journal of
Oral and Maxillofacial
Implants*

*The International Journal of
Periodontics and Restorative
Dentistry*



Celebrating 50 years of Periodontics

and Periodontal Prosthesis at Penn Dental Medicine

Penn Dental Medicine will mark the 50th anniversary of its Periodontics and Periodontal Prosthesis Program with the Ivy League Bone Symposium, to be held Thursday, June 1, to Saturday, June 3. This special continuing education event will celebrate the contributions of Penn Dental Medicine to periodontics and periodontal prosthesis education and pay special tribute to the pioneering work of Drs. Morton Amsterdam and D. Walter Cohen. The program will run from noon to 5 p.m. on June 1 and from 8:30 a.m. to 5 p.m. on June 2 and 3.

Contemporary developments in biotechnology and biomaterials are transforming the clinical practice of regeneration in periodontics and maxillofacial surgery. Old treatment paradigms are changing as the new bio-engineered devices reach the marketplace and clinicians now need to evaluate their integration into patient care. A panel of leading clinicians and educators will discuss the latest advances in the field, including the use of growth factors alone or in combination with grafts and membranes in regenerative surgical procedures. The presenters will include Drs. David Garber (GD'78, D'81), John Kois (D'77), Massimo Simion, Dennis Tarnow, Myron Nevins (D'63), Dean Emeritus Jan Lindhe, Michael McGuire, Marjorie K. Jeffcoat, Marc Nevins, Robert Genco (D'67), William Giannobile, Jeffery Hollinger, Ken Kornman, Ole Jensen, Robert Marx, Brian Mealey, Myron Spector, Ray Williams, Gilbert Triplett, John Wozney, William Becker, Stuart Forum, and Joseph Fiorellini.

In addition, topics will reflect the contributions of 50 years of periodontics and periodontal prosthesis education at the University of Pennsylvania. It will address observations of conceptualization and longevity resulting from optimal patient care as well as identifying the need for continued investigation.

The symposium, which will be held at the Hyatt Regency Philadelphia at Penn's Landing, will offer attendees 18 continuing education credits. Tuition is \$395 with a 25 percent discount for Penn Dental Medicine alumni. For registration or additional information, call 1-866-736-6233 or visit www.dental.upenn.edu/cde.

On Campus

NEWS

Operating Room Dentistry Program Serving the Underserved

Penn Dental Medicine is providing much-needed care to some of the most underserved patients through a special program within the Department of Oral Medicine. The Operating Room (OR) Dentistry program, one of the few of its type in the region, serves patients with developmental and psychological disorders, physical handicaps, and complex medical conditions — those who require general anesthesia to receive dental care. Administered by Dr. Eric T. Stoopler (D'99, GD'02), Assistant Professor/Clinician Educator of Oral Medicine, the program has grown to be a vital referral resource for clinicians and an invaluable treatment center for individuals with special needs, drawing patients from throughout the Philadelphia area, the state, and beyond.

"Dr. Stoopler has developed the premier program in OR Dentistry for patients with severe medical, psychological, or physical handicaps in this part of the country," says Dr. Martin S. Greenberg (GD'68), Chair of the Department of Oral Medicine. "His program is done with both skill and compassion for his patients, while also providing significant training experience for Penn Dental Medicine residents and students. Dr. Stoopler's program is highly regarded by his students and patients."

Dr. Stoopler has directed the program, which was established in 1990, for the past four years. Based at the Hospital of the University of Pennsylvania (HUP), he devotes one day a week to the OR cases and sees approximately 40 patients a year. "We don't do more than one or two cases per day, because of the individualized attention we provide for our patients," he notes. "I follow patients through the entire process — from the medical



Dr. Eric Stoopler, Assistant Professor/Clinician Educator of Oral Medicine, administers the Operating Room Dentistry program.

workup and pre-operative anesthesia evaluation to recovery." Cases normally range from two to five hours, with some cases extending for longer periods of time. "We often don't know the level of treatment required until a patient is under anesthesia, since it is often very difficult to complete a thorough examination before then."

Dr. Stoopler explains that the patient care focuses on basic restorative and preventive dentistry — cleaning, scaling and root planing, fillings, fluoride treatments, and extractions. Occasionally, they will also perform root canals. "Complex procedures are difficult to do in the OR for a number of reasons. Most importantly, complex dental restorations usually require several phases of treatment, and thus, increases the risk of morbidity associated with multiple general anesthetic procedures. Additionally, most of the patients we are treating are not able to properly care for fixed dental restorations, such as crowns and bridges, or

safely wear removable prostheses. The primary goal is to remove infection and get them to a stage where they can function without significant problems."

While Dr. Stoopler is the only Penn Dental Medicine faculty member providing care through the OR Dentistry program at HUP, he works with a team of nurses and anesthesiologists from the hospital and is assisted by the Oral and Maxillofacial Surgery Department as needed. The program does, however, involve Penn Dental Medicine students on a number of levels. Oral Medicine residents work with Dr. Stoopler on a full-time basis and predoctoral students who complete their hospital dentistry externship at HUP rotate through the program as well. Dr. Stoopler also teaches a Selective Course on OR Dentistry and invites participating students to the OR. In addition, all predoctoral students get an introduction to the program through their third-year oral medicine course.

Kimberly A. Christie (D'06) and PASS student Dr. Jonathan S. Friedman (GD'04, D'06) both rotated through the OR program this year as part of their hospital externship at HUP and agree it was a highpoint for them. "I learned a lot about internal medicine issues, which otherwise I wouldn't have been exposed to," says Dr. Friedman. "I encourage all students who want to get a totally different perspective about dentistry to participate in this program." Ms. Christie adds that "the time I spent in the OR was amazing. It was fascinating to watch the fields of medicine and dentistry work hand in hand." She also valued the opportunity to help the special needs population and gain hands-on experience assisting with the cases.

Oral medicine resident Dr. German G. Salazar (GD'06), who is currently working in the OR program, finds it especially rewarding as well. "I love to work with these patients and think it is a great opportunity to provide dental care at another level," he says. "There aren't a lot of people doing this type of work, so it has been a great learning experience." He also sees the program playing an important role in illuminating the diversity of the oral medicine specialty. "Oral medicine is not only about diagnosing and treating patients with disorders of the oral cavity and maxillofacial complex, but also about patients with special needs who can't be treated in a traditional dental environment."

While the program continues to grow, one of the ongoing challenges is funding. "It can be difficult to obtain support for this type of advanced dental care through usual insurance channels," notes Dr. Greenberg. "Dr. Stoopler works hard to locate financial support for this underserved group of patients." As one way to supplement the program, he is exploring ways to incorporate more research opportunities.

"I think it is a very important program because it fills a critical need," adds Dr. Stoopler, whose commitment to his patients is evident. "These patients are probably one of the most underserved groups in terms of den-

tistry. I have had parents and caretakers say they have made numerous inquiries regarding dental care and had difficulty locating a provider until they found us. It is very gratifying as a professional."

FDA Approves TMJ Prosthesis Developed by School's Oral Surgery Chair

After a 10-year clinical trial, the Food and Drug Administration (FDA) has given a thumbs-up to a temporomandibular joint (TMJ) replacement developed by Dr. Peter Quinn (D'74, GD'78), Professor and Chairman of Oral and Maxillofacial Surgery at Penn Dental Medicine. This prosthesis is the first stock device of its type to gain FDA clearance (granted in September 2005 through a pre-market approval process), providing a new safe and effective treatment option for patients requiring a total joint replacement.

Marketed as the W. Lorenz TMJ Replacement System, its development began in 1991 when Dr. Quinn teamed with the international orthopedic company Biomet and its recently acquired Walter Lorenz Surgical Inc. (a developer of craniomaxillofacial products) to design the appliance and do the requisite materials testing. Dr. Quinn began clinical trials at Penn in 1995, where 80 percent of the surgeries were performed; the rest were conducted at the University of Texas Southwestern Medical Center, Dallas, by Douglas Sinn, DDS. Dr. Quinn is the clinician-consultant for the device and Lorenz-Biomet holds the patent.

"Its materials follow the gold standard for orthopedics," says Dr. Quinn. "They are extremely sound." The prosthesis features a polyethylene socket, a metal condyle made from cobalt-chromium-molybdenum alloy, and titanium alloy screws. All materials have more than 30 years of successful use in orthopedic joint replacement, and there were no materials/mechanical failures during the trials, which

involved 268 patients and 434 joint replacements.

"Given that total joint replacements are only performed as a last resort for those TMD patients who have failed all conservative therapy, or in cases of trauma or tumors of the jaw, it is difficult to project if our prosthesis will increase the number of joint replacements performed each year," notes Dr. Quinn, "but it will give patients requiring this surgery a safe and effective alternative." The only other FDA-approved jaw replacement on the market is custom made from 3-D CT scans; it requires creating a model to form the prosthesis, and at times, a two-stage operation. Dr. Quinn explains that a stock prosthesis offers the advantage of intra-operative manipulation, plus it is more economical and ready for immediate use (a custom prosthesis can take several months to prepare).

The Lorenz stock prosthesis is already in use at two sites in Canada, eight in Europe, and six in South America. There are strict training requirements before surgeons can be approved to place the prosthesis. "We had an agreement with the FDA that it would be approved with the condition of training, so it couldn't just be sold without it," notes Dr. Quinn. "Since it is so technique sensitive, we are trying to limit it to surgeons who have a patient base that would require a minimum of 12 to 15 joint replacements a year. We are identifying surgeons who do a lot of TMJ surgery through the American Society of Temporomandibular Joint Surgery."

In addition to Dr. Quinn, there are currently seven U.S. surgeons performing surgery with the Lorenz prosthesis, and it is estimated that there will be a total of 12 to 20 centers chosen as approved sites in the U.S.



The TMJ prosthesis developed by Dr. Peter Quinn.

Penn Dental Medicine Celebrates Hispanic History Month

Penn Dental Medicine's student chapter of the Hispanic Dental Association (HDA) celebrated Hispanic History Month in October with a special series of activities to enhance familiarity and recognition of Hispanic culture in the School community. The 15-member organization put together events spanning several weeks, instead of a single day as in years past. A vibrant blue banner announcing the celebration hung overlooking the Robert Schattner Center Henry Schein Atrium, movies reflecting historical and contemporary Hispanic life were shown every Monday throughout the month, and emails with Spanish sayings and their definitions were sent each week to faculty, staff, and students to familiarize the School community with the language.

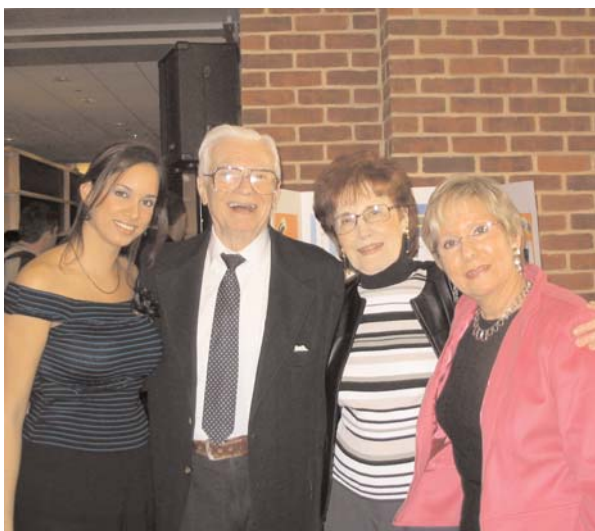
The month's themes were all tied together at Fall Fiesta, an evening ceremony held on October 27, 2005 in the Henry Schein Atrium.

The evening honored Hispanic faculty members with a display of posters featuring their picture, specialty, and professional accomplishments. The event also included Mexican food, a raffle, and professional salsa dancing. "The turnout was twice the amount of people than we expected and we appreciated their support," said HDA President Carolina Garces (D'07).

Dr. Joseph L. Rabinowitz (GR'50), Professor Emeritus of Biochemistry, presented the HDA with *Radioisotope Methodology*, a textbook he wrote and published in Spanish and English. Copies of both versions were donated to the School and are available in the Leon Levy Library. "It was very rewarding to speak with many of my former students who now have their own careers in dentistry," says Dr.

Rabinowitz. "It makes me very proud." Dr. Rabinowitz continues to serve as a mentor for students and recognizes faculty members with the Joseph and Josephine Rabinowitz Award for Excellence in Research. Established in 2004, the award is presented each year to junior faculty members who demonstrate promise in teaching and research.

Ms. Garces and Victor Duran (D'07), HDA Vice President, represented Penn Dental Medicine's HDA



From left to right: HDA President Carolina Garces with Dr. Joseph Rabinowitz; his wife, Josephine; and Dr. Sara Simpson-Rafalin.

chapter at a national level, attending the HDA's 13th Annual Meeting and Exhibition Review, *Communicating Oral Health: Clinical Care, Research and Education*, in San Antonio, Texas, in November. Professional and student HDA chapters from around the country gathered to network and discuss the issues of oral health and access to dental care in Hispanic communities.

In the coming year, Ms. Garces and the HDA look forward to engaging in more community service activities and putting together an event to showcase the work of students who travel to South America and volunteer their time. "We like to honor students and faculty who do great work," says Ms. Garces. "Our presence and heritage should be recognized among our peers and within the Penn community."

New Student Group Brings Classes Together in Service

Penn Dental Medicine students are joining forces across class lines to strengthen their service efforts through a new student organization. Formed this past fall, the Community Health and Service Organization (CHASO) was born in response to hurricane Katrina, but has the goal of galvanizing student support for fundraising and community service activities on an ongoing basis.

