HIDDEN TREASURE

THOMAS W. EVANS COLLECTION OF SECOND EMPIRE ART & ARTIFACTS IS BROUGHT TO LIGHT
Advancing a Legacy of Leadership

PENN DENTAL MEDICINE continues to advance its legacy of leadership in education, research, and patient care on a variety of fronts through the great work of our students, faculty, staff, and alumni. First and foremost another accomplished group of students will soon bring their skills to the field of dental medicine with the graduation of the Class of 2015. Congratulations to all members of the class — you are joining a highly respected group of clinicians, educators, and researchers as Penn Dental Medicine alumni.

This year, we are also celebrating Penn Dental Medicine’s legacy of leadership through its rich history, most notably that of the School’s Evans Building and its earliest benefactor, Dr. Thomas W. Evans. This February marked the 100th Anniversary of the dedication of the Evans Building (see page 5), and as part of the centennial celebration, we are presenting a special exhibition of art and artifacts from the Thomas W. Evans Collection (see page 10), pieces collected over Evans’ lifetime as the dentist to European royalty.

Another historic piece – the carriage that Evans used to help the wife of Napoleon III flee Paris during the Franco-Prussian War — is also returning to Penn Dental Medicine this spring (see page 15). And coinciding with these historic celebrations will be the launch this fall of the Evans Building Centennial Renaissance, a renovation project that will transform the building throughout (see www.dental.upenn.edu/evans).

In the area of research, our faculty continues to advance the science and practice of dental medicine. In this issue, we highlight the work of one of our most recent faculty recruits, Dr. Songtao Shi, Professor and Chair of the Department of Anatomy & Cell Biology (see page 22), and his research within the field of stem cell biology.

Within global engagement, Penn Dental Medicine joined a delegation led by Provost Vincent Price to launch the Penn Wharton China Center in March (see page 3). And in June, we will be bringing together experts from around the world for two symposia — the Penn Esthetics Symposium, June 11-13 (see www.dental.upenn.edu/esthetics2015), and the Penn Periodontal Conference 2015, June 28-July 3 (see www.dental.upenn.edu/pennperio2015). The Esthetics Symposium will also celebrate the 60th Anniversary of our Department of Periodontics and include a special program honoring the work of the late Dr. Morton Amsterdam.

And in patient care and service, our alumni are leading the way within their local communities and across the globe. We share the stories in this issue of two alumni providing much-needed care in the Dominican Republic (see page 36) and another within Philadelphia’s Vietnamese community (see page 32).

Indeed, the School’s legacy of leadership in education, research, and patient care is a direct reflection of the entire Penn Dental Medicine community and your commitment to the field of dental medicine and to this great institution of which we are all stewards.

Denis F. Kinane, BDS, PhD
Morton Amsterdam Dean
INSIDE

10 Hidden Treasure
Thomas W. Evans Collection of Second Empire Art
Brought to Light

22 Orofacial Stem Cells
A Baby Tooth Guided Penn Dental Medicine’s Songtao Shi to Stem Cell Insights

36 Crossing Borders
Alumni Providing Dental Care — and Hope — in the Dominican Republic

2 On Campus
School News in Brief

9 Faculty Perspective
Views on Dental Topics & Trends

16 Faculty Q&A
Sharing Personal & Professional Paths

17 Research Spotlight
Translating Science to Practice

26 Academic Update
Department/Faculty News & Scholarship

31 Alumni Highlights
Profiles, Gatherings & Engagement

40 Class Notes
News from Fellow Alumni

43 In Memoriam
Remembering Members of the Penn Dental Medicine Community

44 2015 Calendar
Upcoming Events & Programs

ON THE COVER: An oil portrait of Penn Dental Medicine’s earliest benefactor, Thomas W. Evans, by George Peter Alexander Healy. It will be part of the upcoming exhibition, Courty Treasures: the Collection of Thomas W. Evans Surgeon Dentist to Napoleon III, to be presented at the Arthur Ross Gallery, July 18–Nov. 8, 2015 (see story, page 10).

PENN DENTAL MEDICINE JOURNAL: Vol. 11, No. 2
University of Pennsylvania School of Dental Medicine
www.dental.upenn.edu

Dean: Denis F. Kinane, BDS, PhD
Senior Associate Dean of Development and Alumni Relations: Elizabeth Ketterlinus
Associate Dean for Leadership Giving: Maren Gaughan
Director, Publications: Beth Adams
Contributing Writers: Beth Adams, Juliana Delany, Debbie Goldberg, Katherine Unger-Baillie
Design: Dyad Communications
Photography: Mark Garvin, Peter Olson
Printing: The Pearl Group at CRW Graphics

Penn Dental Medicine Journal is published twice a year by the Office of Communications for the alumni and friends of the University of Pennsylvania School of Dental Medicine. ©2015 by the Trustees of the University of Pennsylvania. All rights reserved. The views expressed in this publication are not necessarily those of Penn Dental Medicine. We would like to get your feedback — address all correspondence to: Beth Adams, Director of Publications, Robert Schattner Center, University of Pennsylvania School of Dental Medicine, 240 South 40th Street, Philadelphia, PA 19104-6030, adamsnb@dental.upenn.edu.
Postdoctoral Researcher Wins 2015 IADR Innovation in Oral Care Award

Lizeng Gao, one of Penn Dental Medicine’s postdoctoral researchers, has won a 2015 International Association for Dental Research Innovation in Oral Care Award. The prize is jointly sponsored by IADR and GlaxoSmithKline.

This prestigious and highly competitive award offers as much as $75,000 in research funding. Winners are chosen after rigorous scientific review, based on scientific merit and novelty, from a worldwide pool “to advance oral care programs directed toward the development of innovative and novel compounds, biomaterials, or devices that can be used ultimately at the public health level,” according to the IADR.

Gao is a member of the lab of Dr. Hyun (Michel) Koo, Professor in Penn Dental Medicine’s Department of Orthodontics and divisions of Pediatric Dentistry and Community Oral Health, who also won the Innovation in Oral Care award in 2006 and was part of a team that won in 2013.

The award recognizes Gao and his team’s research into a novel nanoparticle-based technology that offers a sophisticated approach to eliminating pathogenic biofilms and preventing dental caries. The specially designed nanoparticles simultaneously degrade the biofilm matrix and kill the bacterial pathogens embedded within, while preventing tooth-enamel dissolution under acidic conditions. Furthermore, these nanoparticles are inexpensive to produce and non-toxic. The technology is patent-pending.

This IADR award has a special focus on promoting interdisciplinary projects. The award proposal was submitted in collaboration with Dr. Koo as well as Dr. David Cormode, an Assistant Professor of Radiology and Bioengineering with appointments in Penn’s Perelman School of Medicine and School of Engineering and Applied Science.

Gao was honored at an award reception and dinner at the IADR/AADR/CADR General Session and Exhibition in Boston on March 11, 2015.
Penn Dental Medicine Helps Launch Penn Wharton China Center

Penn Dental Medicine was part of the Penn delegation celebrating the launch of the Penn Wharton China Center (PWCC) in Beijing, China, March 9–10, also presenting a symposium at the PWCC on March 8 in conjunction with the Center’s opening.

“The Penn Wharton China Center will be a valuable resource for building on the established ties Penn Dental already has in China,” says Penn Dental Medicine’s Morton Amsterdam Dean, Dr. Denis Kinane. “We were pleased to be able to debut this venue, as a vibrant gathering place, with our symposium.”

Faculty and senior administrators from five leading dental schools within China attended the Penn Dental Medicine symposium at the PWCC, which focused on teaching philosophy and advances in restorative dentistry, periodontics, and endodontics, along with an overview of Penn Dental Medicine’s scientific research, highlighting work being conducted on mesenchymal stem cells.

In addition to Dean Kinane, the symposium speakers included Dr. William Cheung (D’81, GD’82) Chair, Penn Dental Medicine Board of Overseers; Dr. Syngcuk Kim, Associate Dean for Global Affairs & Continuing Education; and Dr. Songtao Shi, Chair and Professor, Department of Anatomy & Cell Biology. Adding to this strong Penn Dental Medicine delegation was Robert Zou (WG’94), member, Penn Dental Medicine Board of Overseers, and Founder and CEO of Arrail Dental Group, Beijing.

Dean Kinane was among eight deans from Penn who were part of the group led by Penn Provost Vincent Price to celebrate the PWCC opening. The full Penn delegation consisted of more than 40 faculty and senior administrators, including Vice Provost for Global Initiatives Ezekiel Emanuel. The two-day program, March 9–10, included a roundtable with Chinese university leaders to discuss issues in higher education, panel discussions with senior Chinese business leaders and Penn scholars, and research talks with Penn faculty and deans. Dean Kinane was part of the deans’ panel on how globalization is shaping breakthroughs in research and interdisciplinary education, and Dr. Shi participated in the research talks, presenting on translational research at Penn Dental Medicine.

As part of this visit to Beijing, Dean Kinane also signed a renewed Memorandum of Understanding (MOU) to facilitate collaborative research and exchange with the Peking University School of Stomatology, where plans were announced for the National Center for International Research, a collaborative research program between Penn Dental Medicine and the School of Stomatology supported by the Ministry of Science & Technology of China. Dean Kinane also signed a new MOU with Wuhan University School and Hospital of Stomatology, bringing the total number of Penn Dental Medicine MOUs with schools in China to seven.

These events kicked off a six-month grand opening of the PWCC, which will culminate with a Gala Celebration and Forum in September 2015 with Penn President Amy Gutmann. Penn Dental Medicine will also be part of that celebration, hosting an alumni and friends continuing education trip to China in conjunction with the event (see back cover). For more information on the China trip, contact Maren Gaughan, Associate Dean for Leadership Giving, 215-898-8952, gaughan@dental.upenn.edu.

“The Penn Wharton China Center will be a valuable resource for building on the established ties Penn Dental already has in China.”

DEAN DENIS KINANE

TOP: Dean Kinane (right) with Provost Vincent Price (center) and deans from five other Penn schools at the Penn Wharton China Center opening in Beijing.
ABOVE: Memorandum of Understanding signing ceremony with Peking University School of Stomatology.
June CDE Symposia
Spotlight Esthetics, Periodontics

This June, Penn Dental Medicine will present two multi-day, continuing dental education symposia – the Penn Esthetics Symposium, June 11–13, and Penn Periodontal Conference 2015, June 28–July 3, bringing together leading experts in the science and practice of esthetic dentistry and periodontics. Both symposia will be held at Penn’s Annenberg Center for the Performing Arts.

PENN ESTHETICS SYMPOSIUM
June 11–13, 2015
The Penn Esthetics Symposium, which will celebrate the 60th Anniversary of Penn Dental Medicine’s Department of Periodontics, will cover a full range of topics within osteology, esthetics, implants, periodontics, and prosthodontics. The program will address the latest techniques and technologies in surgical interventions and restorative management of natural teeth and implants.

In addition, June 13 will be the Morton Amsterdam Program and Celebration of Life, with a series of lectures honoring the work and life of the late Dr. Morton Amsterdam (C’43, D’45), the alumnus and former faculty member recognized by many as “the father of periodontal prosthesis.” The day will pay tribute to this exceptional innovator, educator, and clinician who helped to establish a legacy of leadership for Penn periodontics and periodontal prosthesis.

Also part of the symposium events will be an alumni and friends reception June 12, 5 pm, at Penn Dental Medicine.

For a complete program of speakers, events, and registration, visit: www.dental.upenn.edu/esthetics2015.

PENN PERIODONTAL CONFERENCE 2015
June 28–July 3, 2015
The Penn Periodontal Conference 2015 will bring together leading investigators on current research within the breadth of clinical, translational, and basic sciences in periodontology. The program will feature presentations on the topics of host-microbial interactions, inflammation and inflammation resolution, immunity and epigenetics, and clinical advances and novel treatments in periodontal disease. Research posters within these areas will also be presented.

The program is structured to provide ample time for informal discussions on research projects and encourage interactions among participants in a variety of formats.

Penn Dental Medicine held its inaugural Penn Periodontal Conference in 2013 and anticipates presenting this research-focused symposium every two years.

For a complete program of speakers and registration, visit: www.dental.upenn.edu/pennperio2015.

WORLD OF ORAL MEDICINE
October 17, 2015
Understanding how oral medicine conditions, chronic diseases, and medication use may potentially impact the provision of dental care is important for dental professionals at all levels. Presented in conjunction with the American Academy of Oral Medicine meeting, this program will feature leading experts in the areas of oral mucosal diseases, orofacial pain disorders, oral and maxillofacial radiology, medically complex patients, and oral cancer.

For a complete program of speakers and registration, visit www.dental.upenn.edu/oralmed2015.

TMJ: A to Z
November 14, 2015
This symposium is designed to guide the practitioner from the initial presentation of temporomandibular joint internal derangement and myofascial disease through primary treatment strategies and second-line treatment options. Speakers will utilize evidence-based diagnosis, treatment, and decision-making algorithms to review these commonly encountered conditions of the temporomandibular joint.

For a complete program of speakers and registration, visit www.dental.upenn.edu/TMJ2015.

Visit www.dental.upenn.edu/cde for a complete listing of upcoming continuing dental education programs. Penn Dental Medicine alumni receive discounted registration fees on most programs.
Celebrating Evans Building’s 100th Anniversary, Planned Renovations

Penn Dental Medicine launched a year of celebration to mark the 100th Anniversary of its historic Thomas W. Evans Building with a school-wide event, held February 24. Students, faculty, and staff shared an Evans Building 100th birthday cake at lunch, joined in photo ops with a life-size replica of Thomas Evans, and continued the celebration later in the day with a special gathering that featured a presentation and Q&A on the Evans Building Centennial Renaissance project, the major renovation project planned for the Evans Building. This event was the launch of a yearlong celebration commemorating the 100th Anniversary of the Evans Building and the beginning of the Evans Building Centennial Renaissance project.