"As a community service representative for my class, I had a responsibility to do something for Katrina relief efforts, but I knew I could accomplish more with a group of students helping me," says Mana Mozaffarian (D'06), who organized CHASO. "So, I asked the community service representatives of all the different classes to meet and discuss fundraising ideas. As we started meeting, I realized we could do even more if we were an official organization." Ms. Mozaffarian approached Assistant Dean for Student Affairs Sue Schwartz (GED'75) with the idea, and with her guidance, CHASO became the latest addition to the School's active student groups.

"It is a very cooperative effort, and I think it is wonderful that students are working across classes," notes Ms. Schwartz. "Coming together to form a group like CHASO reflects the tremendous level of caring and generosity among our students."

The community service representatives from each class fill most of the officers' roles within CHASO. In addition to Ms. Mozaffarian, the CHASO officers include Miquelle R. Patterson (D'06), Amber L. Sabitus (D'07), Carina Wohl (D'07), Euree Choi (D'08), Christine Bender (D'08), Quyen Vu (D'08), and Gloria C. Hwang (D'09). Dr. Joan I. Gluch (GR'92), Director of Community Health, is the faculty advisor.

CHASO has chosen to direct the majority of its fundraising for this year to Katrina relief, but also held a drive for a West Philadelphia shelter in December and plans to do others for the local community. By March,

Class of 2006 Commencement May 15

Penn Dental Medicine will mark its 128th commencement with the graduation of the Class of 2006.

Date/Time: Monday, May 15, 1 p.m.

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

Commencement Speaker: Dushanka V. Kleinman, DDS, MScD - Dr. Kleinman is the Deputy Director of the National Institute of Dental and Craniofacial Research (NIDCR) at the National Institutes of Health (NIH) and Chief Dental Officer of the United States Public Health Service (USPHS). For the past two years, she has also served as the Assistant Director for Roadmap Coordination in the Office of the Director, NIH.

Before being commissioned by the USPHS in 1978, Dr. Kleinman served as an Assistant Professor for two years at the University of

Maryland at Baltimore School of Dentistry. Her first USPHS assignment was with the Division of Dentistry, participating in preventive dentistry and dental auxiliary activities. In 1980, Dr. Kleinman joined the NIDCR as the Evaluation Officer in the Office of the Director, and in 1982, became Chief of the Planning and Evaluation Section. From 1985 to 1990, Dr. Kleinman first managed the Institute's Epidemiology and Oral Disease Prevention Program and then headed the Oral Mucosa, Injuries, and Pain Epidemiology Section within that Program. In 1990, Dr. Kleinman was assigned to the Office of the Surgeon General, to serve as the Special Assistant for Special Projects, and returned to the NIDCR in her current position as Deputy Director in 1991. From 1994 to 1995, she was also the Acting Director of the NIDCR.

A Diplomate of the American Board of Dental Public Health, Dr. Kleinman has also served as President of the American Association of Women Dentists, American Association of Public Health Dentistry, and the American Board of Dental Public Health.

CHASO had raised more than \$1,200 through a host of sources, including the sale of Halloween and Valentine's Candy Grams and Katrina Awareness Ribbons, a "Penny War" change drive, and donations from the Student Council, the Class of 2008, and the School's American Student Dental Association (ASDA) chapter. At press time, plans were underway for similar events and solicitations for the remainder of the academic year. CHASO will be contributing to the national ASDA drive in support of dental students impacted by Katrina and will donate the rest of its hurricane fund to rebuilding efforts.

While at this point individual students and classes continue to organize some fundraising and community service events on their own, Ms. Mozaffarian envisions CHASO growing to serve as the umbrella organization for all such activities. "I hope that CHASO will become the place where students come with their ideas for all service projects within the School. I think that as a group we can give the various causes a bigger voice and get better results," notes Ms. Mozaffarian. She also foresees CHASO working with the School's Division of Community Oral Health to connect students with community health outreach activities in the West Philadelphia area. "I am encouraged by the interest and grateful

for all the support," says Ms. Mozaffarian. "CHASO would not have done so well so quickly if it weren't for the students and faculty who have donated so much of their time and energy to make this organization go beyond what was expected initially."

"Students have shown a great deal of initiative and compassion through the CHASO organization," adds Dr. Gluch, the group's faculty advisor. "I'm impressed with the scope of their activities and how the classes have come together to work cooperatively to really make a difference."

International Externship Program

Penn Dental Medicine continues to offer students a global perspective of dentistry through its international externship program. The three- to four-week program, now in its 16th year, gives students a choice of 30 locations in 23 countries. This year, 40 seniors completed externships in 11 different countries and 44 students have applied for the 2006-2007 academic year, as of press time.

The externship sites and participants for 2005-2006 included the following:

Belgium Catholic University, Leuven: Roselyne Gichana

England Guy's Kings and St. Thomas (GKT) Dental Institute/Guys Hospital, London: Annie Neville, Mita Parikh,

Priya Patel, Luciana Rausch, and Amy Schultz

England St. Bartholomew's Royal London School of Medicine and Dentistry London, England: Kevin Hassell, Lindsay Lepore, Dorothy Lorenzo, and Doug Sewell

Fiji Islands Fiji School of Medicine, Suva: Sonal Dave, Derek Haber, Jeremy Hannon, Jennifer Molitor, Serban Nicolaescu, Ronald Baker Rawlins, and Stefanie Walker

Germany Witten-Herdecke University, Witten: Sarmad Habboush

Hong Kong University of Hong Kong/Prince Philip Dental Hospital: Lisa Blickley, ManYee Chan, Howard Kang, Sahar Ravari, and Greg Stoici

Japan Tokyo Medical & Dental University, Tokyo: Sang Kim and Derek Sanders

Korea Seoul National University, Seoul: Hye-Eun Kim, Richard Kim, David Kwon, Seong Lee, Seung Jae Lee, Joorok Park, and Ellen Son

Nigeria University of Ibadan, Ibadan: Faith Madde and Felicia Swinney

Puerto Rico University of Puerto Rico, San Juan: Elina Bilman, Miquelle Patterson, and Alma Payumo

South Africa University of Witwatersrand, Johannesburg:

Jonathan Waasdorp

Spain Complutense University, Madrid: Hans Koenig and Lucienne Pino

Black Alumni, History Celebrations Held at Penn Dental Medicine

On January 26, alumni from throughout the University gathered at Penn Dental Medicine to pay tribute to the legacy and leadership of one of the School's earliest graduates — Dr. James Brister, who with his dental degree in 1881 became the first African American to graduate from the University of Pennsylvania. The special reception, held in the Robert Schattner Center Henry Schein Atrium, marked the opening of a year-long series of events planned by Penn's Black Alumni Society, the James Brister Society, and the Penn Alumni Diversity Alliance in celebration of the 125th anniversary of Dr. Brister's graduation.



Penn Dental Medicine students and alumni at the James Brister 125th anniversary celebration.

Penn Dental Medicine alumnus, Dr. Lewis Proffitt (D'73, WG'80), presented the evening's keynote address. The program also included remarks by Penn Provost Ronald Daniels; Dr. Thomas Sollecito (D'89, GD'91), Associate Dean for Academic Affairs; Penn Dental Medicine student Maureen Poux (D'07); and various members and officers of the Black Alumni Society, the event's sponsor. The School's chapter of the Student National Dental Association (SNDA) also played an active role in the event, preparing a timeline poster display

highlighting significant events and achievements of black dental professionals and organizations within the United States over the past 125 years.

For information on the other events planned as part of the 2006 James M. Brister 125th Anniversary Celebration, visit www.alumni.upenn.edu/bas/events/brister125.html.

And on February 28, the SNDA marked Black History Month with its 6th Annual Black History Celebration, "African American Achievement and Excellence in Dentistry." Also held in the Robert Schattner Center Henry Schein Atrium, it was sponsored by Penn Dental Medicine's Office of Minority Affairs. Joe Moon (D'07) served as master of ceremonies for the

program, which included remarks by SNDA President Derek Tillman (D'07) and a keynote address by Dr. Franklyn Scott, an oral and maxillofacial surgeon and former president of the National Dental Association, who emphasized the importance of giving back to those in need. Two Penn undergraduates were also part of the program — Darryl J. Powell (C'09) sang two musical selections and Tiffany C. Ford

(C'06) performed a praise dance. The evening's festivities also included an award to faculty member Dr. Stanford Augustine Brown, Clinical Professor of Pediatric Dentistry. Presented by Felicia Swinney (D'06), it recognized Dr. Brown for his dedication to teaching and 29 years of service to Penn Dental Medicine and its students.

Shames Lecture Series Connects Dental Professionals

Marking its 24th year with the fall 2005 program, the annual Samuel I. Shames and Hilda B. Shames Visiting Lecture Series at Penn Dental Medicine continues to offer dental professionals a valuable learning and networking opportunity. Previously held during Alumni Weekend, the Shames lecture series is now a stand-alone event that will occur every fall. The first lecture in this new format was held November 10, 2005 in the School's Sig Seigel Alumni Center and Conference Room.

Dr. Orhan Tuncay (GD'74), Chairman of the Department of Orthodontics at Temple University School of Dentistry, was this year's speaker, presenting "Invisalign System Applications." Dr. Tuncay reviewed the essentials of treatment planning and force application in Invisalign treatment. Approximately 50 individuals attended the lecture, which earned participants one continuing education credit.

The lecture series was founded in 1981 by Hilda B. Shames (DH'29), the first practicing dental hygienist in Delaware, in memory of her husband, Samuel, a Temple Dental School graduate; her goal was to provide dental professionals in the region with a lecture and networking resource free of charge. The Shames' grandchildren, also Penn Dental Medicine alumni, include Judith U. Weinstein (DH'83) and Bonnie F. Zimble (D'90).



Charlotte Shames Zimble, daughter of Samuel and Hilda Shames, and Dr. Orhan Tuncay.

On Campus

PEOPLE

Dean Jeffcoat Named to Institute of Medicine, International College of Dentists

Morton Amsterdam Dean Marjorie K. Jeffcoat has been recognized for her professional achievement by two highly respected medical and dental groups — the Institute of Medicine and the International College of Dentists. Dr. Jeffcoat was among 64 new members



Dr. Marjorie K. Jeffcoat

nationwide elected to the Institute of Medicine in October 2005. This year marked the 35th anniversary of the Institute of Medicine, which was established in 1970 by the

National Academy of Sciences to honor professional achievement in the health sciences and to serve as a national resource for independent analysis and recommendations on issues related to medicine, biomedical sciences, and health.

"As the Institute of Medicine celebrates this anniversary milestone, it is a great pleasure to welcome these distinguished individuals as members," said Institute President Harvey V. Fineberg. "Election recognizes those who have made major contributions to the advancement of the medical sciences, health care, and public health. It is considered one of the highest honors in these fields."

Current active members elect new members from a slate of candidates nominated for their work in their respective fields. With their election, members make a commitment to involve themselves in the work of the Institute, which conducts studies and other activities addressing a wide range of issues in medical science, health services, public health, and health policy. In addition to Dr. Jeffcoat, there were five other faculty members elected from the University of Pennsylvania this year.

Dean Jeffcoat also was inducted as a

Fellow of the International College of Dentists (ICD) at a convocation held October 7, 2005 as part of the American Dental Association Annual Session in Philadelphia. The ICD is a worldwide honorary dental association dedicated to the recognition of outstanding professional achievement, service, and the continued progress of the profession of dentistry.

Incorporated in 1928, the ICD was formed to advance the science and art of dentistry and to bring together the outstanding members of the dental profession to promote the exchange of dental knowledge and the growth of the profession worldwide. In addition to the U.S. Section, there are 12 other membership sections around the world. The ICD membership totals more than 10,000 with approximately 6,000 members in the United States and 4,000 international members.

Dr. Andres Pinto Receives HDA Public Health Award

Penn Dental Medicine's **Dr. Andres Pinto (D'99, GD'01, GR'06)**, Assistant Professor/Clinician Educator of Oral Medicine, was awarded the 2005 Hispanic Dental Association Colgate Palmolive, Inc. Public Health Award. This accolade was presented at the Hispanic Dental Association (HDA) 13th Annual Meeting and Exhibition Review, held in November 2005 in San Antonio, Texas.

Dr. Pinto was recognized as one of two Hispanic students from a nationwide pool of applicants enrolled in a Public Health graduate program who demonstrated leadership skills, scholastic achievement, community service, and a commitment to a career in public health and/or academia. The purpose of this award is to help increase the presence of Hispanic students in public health programs. Dr. Pinto will complete his Master of Public Health degree at Penn's School of Medicine this year. "Hispanics are a major part



Dr. Andres Pinto

of the underserved medical population, and I am committed to helping address this public health issue," says Dr. Pinto. "It was a great honor to receive this award."

This was the first time Colgate Palmolive, Inc. and the HDA teamed up to present this honor.

Dr. Pinto also moderated a panel discussion as part of the conference. Titled "Periodontics: Research Findings and Their Clinical Implications," it focused on the relationship between oral health status and periodontal disease and Morton Amsterdam Dean Marjorie K. Jeffcoat was a featured panelist. "It was very kind of Dr. Jeffcoat to serve on the panel and offer her expertise," adds Dr. Pinto.