The Evans Building Centennial Renaissance project will be the largest transformation in the building’s 100-year history, changing and updating the use and flow of most areas on all four levels while fundamentally respecting the building’s historic character. The project’s key components include a new preclinical lab and continuing education training center, a large modern clinic, a reimagined library, and a variety of new study spaces. Work on this renovation project is set to begin in the fall of 2015.

Dedicated February 22 and 23, 1915, the Evans Building at 40th and Spruce streets was built on the site of the family home of Dr. Thomas Evans, a Philadelphia native who became the dentist to the courts of Europe during France’s Second Empire and whose estate made possible the construction of this iconic building. The Evans Building today remains the hub of the School’s clinical care and instruction.

“The Evans Building is a fantastic, historic structure,” says Penn Dental Medicine’s Morton Amsterdam Dean, Dr. Denis Kinane. “As it celebrates its 100th anniversary in 2015, we are taking the next steps needed to get it ready for the next 100 years.”

Review the plans for the Evans Building Centennial Renaissance project, stay up-to-date on project progress, and learn how to support the project at www.dental.upenn.edu/Evans.

EVANS CENTENNIAL CELEBRATIONS

Penn Dental Medicine will have a yearlong celebration commemorating the 100th Anniversary of the Evans Building and the beginning of the Evans Building Centennial Renaissance project. Among the planned events:

#THOMASEVANSTUESDAY

Every Tuesday through February 2016, a life-size replica of Dr. Thomas Evans will be engaging Penn Dental Medicine students, faculty, staff and visitors, reflecting on the School’s history and current programs and generating excitement about the upcoming Evans Building transformation. Follow his appearances via the School’s social media on Facebook (Penn Dental Medicine), Twitter (@PennDentalMed), and Instagram (PennDentalMed).

EVANS COLLECTION EXHIBITION

An exhibition of paintings and decorative arts from the collection of the estate of Dr. Thomas Evans at Penn’s Arthur Ross Gallery, Fisher Fine Arts Library, 220 S. 34th St., July 18 – November 8, 2015 (see story, page 10).

CEREMONIAL “GROUND BREAKING”

A celebration and ceremonial “ground/wall breaking” to mark the beginning of work on the Evans Building Centennial Renaissance project, November 4, 2015.
Studying Oral Health Literacy to Strengthen Clinical Care

Second-year student Amanda Cole (D’17) knew she wanted to do clinical research during her time at Penn Dental Medicine, yet she didn’t foresee how it would play such a key role in her academic path, leading to a study that would become a community oral health honors project and guide her decision to pursue a Master of Public Health along with her DMD.

“All the pieces just came together,” says Cole, who quickly took up the task of finding a clinical research project her freshman year. That pursuit led her to Dr. Betty Harokopakis-Hajishengallis, Chief of Penn Dental Medicine’s Division of Pediatric Dentistry; Dr. Dafna Benadof, a visiting scholar from University Mayor in Chile, and a unique project focused on oral health literacy.

“Health literacy is a topic of growing interest across medical disciplines,” says Dr. Harokopakis-Hajishengallis. “When Amanda approached me about a clinical study feasible for a first-year student and Dr. Benadof, who had done a health literacy study as part of her PhD program, happened to be here, we all talked and decided to try a similar study in our pediatric clinic — something that would not only be valuable for our clinical practice, but also for us as educators.”

In close collaboration with Drs. Harokopakis-Hajishengallis and Benadof, Cole has taken the lead in the field work of the project from the onset. The first phase — a pilot/protocol study — launched last spring, and the larger scale study, refined from the outcomes of the pilot, got underway in at the beginning of 2015. Dr. Harokopakis-Hajishengallis was awarded a grant from the American Dental Association Foundation in support of the project.

“Very few studies have been done looking at the concept of health literacy in dentistry,” says Dr. Benadof, who continues to be involved in the project despite her return to Chile in June 2014, where she is a Professor and Researcher at the University Mayor School of Public Health. “There are some tools that have been developed to measure health literacy in dentistry, but nothing that has translated the use of those tools to the actual dental clinic and how it relates to the information that’s being understood by the patient. That is our goal with this project.”

The project is looking at two aspects — the oral health literacy level of the children’s parents, defined as their ability to obtain, process, and understand oral health-related information; and the oral health literacy demand created by the pediatric residents, meaning the level of communications and language they use to explain the children’s oral health condition and needs to the parents.

The study is targeting parents coming for their child’s first appointment in the clinic and includes a quick test to measure the parents’ oral health literacy before their child’s appointment and a survey after the appointment to gauge the parents’ understanding of the information shared by the resident providing their child’s care. Cole and other DMD students she helped to recruit and train as research assistants (RA) for the project conduct the surveys and literacy tests with the parents, using the Rapid Estimate of Adult Literacy in Dentistry (REALD), a previously established, standard tool adapted from a medical health literacy test. The appointment is then recorded and transcribed and the communications between the parents and the residents analyzed to determine the grade level of that conversation, measuring the demand the residents place on the parents when explaining their child’s oral health care.

Cole explains that the pilot study, which included 22 parents, showed the parents exhibited a low level of oral health literacy, and that on average over 60% of the residents’ dialogue during a dental appointment contained a low level complexity of words.

“We were very pleased to see our residents were using an easy-to-understand reading level, and thus placing a low demand on the parents,” says Cole, “for a number of studies in the medical field have shown that practitioners are often unable to assess their patients’ ability to understand certain things and tend to overreach in their explanation, resulting in a high level of demand.”

“One of our goals with this study is to see if we need to spend time teaching our residents what to ask and how to ask questions in their patient interactions.”

DR. HAROKOPAKIS-HAJISHENGALLIS
Blended Learning Update: An Anatomy, Occlusion Game

Penn Dental Medicine students can now build their knowledge of dental anatomy and occlusion in a fun, collaborative, and social interactive online platform with the first gamification of course content within the School’s curriculum. Enter PaGamO — a multiplayer gaming platform that combines social gaming with knowledge acquisition. An adaptation of PaGamO was launched as a pilot in February 2015 for use as part of Dr. Margrit Maggio’s General Restorative Dentistry (GRD) course.

First introduced by Dr. Ping-Cheng Yeh of National Taiwan University in his 2013 Coursera course, PaGamO (which literally translates to “learning from games”) enables students to build their knowledge in any discipline while playing with others. PaGamO presents players with a game board of territory available for occupation. The object of the game is to occupy every territory on the board and eliminate players. Students capture territory from their peers and fortify their winnings by correctly answering questions with increasing degrees of difficulty. Answer incorrectly and the player loses vital resources needed for survival.

“We hope to improve residents’ ability to gauge the parents’ or patients’ understanding and tailor their communications accordingly.”

AMANDA COLE (D17)

In this larger study now underway, Cole and the 17 other RAs she is coordinating will target 100 parents. Cole explains that a number of new protocols and elements have been added as an outcome of the pilot study, including the addition of a survey of the residents to measure if they are able to effectively gauge the literacy level of the parents. And dependent on funding, they are also exploring videotaping the appointments to evaluate the nonverbal cues that are part of the parent/resident communications.

“We are also including one of the pediatric residents in this next phase of the study,” says Cole. “She will be conducting surveys with pediatric dentistry residency program directors and pediatric dental residents across the country to ask about the level of their own training in health literacy and patient communications and whether they would find it valuable to have more.”

“One of our goals with this study is to see if we need to spend time teaching our residents what to ask and how to ask questions in their patient interactions,” adds Dr. Harokopakis-Hajishengallis.

Cole is excited by the potential impact of the study across disciplines. “Hopefully a lot of good things will come out of it,” says Cole. “We hope to improve residents’ ability to gauge the parents’ or patients’ understanding and tailor their communications accordingly. This is an unspoken aspect of care proving to be very important.”

In between this project and her dental school studies, Cole is also the Community Service Chair of her class (a role she also had her freshman year), the President of the Day of Service Club (which she formed this year), and pursuing her Master in Public Health, which she began this past summer (this larger scale study will be her master’s capstone project). “The public health courses are giving me a better perspective on every aspect of my involvement at the School,” notes Cole. “The public health courses are giving me a better perspective on every aspect of my involvement at the School,” notes Cole. Though not sure yet where it may lead, she says, “I like how the specialty of pediatrics has a large public health component, so that really interests me as a future direction.”
Students Publish Children’s Book, Inspire Healthy Habits

With colorful illustrations and a simple yet profound message, “Brushtime, Bedtime,” a board book written, illustrated, and published by a group of Penn Dental Medicine students, is teaching young children and inspiring their parents to build healthy oral care and bedtime routines.

“I jumped at the chance to write this text, because it seemed like the perfect vehicle to not only promote healthy brushing habits and create positive dental associations, but to also encourage kids and parents to read aloud together more,” says Ashley Abraham (D’16), who wrote the book with fellow DMD students Kelby Okada (D’16), and Giselle Galanto (D’15), with Liz Freund (D’16) doing the illustrations. “I started to understand the role of reading aloud in early childhood development when one of my nephew’s first words was “honey” after the number of times “The Big Honey Hunt” was read aloud to him. Engaging images, rhymes, and simple language, can impact a developing mind, especially when read aloud by parents and caregivers.”

The book project is building upon the Books, Brushing and Bedtime (BBB) program within the School’s Pediatric Clinic, an oral health education and literacy program developed last year by former pediatric resident Dr. Stephanie Rashewsky (GD’14) and currently run by second-year resident Dr. Jessica Lee (GD’15). Through BBB, an age-appropriate, dental-relevant book is given to children between the ages of 1 to 5 years at their six-month recall visits to reinforce healthy bedtime routines – tooth brushing and reading. Geared to toddlers, “Brushtime, Bedtime” will join the selection of books given out to the younger children within that one-to-five-year age range.

The first print run of 1,000 books was delivered in April — the culmination of a yearlong production process for Abraham and the others involved in creating the book. In addition to the writing, illustration, and design, they applied for and received copyright through the Penn Center for Innovation, applied for an ISBN in the event the book was sold at some point commercially or placed in a library, and researched an online printing vendor to produce the book. Funding for the book came through a grant from the Dental Trade Alliance Foundation, awarded to Dr. Rochelle Lindemeyer, Director of the Pediatric Residency Program, who also served as faculty advisor for the project.

Abraham, Okada, Galanto, and Freund will be making a poster presentation of the project in the My Kids Dentist Research Poster Competition at the American Academy of Pediatric Dentistry’s Annual Session 2015 in Seattle, Wash., May 21-24, 2015.

Presently, the book is not available for purchase, but it may be in the future. “We’ve had interest from alumni and practicing pediatric dentists who teach in the clinic and have seen the book,” says Abraham, “so we may explore making it available for purchase at some point.”

“Engaging images, rhymes, and simple language, can impact a developing mind, especially when read aloud by parents and caregivers.”

ASHLEY ABRAHAM (D’16)
Penn Periodontics: A Legacy of Discovery

THE UPCOMING PENN Esthetics Symposium will celebrate the 60th anniversary of the establishment of the Department of Periodontics by Dr. D. Walter Cohen. This auspicious occasion will be all the more special as the final day of the conference, June 13, will be dedicated to honoring the life of Dr. Morton Amsterdam, the founder of our program in Periodontal Prosthesis. Together, these two pioneers laid the foundation for many of the tenets in periodontics and advanced restorative dentistry. In anticipation of these events, it is important and inspiring to consider how numerous other “Penn people” have contributed to the knowledge that serves as the basis for the practice of periodontics and how the specialty has changed.

It really all began with W.D. Miller, a member of Penn Dental Medicine’s first graduating class in 1879, who proposed that periodontal disease was caused by microorganisms. Years later, work done by Max Listgarten and his various collaborators provided critical information on the ultrastructure of the periodontium and mechanisms of periodontal pathogenesis. The partnership between research and clinical excellence has been a hallmark of Penn Periodontics. The recognition of the interplay between oral and systemic disease along with interdisciplinary therapy concepts remain as applicable today as they were 50 years ago. In the clinical arena, there are few if any individuals who have contributed more to the periodontal and implant literature than former Dean Jan Lindhe. His studies in beagle dogs and those by Alan Polson in squirrel monkeys are still discussed today in the context of occlusal trauma. This “list” is certainly not complete, but does give one an idea about what our colleagues have done and continue to do to improve the specialty.

Currently, Penn Periodontics continues to be focused on scholarly excellence. Most recently, Dean Denis Kinane and Dana Graves have added greatly to our understanding of the microbial pathogenesis of periodontitis and factors that affect susceptibility to the disease. Advancements in nonsurgical periodontal care by Yota Stathopoulou have simplified treatment and increased efficiency. Dean Emeritus Marjorie Jeffcoat has enhanced our appreciation of the systemic effects of oral inflammation. Her findings that periodontal care of diabetic, coronary artery disease, cerebral vascular disease patients results in reduction in health care costs has changed insurance coverage by major insurers.

In clinical practice, the use of endosseous dental implants likely represents the most significant change in periodontal practice over the last four decades. Early on, one of the major obstacles to placing implants was the lack of bone in edentulous sites. Today, periodontists are able to overcome this problem by “regrowing” bone and the periodontium via novel surgical procedures using a variety of materials, including biomimetic substances, platelet derived growth factor, and bone morphogenetic protein-2. The findings of current Chair Joseph Fiorellini and his colleagues serve as the groundwork for the use of growth and differentiation factors in regenerative procedures. Today’s periodontist is practicing regenerative medicine on a daily basis. Protocols have been developed that can be used to eradicate a pocket by regeneration of both the hard and soft tissues that support teeth within the jaws. Furthermore, we have become very adept in our ability to address soft tissue defects around natural teeth and implant-supported restorations as a result of advances in periodontal plastic surgical techniques.