Penn Dental Medicine Student Participates in Pennsylvania Public Health Meeting

Penn Dental Medicine student **Euree Choi (D'08)** and her partners in this past summer's Bridging the Gaps Community Health Internship Program were selected to participate in the Pennsylvania Public Health Association Meeting, held in Pittsburgh on October 25, 2005. The group presented highlights of their internship experience as part of a session titled "Sustainability and Collaboration: The Viability of Linking Service with Training." The panel discussion focused on strategies for collaboration and sustainability within health service programs for underserved populations and on techniques for training social service professionals. Ms. Choi's team was chosen because of the way they handled their unique mix of disciplines. Along with Ms. Choi, the team consisted of medical student Karin Reed and art therapy major Michael Sampson from Drexel University, as well as Penn

Nursing student Julie Mazzotta (NU'06).

The Bridging the Gaps group spent the summer at the Covenant House Pennsylvania, a 51-bed crisis center for adolescents up to age 21 that provides food and clothing as well as medical, educational, vocational, psychiatric, recreational, and legal services free of charge. "At first it was a challenge, because we were all from different fields of study and our personalities varied so greatly," says Ms. Choi. "Then, as we learned more about each other, those differences became our strengths."

Ms. Choi and her teammates were able to weave their collective knowledge of health and the arts into a fun, educational program for youth at the Covenant House. The activities ranged from Health Jeopardy with categories about taking care of their bodies to Hygiene Basketball that involved tossing articles of clothing into different baskets according to how regularly they should be washed. In another activity led by Mr. Sampson, he strummed the chords to Mariah Carey's "Shake It Off" as everyone took turns sharing personal concerns they wanted to alleviate.

The synthesis of these disciplines also got the students thinking about how they can incorporate other elements of care and service into their careers. "Working at the Covenant House through Bridging the Gaps was a great experience," notes Ms. Choi. "It has inspired me to include other aspects of health into my profession as a dentist."

The Bridging the Gaps Community Health Internship Program is an interdisciplinary internship program that is administered collectively by seven health institutions in the Philadelphia, Pittsburgh and Erie areas. The 2005 program ran from June 20 to August 5. More than 200 students from around the state participate each year, with 18 students from Penn Dental Medicine participating in 2005.

Faculty Member Recognized for Leadership in Student Research

Dr. Francis Mante (D'95), Associate Professor of Preventive and Restorative Sciences, has been recognized for his leadership within the School's student research activities as the recipient of the 2006 Burton C. Borgelt/Student Clinicians American Dental Association (SCADA) Faculty Advisor Award. The Award is presented annually to select faculty advisors who have distinguished themselves in service to their school's Student Table Clinic Program. Dr. Mante received the Award during the 83rd Annual Session of the American Dental Education Association, held March 8 to 11 in Orlando, Fla.



Dr. Francis Mante

Dr. Mante has been the faculty advisor for Penn Dental Medicine's Oral Health Fair and Table Clinic since 1991, when he began the event. Held each spring, it is organized with the assistance of the School's Vernon J. Brightman Student Research Society and features poster presentations by all of the students who participated in the previous Summer Research Program along with those of any other interested student researchers. "Participation in the Table Clinic is a requirement of the Summer Research Program, but we encourage all students who have done research to get involved," says Dr. Mante. "It is excellent experience, for we ask them to prepare a poster and present it just as they would at a professional meeting."

The Table Clinic usually includes 20 to 30 student research projects, which are judged by a faculty panel on subject matter, presentation, and display. Each year's grand prize winner represents Penn Dental Medicine at the American Dental Association (ADA)/Dentsply Student Clinician Program, held at the ADA's Annual Meeting. The 2006 Oral Health Fair and Table Clinic was held April 20 (prior to press time — visit www.dental.upenn.edu for the student winners), marking the 15th year for the event.

Faculty and Staff Honored for Years of Service

Penn Dental Medicine faculty and staff were honored for their years of service to the University at the School's annual employee recognition ceremony, held in the Sig Seigel Alumni Center and Conference Room on February 21. Awards were presented by department supervisors to employees who have been with the School or University for 35, 30, 25, 20, 15, and 10 years. Morton Amsterdam Dean Marjorie K. Jeffcoat also expressed her appreciation to those individuals recognized at the ceremony. "Thank you for your contributions to this incredible School, which you have helped to build," she said. "Your continued loyalty ensures that this institution moves forward with excellence and service." The award recipients include the following:

35 Years — Marsha M. Allen, Oral Medicine; Hazel B. Dean, Oral Medicine; Gerald S. Weintraub, Restorative Dentistry

30 Years — Harvey L. Levitt, Orthodontics; Mertis L. Lomax, Oral Medicine; Harold Rosenthaler (D'76), Restorative Dentistry

25 Years — Joseph DiRienzo, Microbiology; Uri Hangorsky, Periodontics; Kenneth Kent, Oral Surgery; Jeffrey Pearlman-Storch (D'80, GD'81, GD'87), Periodontics; Bruce J. Shenker, Pathology

20 Years — Eleanor B. Golden, Biochemistry; Jay Harry Hoffman, Restorative Dentistry; Audrey Insogna, Clinical Management; Irene R. Kieba (GEN'99), Pathology; Helene C. Russell, Endodontics; Clare R. Salamon, Orthodontics; David W. Wedell, Oral Surgery

15 Years — Chun-Hsi Chung (D'86, GD'92), Orthodontics; Francis Mante (D'95), Restorative Dentistry; John Wm. Mooney, Oral Surgery; Barry M. Moskowitz, Restorative Dentistry; Anna Ruth Muldowney, Oral Surgery; Najeed Saleh (D'94), Restorative Dentistry; Valerie Savage-Pugh, Pathology; Susan Schwartz (GED'75), Student Affairs; Gloria A. Seahorne, Pedodontics; Geraldine Stauffer, Penn Dental Care Network; Michele Taylor, Biochemistry; Thomas W. Therrien (D'90, GD'91), Restorative Dentistry

10 Years — Corky Cacas, Admissions; Florence Dunham, Instrument Management Service; Rosalina E. Espiritu, Pathology; Huan Lou, Microbiology; Scott S. Nakamura (D'94), Dental Care Network; Melissa A. O'Neill, Periodontics; Theresa Lynn Oteri, Insurance Office; Michael Angelo Perillo (D'93, GD'95), Orthodontics; Stacey A. Secreto, Oral Surgery; Laura Anne Sprague (CGS'02), Microbiology

Faculty, Staff Retirements

A long-time member of Penn Dental Medicine's standing faculty retired this past fall. Effective September 16, 2005, **Dr. Daniel Malamud** became Professor Emeritus of Biochemistry. Dr. Malamud joined the School's Department of Biochemistry in 1977 as an Associate Professor and became Professor in 1984. From 1985 through 1992, he also served as Chair of the Department.

During his 28-year tenure at Penn Dental Medicine, Dr. Malamud was active on a wide variety of University committees, including serving as a Benjamin Franklin Scholars Advisor; on the search committees for the Provost, the Associate Provost, and Vice Provost for Research; and on the Select Faculty Advisory Committee to the Vice Provost. An admired teacher, Dr. Malamud was the recipient of the School's Basic Science Teaching Award in 1988 and the University's prestigious Lindback Teaching Award in 1992.

Highly respected for his research on the identification and characterization of anti-bacterial and anti-viral molecules,



Dr. Daniel Malamud

much of his most recent work has focused on creating a point-of-care diagnostic system for the detection of viral and bacterial pathogens. Dr. Malamud is now in New York, pursuing research full time as a Professor of Basic Sciences at New York University College of Dentistry.

Also retiring from Penn Dental Medicine this academic year was staff member **Maria Squillacioti**. Effective December 23, 2005, Ms. Squillacioti retired from her post within the Department of Anatomy and Cell Biology, where for the past 12 years she served as the Department's Administrative Assistant.

Students Inducted to Matthew Cryer Honor Society

Penn Dental Medicine is pleased to recognize those students from the Class of 2007 who have been selected for induction to the Matthew Cryer Honor Society. Each year, the 10 highest-ranked students at the completion of their second year (as determined by general order of merit) are eligible for membership.

The Cryer Society was established in 1912 in honor of Dr. Matthew Cryer, a Professor of Oral Surgery, researcher, and clinician, to reward the outstanding academic achievements of Penn Dental Medicine students. Induction to the Society is the highest scholastic honor presented by the School. The students selected for membership this year include Wesley T. Barton, Milan Doshi, Ankush Khanna, Xuan T. Lam, Joe Moon, Anna Mordinson, Namthuyen T. Nguyen, Olga M. Volchonok, Carina Wohl, and Jenny M. Yoo.

Scholarships Awarded to Penn Dental Medicine Students

This academic year, 14 Penn Dental Medicine students have been recognized for their academic achievements through scholarships from eight different programs. The awards are given to supplement and encourage their continued success as dental students. The scholarship programs and recipients include the following:

ADA Dental Student Scholarship available to dental students entering their second year with a GPA of 3.0 or higher. *Recipient:* Marie Elena Falcone (D'08)

ADA Foundation Minority Dental Student Scholarship open to rising sophomores from underrepresented minority groups (African American, Hispanic, and Native American). *Recipients:* Michael Simontacchi-Gbologah (D'08) and Carlos Ramos (D'08)

Horvat Scholarship awarded by the Horvat Foundation to science students who reside in or around Duryea, Pa. *Recipient:* Amber Sabitus (D'07)

National Health Service Corps Scholarship

offered to students in return for their commitment to work in an underserved area after graduation. Recipients work one year for each year of scholarship support, which includes payment of tuition, fees, and books, along with an annual stipend. *Recipient:* Christine Bender (D'08)

New Era Dental Society Scholarship

awarded by the Greater Philadelphia Chapter of the National Dental Association to active members of the Student National Dental Association. *Recipients:* Bahareh Emadzadeh (D'07), Prince Ofose-Mensah (D'07), Maureen Poux (D'07, second consecutive year recipient), and Derek Tillman (D'07)

Polish Cultural Foundation's Joseph S.

Rozanski Scholarship available to Polish students who have completed their first year at an accredited college or university. *Recipient:* Elizabeth Jamilokowski (D'09)

RYU Family Foundation, Inc. Scholarship

available to Korean students with a minimum GPA of 3.5. *Recipients:* Sang Y. Kim (D'06) and Sara Y. Kim (D'06, second consecutive year recipient)

William Goldman Foundation Scholarship

offered to students who have completed their first year of graduate study and demonstrate potential for future contributions to the Philadelphia community. *Recipients:* Michelle Bernreuther (D'07), Sang Y. Kim (D'06, second consecutive year recipient), Sara Kim (D'06), and Ryan Tamburrino (D'06, second consecutive year recipient)

Scholarly Activity

Awards & Achievements

Dr. Martin Hobdell, Adjunct Professor of Preventive and Restorative Sciences

- Conferred honorary membership to the American Dental Association, October 2005.

Dr. Pamela S. Howard (GR'91), Research Associate Professor of Anatomy & Cell Biology

- Recipient of the World Scientists Forum International Award in Pathophysiology — Eminent Scientist of the Year 2005 (North America), presented by the International Research Promotion Council for: Howard PS, Renfrow D, Schechter NM, Kucich U. *Mast cell chymase is a possible mediator of neurogenic bladder fibrosis*. Neurourology and Urodynamics. 2004; 23: 374-382.

Dr. Marjorie K. Jeffcoat, Morton Amsterdam Dean and Professor of Periodontics

- Elected into the Institute of Medicine and inducted into the International College of Dentists, October 2005.

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

- Achieved Diplomate status with the American Board of Endodontics.

Dr. Syngcuk Kim, Chair and Professor of Endodontics

- Recipient of the Ralph F. Sommer Award, presented by the American Association of Endodontics for *Regulation of Pupal Blood Flow*. The award recognizes the principal author of a publication of specific significance to the art and science of endodontology.

Dr. Francis Mante (D'95), Associate Professor of Preventive and Restorative Sciences

- Recipient of the 2006 Burton C. Borgelt/Student Clinicians American Dental Association Faculty Advisor Award, March 2006.

Dr. Joseph Newell, Clinical Associate of Preventive and Restorative Sciences

- Elected to the Executive Council of the American Academy of Gold Foil Operators, September 2005.
- Inducted into the Academy of Dentistry International, October 2005.

Dr. Andres Pinto (D'99, GD'01, GR'06), Assistant Professor/Clinician Educator of Oral Medicine

- Recipient of the 2005 Hispanic Dental Association Colgate Palmolive, Inc. Public Health Award, November 2005, and the University of Pennsylvania Provost Faculty Development Award 2005-06.

Dr. Ed Rosenberg (GD'77, D'81), Clinical Professor of Periodontics

- Past Chair of the American Board of Periodontology.

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

- Inducted as a member of the John Morgan Society, University of Pennsylvania.

Dr. David Stanton (D'88, M'92, GD'95), Associate Professor of Oral and Maxillofacial Surgery

- Inducted as a Fellow of the American College of Surgeons, October 2005.

Dr. Arnold S. Weisgold (GD'65), Adjunct Professor of Periodontics

- Recipient of the Saul Schluger Award, presented by the Seattle Study Club, January 2006.

Selected Publications

A selection of work published in 2005/06 by members of the Penn Dental Medicine faculty, who are indicated in bold.

Atlas AM. The controlled placement and delayed polymerization technique for the direct class 2 posterior composite restoration. Compendium of Continuing Education in Dentistry. 2005; 26:812-822.

Barton ER. Loss of the dystrophin glycoprotein complex impairs mechanical signal transduction in murine skeletal muscle. American Journal of Physiology - Cell Physiology. 2005 September (Epub); 290:C411-C419.

Barton ER, Morris L, Kawana M, Bish LT, Tourse T. Systemic administration of L-arginine benefits skeletal muscle function in mdx mice. Muscle and Nerve. 2005; 32:751-760.

Chalovich EM, Koike MA, Aras MA, Murphey-Corb M, Wiley CA, **Jordan-Sciutto, KL**. Pocket proteins, p107 and p130, exhibit increased expression in SIV infected macrophages in SIV encephalitis. Neuropathology. 2005; 25(4):315-325.

Hersh EV, **Stoopler E**, **Secreto S**, **DeRossi SS**. A study of benzocaine gel dosing for toothache. Journal of Clinical Dentistry. 2005; 16:103-108.

Hobdell MH, Myburgh NG, Owen CP, Matsinhe D, Chikte UME, **Thorpe SJ**. *Writing Oral Health Policy: A Manual for Oral Health Managers in the WHO African Region*. Brazzaville, World Health Organization, 2005; 42.

Hou G-L, Hung C-C, **Tsai C-C**, **Weisgold A**. Topographical study of Chinese molars with Class III furcation involvements. International Journal of Periodontics and Restorative Dentistry. 2005; 25:173-179.

Howard PS, Kucich U, Coplen DE, He Y. Transforming growth factor-beta1-induced hypertrophy and matrix expression in human bladder smooth muscle cells. Urology. 2005; 66:1349-1353.

Iqbal MK, Lee K, **Kratchman S**. Treatment of a cracked tooth with conventional endodontic therapy. Endodontic Practice. 2005 September; 9-11.

Iqbal MK, Rafailov H, **Kratchman S**, **Karabucak B**. A comparison of three methods for preparing centered platforms around separated instruments in curved canals. Journal of Endodontics. 2006; 32(1):48-51.

Jaffe EK. Morpheins—a new structural paradigm for allosteric regulation. Trends in Biochemical Sciences. 2005; 30, 490-497.

Kang P, **Korostoff J**, Volgina A, **Grzesik W**, and **DiRienzo JM**. Differential effect of the cytolethal distending toxin of *Actinobacillus actinomycetemcomitans* on co-cultures of human oral cells. Journal of Medical Microbiology. 2005; 54:785-794.

Karabucak B, Li D, Lim J, **Iqbal M**. Vital pulp therapy with mineral trioxide aggregate. Dental Trauma. 2005 August; 21(4):240-3.

Karabucak B, Walsch H, **Jou YT**, **Simchon S**, **Kim S**. The role of endothelial nitric oxide in the substance P-induced vasodilation in bovine dental pulp. Journal of Endodontics. 2005 October; Volume 31:733-736.

Koike H, Uzawa K, **Grzesik WJ**, Seki N, Endo Y, Kasamatsu A, Uamauchi M, Tanzawa H. *GLUT1 is highly expressed in cementoblasts but not in osteoblasts*. Connective Tissue Research. 2005; 46:117-124.

Liu CL. The impact of osseointegrated implants as an adjunct and alternative to conventional periodontal prosthesis. Compendium of Continuing Education in Dentistry. 2005; 26(9):653-668.

Macarak EJ, Schulz J, Zderic S, Sado Y, Ninomiya Y, Polyak E, Chacko S, **Howard PS**. *Smooth muscle transmembrane sarcoglycan complex is disrupted in partial bladder outlet obstruction. Histochemistry and Cell Biology*. In press, 2005.

Moore PA, **Hersh EV**, *Common medications prescribed for adolescent dental patients. Dental Clinics of North America*. 2006; 50:139-149.

Patterson CE, Abrams WR, Wolter NE, **Rosenbloom J**, Davis, EC. *Developmental regulation and coordinate re-expression of FKBP65 with extracellular matrix proteins after lung injury suggests a specialized function for this endoplasmic reticulum immunophilin. Cell Stress Chaperones*. 2005; 10:285-295.

Prakash, SK, **Gibson CW**, Wright JT, Boyd C, Cormier T, Sierra R, Li Y, Abrams WR, Aragon MA, Yuan ZA, van den Veyver IB. *Tooth enamel defects in mice with a deletion at the Arhgap 6/Amel X locus. Calcified Tissue International*. 2005; 77:23-29.

Rosenberg E, Canto R, **Weisgold A**. *Implant occlusion: A literature review, Alpha Omegan*. 2005; 98: 8-19.

Rossman LE. Contributing editor and chapter author of *Diagnosis and Management of Orofacial Dental Pain Emergencies. Pathways of the Pulp, Ninth Edition* by Cohen S, Hargreaves KM. Elsevier/Mosby, 2006.

Stoopler ET. *Pioneer of oral medicine: Lester W. Burket, D.D.S., M.D. Journal of Historical Dentistry*. 2005; 53:114-117.

Strachan GD, Koike MA, Siman R, Hall DJ, **Jordan-Sciutto KL**. *E2F1 induces cell death, calpain activation, and MDMX degradation in a transcription independent manner implicating a novel role for E2F1 in neuronal loss in SIV encephalitis. Journal of Cellular Biochemistry*. 2005; 96(4):728-40.

Strachan GD, Ostrow LA, **Jordan-Sciutto KL**. *Expression of the Fetal Alz-50 Clone 1 protein (FAC1) induces apoptotic cell death. Biochemical and Biophysical Research Communications*. 2005; 336(2):490-5.

Tang L, Breinig S, Stith L, Mischel A, Tannir J, Dunbrack RL, Kokona B, Fairman R, **Jaffe EK**. *Single amino acid mutations alter the distribution of human porphobilinogen synthase quaternary structure isoforms (morphoeins). Journal of Biological Chemistry*. In press Dec. 23, 2005.

Wagner DM, **Chung C-H**. *Transverse growth of the maxilla and mandible in untreated girls with low, average, and high MP-SN angles: A longitudinal study. American Journal of Orthodontics and Dentofacial Orthopedics*. 2005; 128:716-23.

Yepes JF, **Alawi F**, **Stanton DC**, **Stoopler ET**. *Extranodal marginal zone lymphoma: a case report and review of the literature. General Dentistry*. 2005; 52:335-338.

Grants

A listing of all research grants currently active at Penn Dental Medicine or active within this academic year.

Department of Anatomy & Cell Biology

A Putative Cementum Morphogenetic Activity, 7/15/2003 – 5/31/2006
Funding Source: National Institutes of Health
Principal Investigator: Dr. Wojciech Grzesik, Research Assistant Professor of Anatomy & Cell Biology

Enamel Mineral Formation During Murine Odontogenesis, 8/1/2002 – 7/31/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Carolyn Gibson, Professor of Anatomy & Cell Biology

Enhancing Recovery of Muscle after Rotator Cuff Repair, 8/1/2004 – 7/31/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Elisabeth Barton, Assistant Professor of Anatomy & Cell Biology

Extracellular Matrix Changes in Response to Obstruction, 9/1/2003 – 8/31/2008
Funding Source: National Institutes of Health
Principal Investigator: Dr. Edward Macarak, Chair and Professor of Anatomy & Cell Biology

Individual Predoctoral Dental Scientist Fellowship, 6/1/2002 – 5/31/2007
Funding Source: National Institutes of Health
Awardee: Laura Darnell (PhD candidate); Dr. Edward Macarak, Chair and Professor of Anatomy & Cell Biology (Training Director)

Normal Human Cementum Cells In Citro and In Vivo, 1/1/2004 – 12/31/2005
Funding Source: National Institutes of Health
Principal Investigator: Dr. Wojciech Grzesik, Research Assistant Professor of Anatomy & Cell Biology

Mechanotransducer Mediated Growth Plate Performance, 1/1/2006 – 12/30/2007
Funding Source: Human Growth Foundation
Principal Investigator: Dr. Nancy Minugh-Purvis, Lecturer of Anatomy & Cell Biology

Modulation of Muscle Growth for the Muscular Dystrophies, 9/25/2005 – 7/31/2010
Funding Source: National Institutes of Health
Core Director: Dr. Elisabeth Barton, Assistant Professor of Anatomy & Cell Biology; Dr. Hugh Sweeney, Penn Medicine (Principal Investigator)

Role of CTGF in Lung Development and BPD, 8/1/2005 – 7/31/2006
Funding Source: Children's Hospital of Philadelphia
Principal Investigator: Dr. Edward Macarak, Chair and Professor of Anatomy & Cell Biology

Role of Sarcoglycans as Mechanical Sensors for Muscle, 7/1/2002 – 6/30/2006
Funding Source: American Heart Association
Principal Investigator: Dr. Elisabeth Barton, Assistant Professor of Anatomy & Cell Biology

Targeting Protein Degradation to Counter Muscle Loss in Muscular Dystrophy, 7/1/2004 – 12/31/2006
Funding Source: Parent Project for Muscular Dystrophy Research, Inc.
Principal Investigator: Dr. Elisabeth Barton, Assistant Professor of Anatomy & Cell Biology

Department of Biochemistry

Analysis of Disease-Linked and Functional Mutations of Peripherin/RDS; Correlations to Disease Phenotype, 7/1/2002 – 6/30/2006
Funding Source: E. Matilda Zeigler Foundation for the Blind
Principal Investigator: Dr. Kathleen Boesze-Battaglia, Associate Professor of Biochemistry

Membrane Fusion in Retinal Rod Outer Segments, 8/1/2004 – 7/31/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Kathleen Boesze-Battaglia, Associate Professor of Biochemistry

Positive and Negative Control of Chondrocyte Maturation, 3/7/2002 – 2/28/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Sherrill Adams, Chair and Professor of Biochemistry

Regulatory Kinases in Bmp-Mediated Hmsc Osteogenesis, 4/1/2005 – 3/31/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Anna Osyczka, Research Associate of Biochemistry

The Mechanism of Matrix Vesicle Biogenesis, 2/1/2000 – 1/31/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Ellis Golub, Professor of Biochemistry

Type III Collagen Gene Expression in Cartilage, 6/1/2003 – 5/31/2008
Funding Source: National Institutes of Health
Principal Investigator: Dr. Sherrill Adams, Chair and Professor of Biochemistry

Department of Microbiology

Early Events in Herpes Simplex Virus Entry, 7/3/2002 – 6/30/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Roselyn Eisenberg, Professor of Microbiology

Developmental Grant within Biodefense Against Biowarfare and Emerging Infection Agents,
3/1/2005 – 2/28/2006
Funding Source: University of Maryland
Principal Investigator: Dr. Robert Ricciardi, Professor of Microbiology

Herpes Simplex Virus Immune Evasion in HIV Subjects,
3/1/2001 – 2/28/2007
Funding Source: National Institutes of Health
Co-Investigator: Dr. Gary Cohen, Chair and Professor of Microbiology; Dr. Harvey Friedman, Penn Medicine (Principal Investigator)

HSV-Receptor Interaction in Entry and Pathogenesis,
2/1/2004 – 1/31/2009
Funding Source: National Institutes of Health
Principal Investigator: Dr. Roselyn Eisenberg, Professor of Microbiology

Immediate-Early Genes of KSHV,
9/28/2005 – 7/31/2010
Funding Source: National Institutes of Health
Principal Investigator: Dr. Yan Yuan, Associate Professor of Microbiology

Organization and Expression of Adenovirus Genes,
4/22/2002 – 3/31/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Robert Ricciardi, Professor of Microbiology

Recombinant HSV Glycoprotein gH/gL, 12/1/1997 – 11/30/2006
Funding Source: Wyeth Pharmaceuticals Inc.
Principal Investigator: Dr. Gary Cohen, Chair and Professor of Microbiology

Role of K8 bZIP Protein in KSHV Lytic DNA Replication,
9/30/2002 – 2/28/2007
Funding Source: National Institutes of Health
Principal Investigator: Dr. Yan Yuan, Associate Professor of Microbiology

Role of KSHV orfAs in Viral Immune Evasion and Replication,
1/15/2005 – 12/31/2008
Funding Source: National Institutes of Health
Principal Investigator: Dr. Fanxiu Zhu, Research Associate of Microbiology

Smallpox Subunit Vaccine in the C-PERL Expression System,
9/1/2005 – 8/31/2006
Funding Source: Chesapeake Perl, Inc.
Principal Investigator: Dr. Gary Cohen, Chair and Professor of Microbiology

Studies of Herpes Simplex Virus Glycoproteins, 6/1/2005 – 5/31/2010
Funding Source: National Institutes of Health
Principal Investigator: Dr. Gary Cohen, Chair and Professor of Microbiology

Subunit Grant for Development of Vaccine Against Smallpox within Biodefense Against Biowarfare and Emerging Infection Agents,
3/1/2005 – 2/28/2006
Funding Source: University of Maryland
Principal Investigator: Dr. Gary Cohen, Chair and Professor of Microbiology

Study of Actinobacillus Actinomycetemcomitans Virulence,
7/1/2003 – 3/31/2008
Funding Source: National Institutes of Health
Principal Investigator: Dr. Joseph DiRienzo, Professor of Microbiology

Targeting KSHV Processivity to Prevent Oral KS in AIDS,
1/15/2005 – 12/31/2008
Funding Source: National Institutes of Health
Principal Investigator: Dr. Robert Ricciardi, Professor of Microbiology

Virus and Immune Injury to Vessel Wall Cells, 7/1/2002 – 6/30/2007
Funding Source: National Institutes of Health
Co-Investigator: Dr. Gary Cohen, Chair and Professor of Microbiology; Dr. Harvey Friedman, Penn Medicine (Principal Investigator)