The compelling question of when to save a tooth versus replacing it with an implant-supported restoration has certainly complicated the treatment planning process relative to years ago. There are simply more options available to us today that must be considered in the context of each of our patient’s desires and needs. In spite of excellent implant success rates, problems can occur. One is a form of peri-implant bone loss generically referred to as “peri-implantitis.” Current research by Drs. Korostoff, Wada, Sarmiento, and Fiorellini of Penn Periodontics involves better disease identification, classification, and nonsurgical and surgical therapy. As the prevalence of peri-implant bone loss increases, foundational knowledge going forward will guide our peers as to the most efficacious approaches.

There is no doubt that in recent years very dramatic changes have occurred in the skill set required of a competent periodontist. Of course, maintaining the oral and systemic health of our patients is truly the end game. In striving to achieve this, Penn Periodontics continues to have a leadership position in the field, relying on the contributions from illustrious generations of Penn clinicians and researchers. And for this, we are all grateful.

Contributed By:
DR. JOSEPH FIORELLINI
Chair, Department of Periodontics

DR. JONATHAN KOROSTOFF
Associate Professor of Periodontics, (above, left)

DR. KEISUKE WADA
Assistant Professor of Periodontics, (above, right)
THIS SUMMER AND FALL, visitors to the Penn campus will have the chance to experience a rare collection of nearly 150 works of art and artifacts — oil paintings and sculptures, ornate silver and ceramics, jewel-encrusted cases and medals — all a fascinating reflection of the storied life and times of Penn Dental Medicine’s earliest benefactor, Dr. Thomas W. Evans. A Philadelphia native and prominent international dentist to 19th century royalty, Evans’ fortune made possible the construction of the School’s Thomas Evans Building.

In Conjunction with the School’s Evans Building Centennial, the Thomas W. Evans Collection of Second Empire Art Is Brought to Light

This exhibit, Courtly Treasures: The Collection of Thomas W. Evans Surgeon Dentist to Napoleon III, is set to run July 18 through November 8 in the University’s Arthur Ross Gallery, being presented this year in conjunction with the Evans Building’s 100th anniversary. It also coincides with the launch of the Evans Building Centennial Renaissance project, the most extensive renovation in the building’s history, set to begin this fall (see www.dental.upenn.edu/evans). Bringing this exhibit to fruition, however, meant rediscovering many of these hidden treasures.

Shortly after Dean Denis Kinane arrived at Penn Dental Medicine in 2009, he learned of the existence of a collection of art and artifacts from the Second Empire — a period of ornately styled 19th century French architecture, painting, furniture, and decorative arts — belonging to the School of Dental Medicine and originally owned by Evans. While many of the pieces of Evans’ impressive lifetime collection had been sold in years past, some were on display in various locations throughout the School and the University, and others had been locked away for decades in local warehouses — all but forgotten in recent years.

What pieces comprised the warehoused collection? What condition were the items in? How did they relate to the School, and could they be restored to their original glory to become a lasting part of Evans’ legacy? Dean Kinane was determined to find and honor those forgotten treasures. In 2010, he made a call to Lynn Marsden-Atlass, Director of the Arthur Ross Gallery and the University Curator. Together, they made plans to unearth the pieces from storage and, ultimately, to organize the upcoming exhibition.
Many of the pieces were broken, torn, or dirty. Almost every piece needed some kind of conservation,” she says. “We needed someone who was willing to invest in the future of the collection.” That someone turned out to be Dean Kinane, who procured and committed funding to bring the collection back to life.

“WHAT WAS LOST WAS SUDDENLY FOUND”

Nearly 100 years later, intrigued by the existence of this mysterious group of artworks from the Evans Collection, Marsden-Atlass spent much of the summer of 2010 at warehouses in Philadelphia and New Jersey, where the pieces were unpacked, taking inventory, documenting and digitizing them, and assessing their condition.

“It was unusual and exciting” for a long-forgotten collection to be discovered anew, Marsden-Atlass remembers. “What was lost was suddenly found. We didn’t know what to expect...we were all surprised by the collection’s diversity and scope.” As she began to uncrate more and more valuable paintings and items of decorative art, many damaged, she grew increasingly inspired about their potential for a major campus exhibition. She also realized that restoring the collection would take time, and money.

“This collection is critical to the history of the School and distinguishes our School from all others. The story of Evans is truly unique and memorable, for the field of dentistry as a whole and specifically for the School of Dental Medicine.”

DEAN DENIS KINANE

“Many of the pieces were broken, torn, or dirty. Almost every piece needed some kind of conservation,” she says. “We needed someone who was willing to invest in the future of the collection.” That someone turned out to be Dean Kinane, who procured and committed funding to bring the collection back to life.
A REFLECTION OF CHARACTER

“Dean Kinane truly appreciated the collection’s significance. He was curious and excited about it,” Marsden-Atlass says. “We have him to thank for making a commitment to its preservation, and for putting his support and resources behind it.”

To the Dean, restoring the collection to its former glory is both a privilege and an obligation as the School’s leader. “The respect with which we treat the past and our benefactors reflects on our character,” he says. “This collection is critical to the history of the School and distinguishes our School from all others. The story of Evans is truly unique and memorable, for the field of dentistry as a whole and specifically for the School of Dental Medicine.”

A TIME CAPSULE OF THE SECOND EMPIRE

With the commitment of funding in place, Marsden-Atlass and her staff created a prioritized list for conservation, starting with the collection’s large paintings and sculptures and working down to smaller decorative art pieces. By 2012, a portion of the conserved collection was installed in Penn Dental Medicine, including a number of the paintings and decorative arts in the Dean’s Office Suite and decorative arts in display cases located in the School’s Robert Schattner Center atrium area and the hallway leading to the Dean’s Office.

“There are many wonderful and accomplished paintings in the collection that are typical of the bourgeois tastes of the moment, which were characterized by less interest in religious and ancient art and more focused on history through the lens of everyday life,” says André Dombrowski, Assistant Professor in the Department of the History of Art at the University of Pennsylvania.

A scholar of French avant garde painting, including the Second Empire, Dombrowski is fascinated by how the Evans paintings, particularly those by French artist Henri Dupray, reflect the historical currents in Paris at the time.

“Industrialization had taken hold in Paris, and that is evident in many of the works,” he says. “They are very important in a larger social and political sense.”

PIECES OF PARTICULAR SIGNIFICANCE

While all of the pieces in the Evans collection are valuable, a few are particularly noteworthy for their artistic and historical significance, says Marsden-Atlass.