Department of Oral Medicine

Association between Weight and Oral Health in Urban Latino Children, 7/1/2006 – 6/30/2007
Funding Source: Robert Wood Johnson Foundation, Inc.
Principal Investigator: Dr. Andres Pinto, Assistant Professor/Clinician Educator of Oral Medicine

Dental Services – Ryan White-Title I-AACO, 3/1/2005 – 2/28/2006
Funding Source: AIDS Activities Coordinating Office
Principal Investigator: Dr. Thomas Sollecito, Associate Professor/Clinician Educator of Oral Medicine

Obesity and Oral Health in Immigrant Latino Children,
11/1/2005 – 10/31/2006
Funding Source: EXPORT Center (University of PA-Cheyney University)
Principal Investigator: Dr. Andres Pinto, Assistant Professor/Clinician Educator of Oral Medicine

Osteoradionecrosis Therapy with Human Bone Marrow Stromal Stem Cells, 1/1/2005 – 12/31/2006
Funding Source: Lance Armstrong Foundation
Principal Investigator: Dr. Sunday Akintoye, Assistant Professor of Oral Medicine

Ryan White Title I AACO- Oral Health Outreach Program,
3/1/2005 – 2/28/2006
Funding Source: AIDS Activities Coordinating Office
Principal Investigator: Dr. Thomas Sollecito, Associate Professor/Clinician Educator of Oral Medicine

Ryan White Title I Care,
3/1/2005 – 12/31/2005
Funding Source: MCP Hahnemann University
Principal Investigator: Dr. Thomas Sollecito, Associate Professor/Clinician Educator of Oral Medicine

The Philadelphia Aids Consortium-Ryan White Title II,
7/1/2005 – 6/30/2007
Funding Source: The Philadelphia Aids Consortium
Principal Investigator: Dr. Thomas Sollecito, Associate Professor/Clinician Educator of Oral Medicine

The Incidence of Amyloid Deposition in Abdominal and Oral Mucosal Tissue in Patients Initially Diagnosed with Multiple Myeloma,
7/1/2005 – 6/30/2006
Funding Source: Multiple Myeloma Foundation
Principal Investigator: Dr. Eric Stoopler, Assistant Professor/Clinician Educator of Oral Medicine

Use of Pilocarpine to Reduce the Incidence of Dental Caries in Patients with Sjogren's Syndrome-A Randomized Controlled Clinical Trial, 1/17/2005 – 6/30/2006
Funding Source: MGI Pharma Inc.
Principal Investigator: Dr. Martin Greenberg, Chair and Professor of Oral Medicine

Department of Oral Surgery/Pharmacology

Phase 3 Multicenter Randomized Blinded Controlled Study of NV-101 for Efficacy, Pharmacodynamics and Safety in Dental Patients Undergoing Mandibular Procedures, 1/25/2006 – 1/24/2007
Funding Source: Novalar Pharmaceuticals
Principal Investigator: Dr. Elliot Hersh, Professor of Oral Surgery/Pharmacology

Phase 3 Multicenter Randomized Blinded Controlled Study of NV-101 for Efficacy, Pharmacodynamics and Safety in Dental Patients Undergoing Maxillary Procedures,
1/25/2006 – 1/24/2007
Funding Source: Novalar Pharmaceuticals
Principal Investigator: Dr. Elliot Hersh, Professor of Oral Surgery/Pharmacology

Department of Pathology

Aa Ltx-Induced Cell Death,
8/1/2003 – 4/30/2008
Funding Source: National Institutes of Health
Principal Investigator: Dr. Edward Lally, Professor of Pathology

Bacteria and Lymphocyte Suppression in Periodontitis,
5/1/2001 – 2/28/2006
Funding Source: National Institutes of Health
Principal Investigator: Dr. Bruce Shenker, Chair and Professor of Pathology

Bone Growth in Dental Cranial Skeletal Tissues,
7/1/2002 – 3/31/2006
Funding Source: Thomas Jefferson University
Principal Investigator: Dr. Hydar Ali, Associate Professor of Pathology

G-Protein Coupled Receptors in Asthma and Inflammation,
7/1/2000 – 6/30/2006
Funding Source: National Institutes of Health
Principal Investigator: Dr. Hydar Ali, Associate Professor of Pathology

**Immunosuppressive Proteins
Produced by Oral Pathogens,**

5/1/2002 – 2/28/2007

Funding Source: National Institutes of Health

Principal Investigator: Dr. Bruce Shenker, Chair and Professor of Pathology

**Molecular Biology of Virulence
in Periodontal Disease,**

6/1/2001 – 3/31/2007

Funding Source: National Institutes of Health

Principal Investigator: Dr. Edward Lally, Professor of Pathology

**Role of Cell Cycle Proteins in HIV
Encephalitis,**

3/15/2005 – 1/31/2009

Funding Source: National Institutes of Health

Principal Investigator: Dr. Kelly Jordan-Sciutto, Assistant Professor of Pathology

Department of Periodontics

**A 9-Month Multicenter Clinical Trial
of Treatment with Perioline Gel
(2% Minocycline HCl) for Adjunctive
Use of Scaling and Root Planing in
Adults with Periodontal Disease:
Multicenter Randomized Trial Using
3rd Party Outcome Evaluation,**

10/31/2005 – 9/5/2007

Funding Source: Sunstar Americas Inc.

Principal Investigator: Dr. Tae-Heon Kang, Lecturer of Periodontics

**A Prospective, Randomized-
Controlled Multicenter Study of the
Osseotite,**

3/22/2005 – 9/30/2008

Funding Source: Implant Innovations

Principal Investigator: Dr. Harold Baumgarten, Clinical Professor of Periodontics

**Immediate and Delayed Loading of
Straumann 4.1mm and 4.8mm
Implants in the Posterior Mandible
and Maxilla: A Controlled
Randomized Study of Single or
Two-Three Unit Restoration Loaded
Immediately after Surgery or in the
Fourth Week after Surgery,**

1/31/2005 – 1/30/2009

Funding Source: Straumann USA

Principal Investigator: Dr. Edwin Rosenberg, Clinical Professor of Periodontics

**Protocol of Microbiological Study on
Cat Samples with Gingivitis and Buccal
Fauces,**

9/28/2004 – 6/30/2006

Funding Source: Bayer Institute for Health Care Communication

Principal Investigator: Dr. Chern-Hsiung Lai, Clinical Professor of Periodontics

**Standardized Laboratory
Toothbrush Testing #5 (Phoenix),**

10/24/2005 – 3/31/2006

Funding Source: Johnson & Johnson

Principal Investigator: Dr. Samuel Yankell, Research Professor of Periodontics

**Department of Preventive and
Restorative Sciences**

**Take Charge of Your Oral Health
Educational Program,**

11/1/2004 – 10/31/2006

Funding Source: Aetna Foundation

Principal Investigator: Dr. Yolanda Slaughter, Assistant Professor of Community Health

Office of the Dean

**Center of Excellence for Research
in Pregnancy Outcomes,**

6/1/2004 – 5/31/2008

Funding Source: Commonwealth of Pennsylvania

Co-Principal Investigators: Dr. Marjorie K. Jeffcoat, Dean and Professor of Periodontics, and Dr. George Macones, Penn Medicine

**Oral and Skeletal Bone Loss in
Older Men,**

2/1/2003 – 1/31/2006

Funding Source: Oregon Health Sciences University

Principal Investigator: Dr. Marjorie K. Jeffcoat, Dean and Professor of Periodontics

**The Efficacy of GORE RESOLUT
ADAPT LT MEMBRANES for Use in
Lateral Ridge Augmentation,**

7/18/2005 – 7/17/2007

Funding Source: W.L. Gore & Associates, Inc.

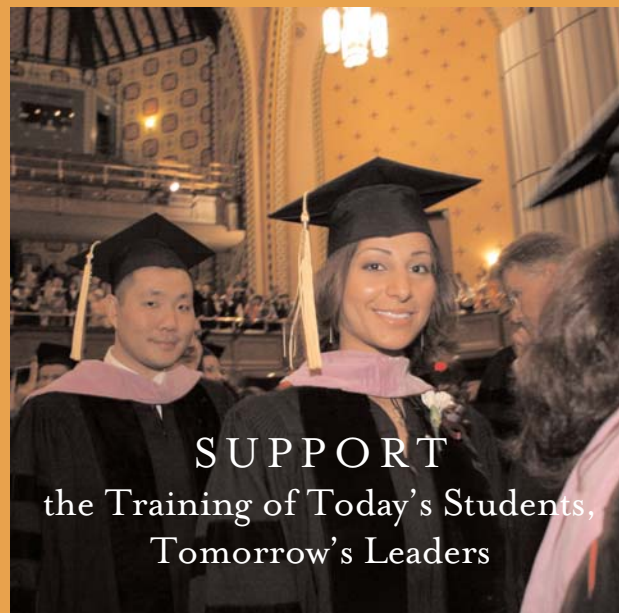
Principal Investigator: Dr. Marjorie K. Jeffcoat, Dean and Professor of Periodontics

**The Success Rate of Dental
Implants in Biophosphonate-
Treated Patients,**

1/1/2006 – 12/31/2008

Funding Source: Procter & Gamble

Principal Investigator: Dr. Marjorie K. Jeffcoat, Dean and Professor of Periodontics



Penn Dental Medicine Tuition through the Years

(not including fees, room and board, and other expenses)

1900	\$100
1925	\$300
1956	\$800 (50th Reunion Year)
1981	\$11,870 (25th Reunion Year)
2006	\$46,638

As the cost of tuition has risen through the years, so has the need for increased support of the Dental Annual Giving Fund. By supporting the training of today's students, your generosity is an investment in sustaining Penn's preeminence in dental medicine.

Please help Penn Dental Medicine continue to mold the profession's future leaders by making your gift before June 30, the end of Penn's fiscal year.

For your convenience, gifts to the Dental Annual Giving Fund can be made in several ways:

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

Philanthropy

HIGHLIGHTS

Benjamin Franklin Society Dinner Recognizes Donors, Reinstates School Tradition

With this year's Benjamin Franklin Society Dinner, Penn Dental Medicine recognized some of its most important donors, while also reinstating a School tradition. Held October 8, 2005 at the Independence Visitor Center in Philadelphia, the Dinner honored those annual giving donors who contribute on a leadership level (\$2,500 or more) and marked its return as an annual event.

"The Benjamin Franklin Society forms a critical base of support for the School," says Jim Garvey, Associate Dean for Development and Alumni Relations. "Through their vision and generosity, the members serve as powerful motivators for garnering greater participation from others. It was wonderful to bring them together



From left to right: Valerie Eisenberg Yasner (C'79, D'83, GD'86), "Benjamin Franklin", and Michael David Yasner (C'79, D'83, GD'84, GD'86).

as a group, and we look forward to having this special gathering each year." More than 50 Benjamin Franklin Society members and their guests attended the dinner.

The return of the annual Benjamin Franklin Society Dinner was the first initiative implemented by the Penn Dental Medicine Alumni Society

New Benjamin Franklin Society Donor Plaque

In January 2006, Penn Dental Medicine unveiled a new donor plaque in the Robert Schattner Center Henry Schein Atrium to recognize members of the Benjamin Franklin Society, the University of Pennsylvania's leadership unrestricted annual giving group. The generosity of these donors provides essential support for Penn Dental Medicine's highest priorities, and a stable and ever-increasing source of support that builds upon a rich history of forging precedents in dental education, research, and patient care.

The plaque will be updated annually to reflect the past fiscal year's donors of \$2,500 or more to one of Penn Dental Medicine's annual giving funds. For information on becoming a member of the Benjamin Franklin Society, please contact Joshua E. Liss, Director of Annual Giving and Alumni Programs, at (215) 898-3542 or lissj@dental.upenn.edu.



Executive Committee in response to its charge to review those traditions and customs at the School that had disappeared over time. (It has been several years since the Benjamin Franklin Society Dinner had been held.) The Executive Committee established the Traditions Ad Hoc Committee last spring. Chaired by Dean Emeritus D. Walter Cohen (C'47, D'50), it includes both alumni and student members and is helping to identify traditions, which, if renewed, would strengthen the ties of students to the School and alumni.

"I am most appreciative to the Committee members for their service to the School through this important effort," says Morton Amsterdam Dean Marjorie K. Jeffcoat, who is currently reviewing other recommendations of the Committee. "Establishing traditions plays a vital role in building community and linking Penn Dental Medicine students — past, present, and future."

2004-05 Honor Roll Omissions

In preparing the 2004-05 Honor Roll, every effort was made to ensure the accuracy and completeness in recognizing all who have generously supported Penn Dental Medicine. However, we regret that omissions did occur and would like to recognize the following donors for their contributions during the period of July 1, 2004 to June 30, 2005. We offer our sincere apology and generous thanks to the following:

Class of 1984

Mark Raymond Greco

Friends Donors

The Annenberg Foundation

REMEMBER PENN DENTAL MEDICINE

Create Your Legacy



The renovation of the Brainerd F. Swain Orthodontic Clinic in the Paul V. Reid Department of Orthodontics was made possible in part thanks to the generous bequest of Eleanor B. Reid, in memory of her husband, a former faculty member. Her legacy has helped to create a state-of-the-art environment for patient care and clinical instruction.

Many alumni and friends have provided for the future of Penn Dental Medicine and established a lasting legacy by including the School as a beneficiary in their estate plans. Bequests and beneficiary designations, both large and small, have been crucial to Penn Dental Medicine's success since its founding, and remain among the largest sources of support for Penn Dental Medicine each year.

Estate designations have endowed professorships and scholarships, allowing Penn to remain at the forefront of dental education. They have also provided funding for enhancing and developing new programs, renovating facilities, and upgrading equipment and technology. These gifts are an enduring legacy, ensuring future generations of Penn Dental Medicine students become dentistry's leading clinicians, educators, and researchers.

Including Penn Dental Medicine in your estate plans is as simple as naming the School as a beneficiary of your 401(k), IRA, or other retirement plan. For those in the highest tax brackets, such a technique not only supports Penn Dental Medicine, it also can save over 70% in estate and income taxes at death! Penn Dental Medicine also welcomes your bequest of cash, property or a percentage of your estate through your will or living trust.

Benefits of an Estate Intention

- Enables an individual to make a significant contribution that may otherwise not have been possible during their lifetime.
- The value of the estate intention is removed from a taxable estate.
- When set up as a percentage, an estate intention allows for changes in the value of your assets.

For more information on ways to create your Penn Dental Medicine legacy, contact:

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Associate Dean for Development and Alumni Relations
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240 South 40th Street
Philadelphia, PA 19104-6030
(215) 898-8952
jgarvey@ben.dev.upenn.edu
www.dental.upenn.edu/alumni

Office of Gift Planning
University of Pennsylvania
616N Franklin Building
3451 Walnut Street
Philadelphia, PA 19104-6285
(800) 223-8236 / (215) 898-6171
giftplanning@ben.dev.upenn.edu
www.alumni.upenn.edu/giftplanning

Did you know that Penn Charitable Gift Annuity rates vary from 5% to 9.5% depending upon your age? With an annuity, you can support Penn Dental Medicine and help yourself by receiving guaranteed income for life. Please contact us for more information!

Alumni

NEWS

ALUMNI PROFILE: THE GENERATIONS REFLECT

Archaeologists studying ancient human remains tell of early civilizations in the Indus Valley, circa 3000 B.C., performing rudimentary dental care. They've even found dentures, made of ivory and bone, dating back to 700 B.C. Historians document more recent developments — the invention of the first reclining dental chair in 1832; a patent for the electric dental drill 39 years later; and the introduction of the local anesthetic procaine hydrochloride (later marketed as Novocain) right after the turn of the century. But developments within dentistry quickened their pace with the last few generations of practitioners, who have wrought sweeping changes in the way oral care is administered.

Three alumni celebrating reunions in 2006 discuss transformations and trends they have witnessed in their field since they graduated 50, 25, and 10 years ago, respectively. They also reflect on their own careers and postulate on future directions for dental medicine.

Dr. Vincent A. Callery (D'56, GD'59) is a retired orthodontist from Pottsville, Pa. Upon earning his DMD at Penn Dental Medicine, Dr. Callery developed his dental skills in the Navy, where he treated military personnel at a base in Maryland. After serving for two years, he resumed his studies at Penn Dental Medicine, earning a certificate in orthodontics. Dr. Callery returned to his hometown of Pottsville to open a dental clinic. There, he practiced orthodontics — initially geared to pedi-

atric patients and later to adult patients as well — until his retirement seven years ago at the age of 68.

Dr. Patricia A. Ludwig (CW'74, D'81) is a general practitioner in Bethlehem, Pa., where she runs her family's third-generation dental practice. After earning undergraduate degrees in elementary education and biology at Penn, Dr. Ludwig worked as a laboratory assistant in Penn's



Dr. Vincent A. Callery
(D'56, GD'59)

Department of Biochemistry and Biophysics. She set her sights on a career in bench science, but her boss steered her toward more "practical" pursuits. After graduating from dental school at the age of 30, Dr. Ludwig completed a general practice residency at the Hospital of the University of Pennsylvania (HUP) (where she met future husband Dr. Laurence D. Popowich (GD'81), now an oral surgeon)

and then returned home to join her father, Dr. Jacob H. Ludwig, Jr. (D'44) in practice.

Dr. Victoria L. Malz (D'96) runs a practice — McKee Dental — in Matthews, N.C. with her husband Dr. Ryan Woodman (D'95). A Long Island native, Dr. Malz studied child development and psychology at Tufts University. She decided to go to dental school because of the "great need for dental care for inner-city kids." Following a general practice residency at the prestigious North Shore University Hospital in Manhasset, N.Y., Dr. Malz entered a group practice in nearby Lindenhurst, while also delivering care to special-needs patients. Last summer, Dr. Malz and her husband relocated to Charlotte, N.C., for its quality of life, lower cost structure, and burgeoning population of potential clients.

All three share their views on their career choices:

Dr. Callery initially pursued pediatric orthodontics for the chance to work with young, healthy patients. Over the years, he has relished the opportunity to tackle vexing cases of malocclusion and provide his patients with bites and smiles that better serve their lives.

Dr. Ludwig, who treats a number of elderly individuals who were originally her grandfather's patients, has enjoyed continuing the family dental heritage (sister Amy L. Ludwig (D'83), a prosthodontist, practices in Manhattan). She calls dentistry the perfect blend of art and science. "You really have to be a sculptor and have an eye for shape and color," she says. But, the true lure for Dr. Ludwig is this: "Nothing gives me more pleasure than to see how patients change the way they present themselves because they feel better about the way they look and are enjoying good oral health."

While offering a good livelihood and technical challenge, dentistry has offered Dr. Malz the chance to serve those less fortunate. Of her work with nursing home patients and United Cerebral Palsy of New York City, she says, "We come to them. We treat a lot of these people while they are in their wheelchairs."

... transformations in the practice of dentistry:

Infection control/hygiene barriers came of age during Dr. Callery's 40 years in practice; it wasn't until his last decade of working that he wore a mask and gloves. Dr. Ludwig worked without protective devices until her residency, when the first AIDS case at HUP was identified in 1981. Dr. Malz has always used barriers, which she learned about in school, although she has observed

advances in such procedures during her 10 years in practice.

"I use a mask, gloves, glasses, and a waterproof lab coat with every patient," she says. "Our chairs get spray sterilized between patients, and, with each patient, we use new sterile barrier sheets on lights, buttons, and anything else we need to touch during a procedure."

In her 25 years of dentistry, Dr. Ludwig has experienced innovations in a number of aesthetic offerings, such as dental implants, bonding/light-cured resins, porcelain laminates, and tooth bleaching.

She says four-handed dentistry (working with an assistant at one's side) and working from a seated, rather than standing, position are procedural alterations she brought to her father's practice. "And in the past 15 to 20 years, the advent of computers has changed everything from practice management to patient treatment," adds Dr. Ludwig.

"In dentistry, techniques are always being remodeled and materials are constantly changing," Dr. Callery observes. Braces, for instance, have become less "metallic" as a result of the introduction of ceramics and bonding. Higher-speed films, notes Dr. Callery, have reduced radiation exposure. And digital radiography, says Dr. Malz, facilitates rapid transmission of x-rays to specialists for consultation.

In the last few years, Dr. Malz adds, lasers and fiber optics have spawned a new generation of dental tools that have improved diagnostics as well as visibility within the oral cavity.

... changing oral health problems:

Dr. Callery has witnessed first-hand the effects of the fluoride revolution, which peaked some 40 years ago when most municipal water supplies were making the fluoride switch. Because

Philadelphia tap water was fluoridated during his school years, Dr. Callery recalls, "We had to search for patients in New Jersey and the suburbs of Philadelphia."

While in school, Dr. Ludwig saw patients in their 40s and 50s with half of their teeth missing. But she says that fluoride has brought about tangible changes during her time in practice. "I see lots of 20- and 30-year-olds with excellent teeth," she says.

Although she observes a disturbing incidence of soda and sports-drink consumption among children — and the decay that dovetails with it — Dr. Ludwig sees fewer caries overall among children. She attributes this to better prepartum nutrition, fluoride in the local water supplies, improved toothpastes, rising use of electric toothbrushes and floss, and application of sealants in children with deep-grooved molars.

... evolving trends in access to care:

A key barrier to access to dental care has always been financial, says Dr.

Callery, who estimates that only half of the population scheduled routine dental visits when he started out in practice. "Before, it was only people who had some sort of wealth," he remembers. "Now it's everybody." And braces were a luxury. "If you had food to eat, you were lucky. Never mind straight teeth."

Dr. Callery largely credits insurance programs

— which began to build momentum some 25 years ago — with improved access to dental care. Dr. Malz adds that dental clinics — including specialty practices, have expanded in number. She has observed many New York practices, for instance, launch outreach efforts to lower-income patients by

opening satellite offices in inner-city locations like the Bronx and Brooklyn. And she has also seen some states, in an effort to attract dentists, simplify their licensing requirements.

... hopes for the future:

Dr. Malz hopes access to dental care continues to improve, and that both

patients and dentists learn how to better navigate the insurance system. She would also like to see greater efforts to educate patients about preventable problems — like baby bottle decay — and prophylactic measures — like sealants.

The eradication of caries, through preventive efforts that range from proper diet to sealant

application and use of fluoride products, is one of Dr. Callery's dreams. And Dr. Ludwig wishes for the preservation of those elements of dentistry that have driven her zest for her work. "I hope dentistry continues to be the stimulating, rewarding, and challenging profession that I've found it to be."



Dr. Victoria L. Malz (D'96)



Dr. Patricia A. Ludwig (CW'74, D'81)

Penn Dental Medicine Web Site A Career Opportunities Resource

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



Alumni Society Offers Student Mentoring Through Career Series

The Penn Dental Medicine Alumni Society launched a new mentoring program this academic year, developing a career series that offered students insight into all of the dental specialties as well as general practice. Held in the School's Sig Seigel Alumni Center and Conference Room, the series ran from October through December and featured six different sessions.

"Rather than one-on-one mentoring, we thought we could reach more students through a series of comprehensive, yet informal, panel presentations," says Dr. Tara Sexton (D'88), President of the Alumni Society. "Our goal was to give students a clear understanding of dentistry's varied career opportunities by enabling them to talk directly to people in different fields. It was very well received."

Each session was hosted and organized by a member of the Alumni Society and featured a panel of at least one faculty member, practitioner, and resident, who talked about their professional paths and answered students' specific questions. The session hosts included Dr. Spencer Carl Saint-Cyr (D'97) for endodontics, Dr. Patti Lee Werther (D'78, GED'78, GD'81) for pediatrics, Dr. Marc B. Ackerman (D'98) for orthodontics, Dr. Lawrence M. Levin (D'87, GD'92) for oral surgery, Dr. Laura Minsk (C'88, GD'94) for periodontics, and Dr. Margrit M. Maggio (D'87) for general dentistry.

The Alumni Society held a career series for students that featured six sessions, addressing all of the dental specialties as well as general practice.

"The students were extremely interested and asked great questions," notes Dr. Maggio, Lecturer of Preventive and Restorative Sciences, who organized the general dentistry panel. "One of our goals through the series was to build student awareness of the Alumni Society and let them know that alumni are there as a resource to draw upon during their time in School and afterward. All of the panelists offered students the opportunity to visit their practices if they were interested."

Every session drew students from all four classes with approximately 30 to 40 students attending each program. The popularity has prompted the Alumni Society to make the career series an annual event. Beginning this coming fall, the series will be renamed the Dr. Victor H. Frank Alumni Career Series, supported by the Victor Frank Memorial Fund, which was established in memory of Dr. Victor H. Frank (D'21) by his family. In the past, the Fund supported an annual continuing dental education course held during Alumni Faculty Senior Day.

"We are appreciative to Dr. Frank's family for directing their support to the series and helping to ensure its ongoing success," says Dr. Sexton. "We also thank those alumni who shared their time with students as part of this year's series and encourage others to get involved in next fall's program."

Alumni Society Elects Four New Members

At its January 11, 2006 meeting, the Penn Dental Medicine Alumni Society Executive Committee elected four alumni to serve as new members-at-large. These newly elected members are Ronald J. Gutman (D'74), Erika Johnston (D'04), Donald H. Silverman (D'73, WG'74), and Dean Ford Sophocles (D'87).

"We are thrilled to welcome these new members and equally grateful for the service of those individuals whose terms have recently ended," says Alumni Society President Tara Sexton (D'88). "All play a valuable role in the Executive Committee's goals of supporting Penn Dental Medicine, the students, and our fellow alumni." Ending their terms this year as members-at-large are Thomas E. Boytim (D'79), Richard R. Chillemi (D'62), Adena M. Goldman (GD'01), Samuel I. Kratchman (GD'91), and Michael A. Perillo (D'93, GD'95).

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

Penn Dental Journal Digitized!

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

The digital version uses Adobe Acrobat Reader, software that you probably already have or can download for free at www.adobe.com. Read it at your desktop, take it with you on your laptop, or print out the articles that interest you.

Alumni Gatherings

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



ADA Alumni Reception

Penn Dental Medicine held a reception on October 7, 2005, at the Philadelphia Marriott Downtown for alumni attending the American Dental Association Annual Session. University President Amy Gutmann and the Penn Glee Club helped to welcome back to Philadelphia more than 200 alumni from across the country and around the world.

3 From left to right: Tara Sexton (D'88), President, Penn Dental Medicine Alumni Society; Martin D. Levin (D'72, GD'74), Chair, Penn Dental Medicine Board of Overseers; Amy Gutmann; Robert I. Schattner (D'48); and Morton Amsterdam Dean Marjorie K. Jeffcoat.



Greater New York

Dental Meeting Alumni Reception

Penn Dental Medicine held a reception on November 29, 2005, at the New York Marriott Marquis Times Square for alumni attending the Greater New York Dental Meeting. The reception helped to reconnect 40 alumni to Penn Dental Medicine and each other.