Among them, “Departure of Empress Eugenie,” by Henri-Louis Dupray, dating from 1884. The 60-inch by 76-inch oil on canvas depicts the dramatic flight of the Empress from Paris at the end of the Franco-Prussian war, when the Emperor was imprisoned. Eugenie is depicted escaping with Evans in his brown, four-seated carriage, which was also recently returned to campus (see sidebar, page 15).

Another significant oil painting is Evans’ portrait by George Peter Alexander Healy (the cover photo for this issue of the Penn Dental Medicine Journal). Healy was a popular and prolific American portrait painter of the time. The medium-sized work portrays Evans during his Paris years, probably five to ten years after he arrived abroad.

A marble bust of The Greek Slave by sculptor Hiram Powers (see 6, below left), currently on display in the Penn Dental Medicine library, is significant because Powers is the only American sculptor represented in the collection, and because the original sculpture on which it is based was first exhibited in America at the Pennsylvania Academy of the Fine Arts in Philadelphia.

Two decorative pieces are particularly fine examples of their genres: a German silver tankard by Eduard Wollenweber (see 7, above), circa 1892, which shows superior workmanship in the complicated repousse technique, and a rare ceramic vase by English manufacturer Minton’s, Ltd. Standing four-feet tall and finished in turquoise majolica glaze, it features a modeled figure of Prometheus being attacked by an eagle.

Another item of note is a 19th century Boulle desk, intricately inlaid with brass and tortoiseshell (see 4, page 12). This inspirational piece of the collection is appreciated every day as it is currently on display in the Office of the Dean.
Dean Kinane’s favorite painting in the collection is “Napoleon” by Henri-Louis Dupray (see detail 1, page 10), also on display in his office. “The conservation completely transformed this painting and removed decades of soiling and discoloration,” says Heather Gibson Moqtaderi, Art Collections Manager in the Office of the Curator. “I can see why this is the Dean’s favorite. In addition to the historical importance of the subject, there is a masterful application of color.”

CELEBRATING OUR CENTENNIAL TO THE FULLEST
These, along with an array of other paintings, sculptures, decorative objects, and furniture, will be among nearly 150 selected works in the exhibition, which will bring together some items on loan to other institutions, those on display at Penn Dental Medicine and other parts of the University, as well as some previously sold works lent from their current owners.

The exhibition will showcase “the richness and diversity of the collection,” says Marsden-Atlass, and will be unique among gallery shows for the sheer number of different types of art and objects represented. “This will be the first time since the Evans Museum closed at the Dental School that so many Evans works will be available for scholars on the Second Empire and the public to enjoy.”

A catalogue will be produced in conjunction with the exhibition, with essays from art scholars of the Second Empire period, including an essay on the Second Empire by Dombrowski, one by Moqtaderi on the Minton Prometheus Vase, and by Marsden-Atlass on the history of the Thomas W. Evans Museum and art.

“The exhibit will help us celebrate the Evans Building Centennial to the fullest,” says Dean Kinane. “In addition, it will allow us to continue to appreciate Evans for his unique role in promoting the high standing and respect of dentists in the communities of the world.”

—By Juliana Delany

RELATED EVENTS
PANEL DISCUSSION ON THE EXHIBITION
Penn Homecoming Weekend
Saturday, November 7, 11:15 am–12:15 pm
Arthur Ross Gallery
Speakers: André Dombrowski, Assistant Professor, Dept. of the History of Art; Heather Gibson-Moqtaderi, Art Collections Manager, Office of the Curator; and Lynn Marsden-Atlass, Director of the Arthur Ross Gallery and University Curator.

“12 @ 12”
First Wednesday of September, October and November 12 min. talk at noon on the exhibit by gallery docents
Arthur Ross Gallery

“This will be the first time since the Evans Museum closed at the Dental School that so many Evans works will be available for scholars on the Second Empire and the public to enjoy.”
LYNN MARSDEN-ATLASS
Evans’ storied carriage returns to campus

Thomas W. Evans made a name for himself as a skillful, innovative, and caring dentist to wealthy and powerful 19th century Parisians and European royalty. But he didn’t stop there: He also made history when he helped one of his patients, the Empress Eugenie, flee Paris during the Franco-Prussian War after the capture and imprisonment of her husband, Emperor Napoleon III, in 1870. The dramatic event was immortalized in the painting “Departure of Empress Eugenie” by Henri-Louis Dupray, a highlight of the Thomas W. Evans Collection, selected pieces of which will be exhibited at Penn’s Arthur Ross Gallery from July 18 to November 8.

The great escape would not have been possible without Evans’ luxurious, four-seat Landau carriage, which is returning to its rightful home at Penn Dental Medicine in time for Alumni Weekend 2015, May 15–17. Originally part of the Evans Museum within the School’s Thomas Evans Building, since the 1990s, the carriage had been on extended loan to the Réuion des Musées Nationaux. In 2013, when Marsden-Atlass located it at the Château de Compiègne, Dean Kinane was determined that the carriage should come home to Philadelphia. In 2014, after negotiations with the French, who valued the carriage as an important national symbol, an agreement was reached for the carriage’s return.

A restoration is now underway to return the carriage to its former glory. The comprehensive restoration includes body work to remove rust and match original paint, as well as repairs to all parts of the carriage, from the lamps and wheels to the folding roof, dashboard and fenders. Initials and decorative striping on the doors will be enhanced, and the entire carriage will be finished in a satin clear-coat to protect it for years to come. The first phase of work on the exterior elements will be completed for its return for Alumni Weekend 2015 through June; the rest of the work will be completed over the summer for the carriage’s return to the School in early November.

“The carriage is steeped in history and was a Rolls Royce of carriages in its time,” says Dean Kinane. The vehicle that holds a unique place in history is now home to stay at the School forever tied to Evans’ lasting legacy.

ABOVE: Dr. Thomas Evans Landau carriage used to help Empress Eugenie flee Paris in 1870 as displayed within the original Thomas W. Evans Museum, circa 1915, that occupied the east half of the Spruce Street wing of the Evans Building.
WHILE THE PENN DENTAL Medicine community may know the School’s faculty by what they teach or the research they conduct, this Q&A faculty spotlight aims to get a bit more personal glimpse of them as individuals. In this issue, we talked with Dr. Peter Quinn (D’74, GD’78), Schoenleber Professor of Oral & Maxillofacial Surgery, Vice Dean for Professional Services, University of Pennsylvania Perelman School of Medicine, and Senior Vice-President for Clinical Practices, University of Pennsylvania Health System.

What drew your interest to oral surgery?
As a third-year dental student at Penn, in 1973, I did an externship in Oral and Maxillofacial Surgery at Pennsylvania Hospital. I observed Dr. Edward Henefer, a full-time Penn faculty member, perform an orthognathic procedure on a young man with a significant congenital facial deformity. From that day forward, it was clear to me that I wanted to pursue a career in oral and maxillofacial surgery.