1 From left to right: Morton Amsterdam Dean Marjorie K. Jeffcoat, P. Deborah Weisfuse (D'77), Gail Ellen Schupak (D'83), Alisa G. Kauffman (D'85), and Robin Cohen Feinberg (C'79, D'83).

2 From left to right: Nicholas G. Pituras (D'59), James A. Tsigouni (D'58), Anthony Agag (D'59), and Martin D. Levin (D'72, GD'74).

Yankee Dental Congress Alumni Reception

Penn Dental Medicine held a reception on January 27, 2006, at the Boston Marriott Copley Place. The reception brought together nearly 40 alumni who were attending the Yankee Dental Congress.

4 Morton Amsterdam Dean Marjorie K. Jeffcoat with Myron Allukian Jr. (D'64).

5 From left to right: Otis T. Chong (D'05), Anthea S. Williams (D'05), Courtney J. Ullrich (D'05), Marlene Miller (D'04), and Shawn L. Miller (D'04).



Southern California Alumni Reception

On January 26, 2006, George Georgieff (GD'62) and his wife, Joyce, hosted a reception in honor of Morton Amsterdam Dean Marjorie K. Jeffcoat for alumni living in Southern California. A dozen alumni gathered to reminisce about their days at Penn Dental Medicine and to visit with former classmates and friends.

6 From left to right: George Georgieff (GD'62), Dr. Sanford Ratner, and Michael J. McDonald (D'81).



Alumni

CLASS NOTES

1950's

Reuben E. V. Miller, Jr. (D'52) was honored in September 2005 with the establishment of the Rotary Club of Easton/Reuben E. V. "Bud" Miller Dental Clinic at The Children's Home of Easton in Easton, Pa. The Easton Rotary Service Foundation made the gift to establish the clinic in honor of Dr. Miller, who is a former president of the Rotary Club of Easton. The clinic will provide dental care for children living at The Children's Home, a private, nonprofit agency providing both therapeutic home- and community-based programs for troubled youths from dysfunctional families.

Harold B. Ginsberg (D'56) still practices and is an avid golf player. He and his wife, Phyllis, have been married for 53 years. They have three children and seven grandchildren. Phyllis is retired from teaching and enjoys watercolor painting.

In 1996, **Paul G. Mosch (C'54, D'56)** retired after 38 years of practicing in Coudersport, Pa. Living now in Gibsonsia, Pa., he is very active at Hampton Presbyterian Church, performing in the church choir and serving as a deacon and elder on session. Dr. Mosch is a volunteer with Hosanna Industries, Inc., a faith-based nonprofit organization that builds and repairs homes for low and very-low income families. In his spare time, his hobby is working with Lionel electric toy trains. He also flew the Beechcraft Bonanza aircraft for 39 years.



From left to right: Robert C. Westcott (D'57) with his wife, Lillian, receives the Jarvie-Burkhart Award from Dr. G. Kirk Gleason, Second District Trustee, American Dental Association.

Robert C. Westcott (D'57) received the New York State Dental Association Jarvie-Burkhart Award in November 2005. It is the highest honor presented by the organization and recognizes outstanding service to mankind through dentistry. Dr. Westcott has been an active participant in organized dentistry. His philanthropic endeavors in the field include his extensive work with the Glens Falls Hospital in upstate New York, where he is a former chair of its Board of Governors and its Foundation Board. His vision 30 years ago was the inspiration for a community health program with the Glens Falls Hospital and its Pediatric Mobile Dental Program. The initial dental van, a one-room trailer towed to schools, is now a modern, state-of-the-art, 335-square-foot mobile dental facility that has become a model for rural pediatric dental programs everywhere. Today, the dental van travels to schools serving children who otherwise would not have access to dental care.

Harold A. DeHaven, Jr. (D'59),

Clinical Associate Professor in the Penn Dental Medicine Department of Periodontics, received the J. George Coslet Distinguished Teaching Award at the department's postdoctoral graduation ceremony in June 2005. Dr. DeHaven has served on the associated faculty for over 25 years.

1960's

Both the American Dental Association and the Connecticut State Dental Association honored **Michael M. Perl (D'64)** in May 2005 with distinguished service awards for his work on behalf of the Access to Dental Care project. Dr. Perl is responsible for recruiting dentists to provide pro bono dental care at public health clinics for children enrolled in Connecticut's Medicaid program.

In January 2006, the Seattle Study Club honored **Arnold S. Weisgold (GD'65)** with the Saul Schluger Memorial Award for Clinical Excellence in Diagnosis and Treatment Planning.

Karen K. Brown (DH'67) owns Belhaven Inn, a bed and breakfast, located on the Intracoastal Waterway, in Belhaven, N.C.

I. Stephen Brown (GD'69) was inducted as a Fellow of the International College of Dentists (ICD) during the American Dental Association Annual Session in October 2005. The ICD is a worldwide honorary dental association dedicated to the recognition of outstanding professional achievement, service, and the continued progress of the profession of dentistry. Dr. Brown maintains a private practice specializing in periodontics and dental implants in Center City Philadelphia. An avid skier, Dr. Brown is a certified ski instructor at Elk Mountain, Pa., and a member of the Professional Ski Instructors of America.

1970's



Dr. Louis Rose (GD'70) spoke at the American Medical Association and American Dental Association media briefing, *Oral and Systemic Health: Exploring the Connection*, held in New York City in February 2006. He addressed the relationship between diabetes and periodontal disease, noting that periodontal disease is considered the sixth complication of diabetes. Dr. Rose, whose Philadelphia practice sees a large percentage of diabetic patients, says in recent years he has noticed physicians being more proactive about their diabetic patients' oral health as there has been more research and education on the link between oral and systemic health.

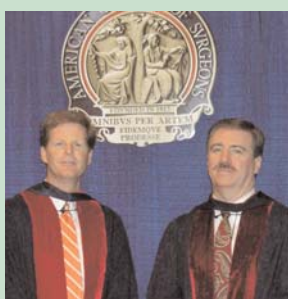
In September 2005, the University of the Pacific Arthur A. Dugoni School of Dentistry named **Robert L. Boyd (GD'74)** as the first recipient of the Dr. Frederick T. West Endowed Chair in Orthodontics. Dr. Boyd, Professor and Chair of Pacific's Department of Orthodontics since 1996, is a renowned educator and researcher whose primary research interest involves quantifying potential damage to periodontal tissues during orthodontic treatment. With a career dedicated to education and research, Dr. Boyd has published more than 100 scientific articles, chapters, and abstracts, as well as presented more than 375 continuing education courses and lectures to dental organizations worldwide.

Spencer Z. Forman's (D'75) son, Robert, will graduate in May 2006 from the Wharton School with a Bachelor of Science in Economics degree.

Madeline S. Ginzburg (D'79, GD'80) is the new Chair of the New York State Dental Association Council of Dental Education and Licensure. She practices in New York City.

1980's

Michael W. Lew (D'83) has been appointed to the Dental Board of California, which has a mission to protect and promote the health and safety of California consumers by licensing those dental health care professionals who demonstrate competency, take action to maintain the appropriate standard of care, and enhance the education of licensees and consumers. Dr. Lew has served as a Trustee for the California Dental Association since 2001 and is Treasurer of the California Academy of General Dentistry. He is also a member of the Marin County Dental Society, the International Congress of Oral Implantologists, American Academy of Cosmetic Dentistry, the Pierre Fauchard Academy, and the American College of Dentists.



Eric R. Carlson (left, D'85) and **David C. Stanton (D'88, M'92, GD'95)** were both inducted as Fellows of the American College of Surgeons (ACS) at its annual Clinical Congress in October 2005. Dr. Carlson is Professor and Chairman of the Department of Oral and Maxillofacial Surgery at the University of Tennessee Graduate School of Medicine. Dr. Stanton is Associate Professor and Residency Program Director of Oral and Maxillofacial Surgery at Penn. The ACS is a scientific and educational association of surgeons that was founded in 1913 to raise the standards of surgical education and practice and to improve the care of the surgical patient.

David A. Sirois (D'87, GD'92, GR'93), Associate Professor and Chair of the Department of Oral Medicine and Head of the Division of Reconstructive and Comprehensive Care at the New York University College of Dentistry, was recently appointed Associate Dean for Graduate Programs. In his new role, Dr. Sirois will partner with faculty to enhance the College's graduate degree programs and postgraduate specialty programs. Dr. Sirois is President of the International Pemphigus Foundation Board of Directors. The Foundation is dedicated to providing information and support to the community of people living with the rare autoimmune skin diseases pemphigus and pemphigoid.

1990's

Robert F. Utberg (D'91) writes, "My wife, Jennifer, and I had our first baby! Bode Robert Utberg entered this world April 7, 2005. Almost a year old and almost walking. Hello to all my classmates of '91."

Jody D. Zalkin (D'92), who practices in Highland Park, Ill., is married to Philipp Weisskopf, and they have two sons, David Oren (six-years-old) and Joshua Adam (five-years-old).



Paul L. Boger (D'93) and **Betsy Grand Kaplan (D'93)** recently joined a volunteer dental team to deliver dental care to children of the Rio Dulce region of Guatemala. They worked in a clinic run by Asociación Rescate (a nonprofit organization serving Guatemala's indigenous population) for four days and saw more than 380 kids in that time. Dr. Boger is a solo practitioner in Warren, Pa., and Dr. Kaplan is a partner at Camarillo Children's Dental Group in Camarillo, Calif.

Alumni Weekend May 12–13, 2006

Alumni Weekend is the time to connect with friends old and new. Whether you graduated five or 50 years ago, we hope that you will come celebrate with us and reconnect with **Penn Dental Medicine. Alumni Weekend 2006 is May 12–13**, and will celebrate the reunions for classes ending in "1" and "6." Some of this year's activities include:

- **"Swashbuckling Dentists"**—Samuel Hughes, Senior Editor of *The Pennsylvania Gazette*, will speak about Penn Dental Medicine's legends, including Thomas Evans, Zane Grey, and Doc Holliday.
- **Women's Forum Presentation**—"Advances in Implant Dentistry"
- **Student-Led Dental School Tours and DentSim Lab Open House**
- **Dental School Admissions Seminar**—Corky Cacas, Director of Admissions, will speak about the recent changes to the dental school admissions process and answer your questions about applying to dental school.
- **Alumni Picnic**
- **Reunion Class Dinners**—Held at the Union League of Philadelphia, the evening will begin with a cocktail reception for all reunion alumni followed by individual class dinners. The 2006 Alumni Awards of Merit will be presented during the cocktail reception.

For the complete schedule of events, to see who's coming, for hotel reservation and tourist information, or to register through a secure online transaction, visit the Alumni Weekend web site www.dental.upenn.edu/alumnizoo6. We look forward to welcoming you back!



Jennifer N. Forshey (C'94, D'97) writes "I received a MD from Harvard Medical School in 2000 and completed the oral and maxillofacial surgery residency at Massachusetts General Hospital in 2003. I married my high-school sweetheart in 2004, and I am currently a private practice oral surgeon in Central Pennsylvania. I am coordinating the development of the Central Pennsylvania Women's Dental Association, an affiliate of the American Association of Women Dentists. On behalf of the association, I would like to offer a sponsored visit of female Penn Dental Medicine students to the offices of the many female practitioners of various specialties in my area ... if interested, please contact me by email: jen@forshey.net"

Alena R. Spielberg (D'97) is currently living in Apex, N.C., with her husband, Todd, who is a general dentist. In 1999, Dr. Spielberg received a Certificate in Orthodontics at Tufts University School of Dental Medicine. She opened her own practice in January 2001. She and her husband are very excited about the birth of their daughter, Courtney Fay, on January 22, 2005.

2000's

Margaret E. Polifko (D'04) is practicing general dentistry in the U.S. Navy on board the USS Dwight D. Eisenhower, an aircraft carrier based at Naval Station Norfolk, Va. Dr. Polifko recently married Captain Steven Fisher, a periodontist, on December 19, 2005. They honeymooned in New York City and plan to settle in the Washington, D.C. area.

Linda Jubiril (D'04) married Abram Taylor, Jr. on November 26, 2005. Their wedding was profiled in the January 8, 2006 edition of *The Philadelphia Inquirer*.

Stanley Montee (D'04) graduated from the one-year Advanced Education in General Dentistry program at Ft. Campbell, Ky., on October 1, 2005. As part of the Multinational Force and Observers (MFO), Dr. Montee is currently serving in the Sinai Peninsula as Officer-in-Charge of the North Camp Dental Clinic and Chief of Dental Services, 1st U.S. Army Support Battalion, Task Force Sinai, XVIII Airborne Corps. The MFO is an independent peacekeeping

mission, created as a result of the 1978 Camp David Accords and the 1979 Treaty of Peace.

As the MFO dental surgeon, Dr. Montee oversees the operations of two dental clinics as well as one dentist each from the United States, Colombia, and Fiji. They treat approximately 2,400 members in an austere environment for routine dental care, which includes preventive dentistry, operative, endodontics, and limited periodontics. Prosthodontics is generally not available in this environment. According to Dr. Montee, "I am happy with this assignment as it presents unique challenges for the dental practitioner."

Share Your News

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

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Robert Schattner Center
University of Pennsylvania
School of Dental Medicine
Office of Development and Alumni Relations
240 South 40th Street
Philadelphia, PA 19104-6030
215-898-8951 (p)
215-573-1791 (f)
mrmccarr@ben.dev.upenn.edu

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- 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.



Penn

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215.898.6888 ■ aca@ben.dev.upenn.edu ■ www.alumni.upenn.edu/aca

In Memoriam



Dr. Eisa Mozaffari Remembered

It is with warm memories and deep appreciation that Penn Dental Medicine remembers the service and commitment of Dr. Eisa Mozaffari (GD'80, D'04). Dr. Mozaffari, who lost his life to leukemia on January 7, 2006 at the age of 53, was Director of the Radiology Clinic at Penn Dental Medicine and a member of the faculty of the Department of Oral Medicine. Faculty, students, and staff gathered to honor Dr. Mozaffari at a memorial service and reception held at Penn Dental Medicine on February 8, 2006.

"Eisa was a colleague of outstanding character and great kindness who was devoted to his students at Penn Dental Medicine," said Dr. Martin Greenberg, Chair of the Department of Oral Medicine. "He could always be found from early in the morning, through lunch, and often into the evening in the Radiology teaching room in order to teach one more student one more lesson in Radiology. We will be forever grateful for the talent and friendship he shared with us."

A native of Iran, Dr. Mozaffari first came to Penn Dental Medicine in 1977 as a postgraduate student after earning his DMD from Shiraz University School of Dental Medicine, Shiraz, Iran. He completed a general practice residency here and earned a postgraduate certificate in Oral and Maxillofacial Radiology. Dr. Mozaffari returned to Shiraz University in 1981 to become part of its dental faculty, rising through the academic ranks and ultimately becoming Dean of the School of Dental Medicine. In 1999, he came back to Penn Dental Medicine, joining the faculty of the Department of Oral Medicine, first as a Clinical Assistant Professor of Oral Diagnosis and Radiology and then as a Lecturer. Since December 2005, he has also served as Director of the Radiology Clinic.

A memorial fund has been established in honor of Dr. Mozaffari by his family, colleagues, and students. The fund has already collected over \$7,500 and the students of Penn Dental Medicine have generously pledged \$2,700. Contributions to the fund should be made out to the Trustees of the University of Pennsylvania and can be sent to the Department of Oral Medicine c/o Dr. Martin Greenberg.



James A. Paradisi (D'27)

Boynton, Fla., December 11, 2005

Marion Grove Metten (DH'32)

Swanton, Vt., October 22, 2002

Albert H. Rudner (D'34)

New York, N.Y., December 10, 2005

Murray L. Knopf (D'38)

Mount Kisco, N.Y., April 19, 2005

M. Sandbeck Roney (DH'38)

Newport Beach, Calif.,
January 1, 2006

Jean C. Senio (DH'38)

New Milford, Conn.,
December 31, 2005

John D. Burr (D'39)

Louisville, Ky., July 31, 2005

Jane Sullivan Collins (DH'39, D'51)

Mahwah, N.J., November 10, 2003

Joseph J. Donofrio (D'39)

Montclair, N.J., January 8, 2005

Frances Silber Krakower (DH'39)

Media, Pa., January 23, 2006

Emil P. Traina (D'39)

Tenafly, N.J., July 1, 2005

Bertha J. Davidson (DH'40)

Stratford, Conn., November 15, 2005

Bernard J. Zeldow (D'40)

Binghamton, N.Y., October 5, 2005

Harry Bassin (D'41)

Peekskill, N.Y., June 8, 2003

Harold Boxer (D'41, GD'47)

Sun City, Ariz., December 21, 2003

Natalie H. Davis (DH'41)

Ocean City, Md., April 25, 2005

Josephine A. Fischer (DH'41)

Media, Pa., August 18, 2005

Mary Grooby Kobland (DH'41)

Lafayette Hill, Pa., August 1, 2003

Marvin Greenwald (C'40, D'42)

Atlanta, Ga., October 10, 2005

Marjory M. Whitney (DH'42)

Manlius, N.Y., October 9, 2005

Herman M. Crowder, Jr. (D'43)

Memphis, Tenn., June 9, 2004

Helen S. Delaney (DH'43)

Spring Grove, Pa., January 22, 2006

Andrea T. Horner (DH'44)

Lebanon, Pa., November 19, 2004

Emil S. Kustin, (D'44)

Boynton Beach, Fla.,
October 27, 2005

Herbert Pinsley (D'44)

Boca Raton, Fla., January 1, 2005

Francis deSales Tucker (D'44)

San Jose, Calif., June 12, 2005

Kathryn W. Weidman (DH'44)

Haverford, Pa., August 3, 2005

Robert M. Bernhardt (D'45)

Wilmington, Del., June 10, 2005

Harold E. Glazier (D'45)

Bethlehem, Pa., August 29, 2005

Samuel A. Stone (D'45)

New Haven, Conn., January 1, 2002

Charles W. Bast (C'45, D'46)

Sea Island, Ga., August 5, 2005

Peter F. Fedi, Jr. (C'45, D'46)

Sun City Center, Fla., June 1, 2004

Charles H. Hammil (D'46)

Livingston, N.J., February 15, 2005

Jane Kuhlmann Wister (DH'46)

Wyndmoor, Pa., January 9, 2005

Gilbert H. Blum (D'47)

Scottsdale, Ariz., October 22, 2005

Lee A. Krimmer (D'49, GM'53)

Ridgewood, N.J., October 29, 2005

Elinor Reilly Martin (DH'49)

Yonkers, N.Y., May 1, 1986

Jerome Jacobs (D'50, INT'51)

Miami Beach, Fla., February 25, 2005

(continued on page 36)

In Memoriam

(C o n t i n u e d)

Samuel F. Larue (D'50)

Chippewa Falls, Wis.,
September 24, 2005

William K. Ovalle (D'50)

Bryn Mawr, Pa., November 15, 2005

Marleen Maxwell Burt (DH'51)

Forked River, N.J., April 2, 2005

Leslie B. Gore (D'51)

Virginia Beach, Va.,
October 10, 2005

Edward B. Kalbach (D'51)

Denver, Pa., October 20, 2005

Robert J. Farrell (C'49, D'52)

Ponte Vedra Beach, Fla.,
October 1, 2005

Frederick F. Inners, Jr. (D'52)

York, Pa., May 22, 2005

Gerald W. Kronfeld (D'52)

Chadds Ford, Pa., August 16, 2005

John R. King (D'53)

Fairfield, Conn., June 29, 2005

John W. Conover III (D'54)

Galloway, N.J., May 1, 2005

Betty Eaton Koechling (DH'54)

Cambridge, Ohio, August 1, 2005

Mary Leonard Mahoney (DH'54)

Wilmington, N.C., January 22, 2005

James F. Mercer (D'54)

Akron, Ohio, January 1, 2002

Charles Walter Curran, Sr. (D'55)

Wynnewood, Pa.,
September 28, 2003

Beryl Lederle Wilcox (DH'55)

Cortland, N.Y., May 1, 2005

Stanley H. Wilkins (D'55)

Basking Ridge, N.J., January 22, 2006

Calvin Dale Nester (D'56)

Virginia Beach, Va.,
November 14, 2005

Noel David Wilkie (D'57)

Rockville, Md., October 16, 2005

Edward T. Cauley (GD'59)

Naples, Fla., May 13, 2005

Henry J. Faller (D'59)

Bolton Landing, N.Y., July 2, 2005

Benton M. Cole (GD'63)

Lyndhurst, Ohio, May 2004

H. Paul Hufham, Jr. (GD'63)

Dothan, Ala., May 22, 2005

Howard M. Skurow (D'63)

Swampscott, Mass.,
November 27, 2005

John A. Flavia (D'65)

Norwalk, Conn., December 19, 2002

Bernard Sirota (D'65)

Commack, N.Y., January 23, 2005

Robert D. Wisch (D'67)

Odenton, Md., July 26, 2005

Michael J. Ruggieri (D'68)

Philadelphia, Pa.,
November 19, 2005

Everett H. Silverman (D'68)

Halesite, N.Y., January 1, 2005

Arnold Randel (D'77)

Blue Bell, Pa., October 26, 2005

Eisa Mozaffari (GD'78, GD'80, D'04)

Blue Bell, Pa., January 7, 2006

Jon M. Kraut (D'82)

Trenton, N.J., February 3, 2006

Anthony D. Guerrieri (C'80, D'84)

Marlton, N.J., September 25, 2005

Matthew F. Granoff (D'86, GD'87, GD'88)

Cherry Hill, N.J., September 8, 2005

Alumni Connections

Find a former classmate and sign up for an email forwarding service through the University of Pennsylvania Alumni On-Line Community. Register free at www.alumniconnections.com/olc/pub/UPN and search the On-Line 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 the University of Pennsylvania Alumni On-Line Community Directory at www.alumniconnections.com/olc/pub/UPN/. Or, contact Mary McCarron at 215-898-8951 or mrmccarr@ben.dev.upenn.edu.

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Request a transcript through the School's Office of Student Affairs at 215-898-8940 if you graduated in 2000 or earlier. If you graduated in 2001 or later, visit the Office of the University Registrar's web site at www.upenn.edu/registrar/transcripts/transcripts.html or call 215-898-7511.

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

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

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

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

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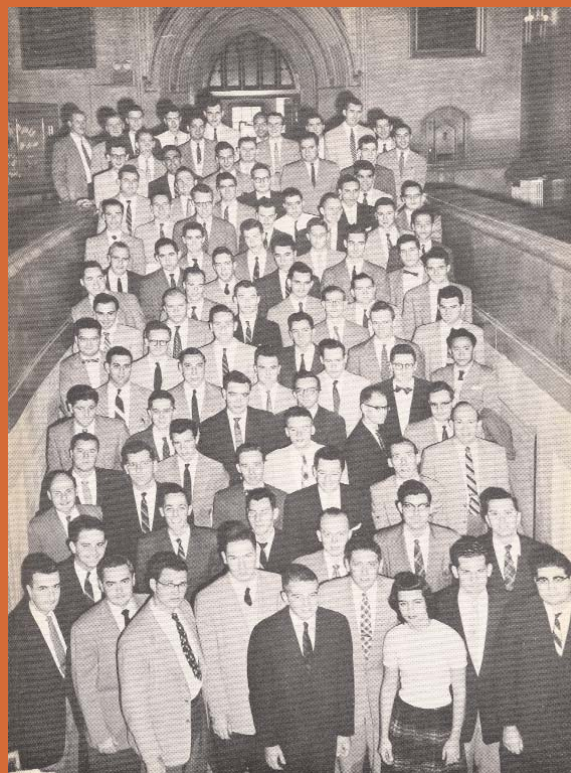
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**Congratulations Class of 1956, celebrating its 50th reunion on
Alumni Weekend 2006!**

Photo: The 1956 Dental Record (yearbook)

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Calendar

O F E V E N T S

Programs & Events

May 9, 2006

Senior Farewell 2006
Loews Philadelphia Hotel
Philadelphia, Pa.
6–10 p.m.

May 12–13, 2006

Alumni Weekend 2006
Reunions for classes ending in “4” and “6”
Philadelphia, Pa.
For information, visit www.dental.upenn.edu/alumni2006

May 15, 2006

Class of 2006 Commencement
Speaker: Dushanka V. Kleinman, DDS, MScD
Irvine Auditorium
Philadelphia, Pa.
1 p.m.

August 21, 2006

Class of 2010 White Coat Ceremony
University of Pennsylvania Museum
of Archaeology and Anthropology
Philadelphia, Pa.
5:30 p.m.

September 18, 2006

Alumni Reception
American Academy of Periodontology
Annual Meeting
Location to be Announced
San Diego, Calif.
6–7:30 p.m.

October 6, 2006

Alumni Reception
American Association of Oral and
Maxillofacial Surgeons Annual Meeting
Location to be Announced
San Diego, Calif.
6–7:30 p.m.

November 4, 2006

2006 Benjamin Franklin Society Dinner
Old Original Bookbinder's
Philadelphia, Pa.
7–10 p.m.

November 28, 2006

Alumni Reception
Greater New York Dental Meeting
Location to be Announced
New York, NY
5:30–7 p.m.

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

Continuing Dental Education Courses

June 1–3, 2006

Ivy League Bone Symposium:
50th Anniversary of Periodontics and
Periodontal Prosthesis Program
Speakers: David Garber (GD'78, D'81),
John Kois (D'77), Massimo Simion,
Dennis Tarnow, Myron Nevins (D'63),
Jan Lindhe, Michael McGuire, Marjorie
Jeffcoat, Marc Nevins, Robert Genco
(D'67), William Giannobile, Jeffery
Hollinger, Ken Kornman, Ole Jensen,
Robert Marx, Brian Mealey, Myron
Spector, Ray Williams, Gilbert Triplett,
John Wozney, William Becker, Stuart
Froum, and Joseph Fiorellini
June 1: 12 p.m. to 5 p.m., June 2 & 3:
8:30 a.m. to 5 p.m., 18 CDE lecture hours
Penn alumni:
25% discount (code CDE0601A)
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Hyatt Regency Philadelphia
at Penn's Landing
201 South Columbus Blvd.
Philadelphia, PA 19106

Continuing Dental Education Program Preview: 2006–07 Academic Year

October 2006

The Surgical-Restorative Interplay:
Biology, Function, and Aesthetics
Presented by Neil Starr, DDS

November 2006

Implant Logistics
Presented by Roger Levin, DDS

Implications of Cardiovascular Disease
for Dental Care and Oral Health
*Presented by Thomas Sollecito, DMD,
and Frank Silvestry, MD*

*For more information on these
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