Fostering close ties between dentistry and medicine has been an integral part of your time here at Penn, how has that impacted your professional perspective?
One of the unique aspects of Penn Dental is its broader view of dentistry as an integral field in health care in general. In 1984, Dr. Barry Hendler, Chairman of Oral and Maxillofacial Surgery at the time, began the first Oral and Maxillofacial Surgery Residency/MD program at the Medical College of Pennsylvania, where I received my own medical training. In 1989, we transitioned the program so that the medical degree was now granted by Penn’s Perelman School of Medicine. This “dual degree” training offered me the “best of both worlds” in both medicine and dentistry, and I had the privilege of being the first faculty member to Chair both the Faculty Senate in the dental school and the Medical Board at HUP.

What do you view as your greatest professional accomplishment?
I had the privilege of serving as Chairman of Oral and Maxillofacial Surgery at both Penn Dental and the Hospital of the University of Pennsylvania (HUP) for 22 years (1986–2008). My particular area of expertise was reconstructive surgery of the temporomandibular joint, and Penn gave me the opportunity to develop the first FDA-approved stock total joint prosthesis for the temporomandibular joint. The clinical trial was the longest in FDA history (from 1995 to 2005), and now, it is the most widely used stock prosthesis both in the U.S. and internationally. It also afforded me the opportunity to operate and lecture on this technique in over 20 countries in Europe, Asia, and South America.

What excites you most about Penn Dental today?
Penn Dental has remained in the forefront of promoting integrated dental education within a great University. I have had the privilege of having interaction with the Veterinary School, the Engineering School, the Wharton School, the Medical School and the Nursing School, just to name a few, in my 31 years as a faculty member. Lastly, I think the best compliment I can give to the School is that both of my children, Abigail Peterson, Class of 2002; and Noah Quinn, Class of 2004; are graduates of Penn Dental. Hopefully, some or all of my seven grandchildren, will follow in their footsteps.

If you could have dinner with anyone, who would it be?
My “Penn Ultimate” historical dinner companions would be Benjamin Franklin, Dr. John Morgan (Penn Medicine founder) and Dr. Thomas Evans (Penn Dental’s greatest benefactor).
Scholarly Activity, Impact

Following is a snapshot of the scholarly activity of the Penn Dental Medicine standing faculty with the number of publications and the impact of research output (h index*) over the past five years (January 1, 2010 – December 31, 2014).** Listed are those investigators with an h index of 5 or higher, for articles published within the last five years, in journals covered by the Scopus database.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Songtao Shi</td>
<td>Anatomy &amp; Cell Biology</td>
<td>90</td>
<td>22</td>
</tr>
<tr>
<td>Dr. George Hajishengallis</td>
<td>Microbiology</td>
<td>58</td>
<td>17</td>
</tr>
<tr>
<td>Dr. Henry Daniell</td>
<td>Biochemistry</td>
<td>37</td>
<td>14</td>
</tr>
<tr>
<td>Dr. Anh Le</td>
<td>Oral Surgery &amp; Pharmacology</td>
<td>33</td>
<td>13</td>
</tr>
<tr>
<td>Dr. Elisabeth Barton</td>
<td>Anatomy &amp; Cell Biology</td>
<td>39</td>
<td>12</td>
</tr>
<tr>
<td>Dr. Dana Graves</td>
<td>Periodontics</td>
<td>36</td>
<td>12</td>
</tr>
<tr>
<td>Dr. Hyun (Michel) Koo</td>
<td>Orthodontics/Div. of Community Oral Health/Div. of Pediatric Dentistry</td>
<td>33</td>
<td>12</td>
</tr>
<tr>
<td>Dr. Gary Cohen</td>
<td>Microbiology</td>
<td>27</td>
<td>11</td>
</tr>
<tr>
<td>Dr. Denis Kinane</td>
<td>Dean's Office</td>
<td>23</td>
<td>10</td>
</tr>
<tr>
<td>Dr. Claire Mitchell</td>
<td>Anatomy &amp; Cell Biology</td>
<td>21</td>
<td>8</td>
</tr>
<tr>
<td>Dr. Yan Yuan</td>
<td>Microbiology</td>
<td>15</td>
<td>7</td>
</tr>
<tr>
<td>Dr. Hydar Ali</td>
<td>Pathology</td>
<td>13</td>
<td>7</td>
</tr>
<tr>
<td>Dr. Kathleen Boesze-Battaglia</td>
<td>Biochemistry</td>
<td>19</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Frank Setzer</td>
<td>Endodontics</td>
<td>16</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Sunday Akintoye</td>
<td>Oral Medicine</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Kelly Jordan-Sciutto</td>
<td>Pathology</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Bekir Karabucak</td>
<td>Endodontics</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Markus Blatz</td>
<td>Preventive &amp; Restorative Sciences</td>
<td>40</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Faizan Alawi</td>
<td>Pathology</td>
<td>24</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Marjorie Jeffcoat</td>
<td>Periodontics</td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Syngcuk Kim</td>
<td>Endodontics</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Joseph DiRienzo</td>
<td>Microbiology</td>
<td>7</td>
<td>5</td>
</tr>
</tbody>
</table>

* The h index was developed by J.E. Hirsch, Department of Physics, UCSD, and it attempts to measure the impact of an individual or department’s scientific research output. The calculation is based on a list of publications ranked in descending order by the “times cited” count. As an example, an h index of 20 means there are 20 items that have 20 citations or more each. Hirsch’s full article on the h index can be found in PNAS 102 (46): 16569-16572 November 15 2005.

These lists were generated using the Scopus database, and the Author IDs found within that system. Articles published in journals that are not indexed in Scopus, are not included in the calculation. The articles that were included were published between January 1, 2010 and December 31, 2014. It should be noted that publication and citation practices differ among disciplines and specialties.
2014 High Impact Articles: Basic Science Departments

Among the original research articles published by standing faculty within the Penn Dental Medicine basic science departments in 2014, following are the articles by senior authors that appeared in journals with the five highest impact factors.*

<table>
<thead>
<tr>
<th>AUTHORS</th>
<th>ARTICLES</th>
<th>JOURNAL</th>
<th>IMPACT FACTOR*</th>
<th>DEPARTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maekawa, T., Krauss, J.L., Abe, T., Jotwani, R., Triantafilou, M., Triantafilou, K., Hashim, A., Hoch, S., Curtis, M.A., Nussbaum, G., Lambris, J.D., Hajishengallis, G.</td>
<td>P. gingivalis manipulates complement and TLR signaling to uncouple bacterial clearance from inflammation and promote dysbiosis</td>
<td>Cell Host and Microbe</td>
<td>12.2</td>
<td>Microbiology</td>
</tr>
</tbody>
</table>

2014 High Impact Articles: Clinical Departments

Among the original research articles published by standing faculty within the Penn Dental Medicine clinical departments in 2014, following are the articles by senior authors that appeared in journals with the five highest impact factors.*

<table>
<thead>
<tr>
<th>AUTHORS</th>
<th>ARTICLES</th>
<th>JOURNAL</th>
<th>IMPACT FACTOR*</th>
<th>DEPARTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stoopler, E.T., Sollecito, T.P.</td>
<td>Recurrent gingival and oral mucosal lesions</td>
<td>JAMA</td>
<td>30.4</td>
<td>Oral Medicine</td>
</tr>
<tr>
<td>Bhattacharya, R., Xu, F., Dong, G., Li, S., Tian, C., Ponugoti, B., Graves, D.T.</td>
<td>Effect of bacteria on the wound healing behavior of oral epithelial cells</td>
<td>PLoS ONE</td>
<td>3.5</td>
<td>Periodontics</td>
</tr>
</tbody>
</table>
2014 High Impact Review Articles

Among the review articles published by standing faculty within the Penn Dental Medicine in 2014, following are the articles by senior authors that appeared in journals with the five highest impact factors.*

<table>
<thead>
<tr>
<th>AUTHORS</th>
<th>ARTICLES</th>
<th>JOURNAL</th>
<th>IMPACT FACTOR*</th>
<th>DEPARTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hajishengallis, G.</td>
<td>Immunomicrobial pathogenesis of periodontitis: Keystones, pathogens, and host response</td>
<td>Trends in Immunology</td>
<td>12.0</td>
<td>Microbiology</td>
</tr>
<tr>
<td>Lamont R.J., Hajishengallis G.</td>
<td>Polymicrobial synergy and dysbiosis in inflammatory disease</td>
<td>Trends in Molecular Medicine</td>
<td>10.1</td>
<td>Microbiology</td>
</tr>
<tr>
<td>Setzer, F.C., Kim, S.</td>
<td>Comparison of long-term survival of implants and endodontically treated teeth</td>
<td>Journal of Dental Research</td>
<td>4.1</td>
<td>Endodontics</td>
</tr>
</tbody>
</table>

*The Impact Factor identifies the frequency with which an average article from a journal is cited in a particular year. This number can be used to evaluate or compare a journal’s relative importance to others in the same field. Journal impact factors are reported in Thomson Reuters Journal Citation Reports®. The JCR Science Edition, 2013, was used for these figures.

Research & Scholarship Facts & Figures

164 research articles were published by Penn Dental Medicine standing faculty in 2014...........a 164.5% increase over 2009.

148 articles were published by standing faculty in 2013

103 articles were published by standing faculty in 2010

116 articles were published by standing faculty in 2012

62 articles were published by standing faculty in 2009

126 articles were published by standing faculty in 2011

$17.27M was awarded to Penn Dental Medicine investigators for research grants in FY14.
## Top Clinical Department Grant Awards

In 2014, the top five new/competing renewals/non-competing grant awards within the Penn Dental Medicine clinical departments included:

**Expanding Public Health Experiential Learning in Predoctoral Dental Education**  
Principal Investigator: Dr. Joan Gluch, Div. of Community Oral Health  
(Health Resources & Services Administration, $493,956, 7/1/2014 – 6/30/2015)

**Diabetes-Enhanced Experimental Periodontitis**  
Principal Investigator: Dr. Dana Graves, Dept. of Periodontics  
(National Institutes of Health, $455,041, 12/1/2014 – 11/30/2015)

**Dendritic Cells and Periodontal Disease**  
Principal Investigator: Dr. Dana Graves, Dept. of Periodontics  
(National Institutes of Health, $400,000, 6/1/2014 – 5/31/2015)

**Scholarships for Disadvantaged Students (SDS)**  
Principal Investigator: Dr. Joan Gluch, Div. of Community Oral Health  
(Health Resources & Services Administration, $381,122, 7/1/2014 – 6/30/2015)

**Diabetic Fracture Healing**  
Principal Investigator: Dr. Dana Graves, Dept. of Periodontics  
(National Institutes of Health, $351,918, 9/1/2014 – 8/31/2015)

## Top Basic Science Department Grant Awards

In 2014, the top five new/competing renewals/non-competing grant awards within the Penn Dental Medicine basic science departments included:

**Chloroplast F.VII-CTB for Oral Tolerance Induction**  
Principal Investigator: Dr. Henry Daniell, Dept. of Biochemistry  
(Novo Nordisk Pharmaceuticals, Inc., $1,549,999, 5/1/2014 – 4/30/2017)

**Oligodendrocyte Damage and Dysfunction in HIV-Associated Neurocognitive Disorder**  
Principal Investigator: Dr. Kelly Jordan-Sciutto, Dept. of Pathology  
(National Institutes of Health, $532,571, 7/1/2014 – 6/30/2015)

**Degradative Processes in RPE-Photoreceptor Renewal**  
Principal Investigator: Dr. Kathleen Boesze-Battaglia, Dept. of Biochemistry  
(National Institutes of Health, $482,081, 2/1/2014 – 1/31/2015)

**Oral Immune Modulatory Therapy Using Antigens Bioencapsulated in Plant Cells**  
Principal Investigator: Dr. Henry Daniell, Dept. of Biochemistry  

**Molecular Biology of Virulence in Periodontal Disease**  
Principal Investigator: Dr. Edward Lally, Dept. of Pathology  
(National Institutes of Health, $414,550, 3/14/2014 – 1/31/2015)

## Top Overall Cumulative Award Amounts

In 2014, those Penn Dental Medicine principal investigators with the top five cumulative grant award amounts included the following.

<table>
<thead>
<tr>
<th>FACULTY</th>
<th>ARTICLES</th>
<th>2014 TOTAL AWARDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Henry Daniell</td>
<td>Biochemistry</td>
<td>$2,180,092</td>
</tr>
<tr>
<td>Dr. George Hajishengallis</td>
<td>Microbiology</td>
<td>$1,956,079</td>
</tr>
<tr>
<td>Dr. Dana Graves</td>
<td>Periodontics</td>
<td>$1,368,229</td>
</tr>
<tr>
<td>Dr. Elisabeth Barton</td>
<td>Anatomy &amp; Cell Biology</td>
<td>$939,725</td>
</tr>
<tr>
<td>Dr. Kathleen Boesze-Battaglia</td>
<td>Biochemistry</td>
<td>$882,081</td>
</tr>
</tbody>
</table>
PROVISIONAL PATENTS
Filed between July 2012 – February 2015

17 provision
al patents were filed by Penn Dental Medicine faculty between July 2012 – February 2015

8 in the Department of ANATOMY & CELL BIOLOGY
6 to Dr. Henry Daniell
2 to Dr. Elisabeth Barton

4 in the Department of MICROBIOLOGY
2 to Dr. Robert Ricciardi
1 to Dr. George Hajishengallis
1 to Dr. Yan Yuan

2 in the Department of PATHOLOGY
to Dr. Kelly Jordan-Sciutto

2 in the Department of PERIODONTICS
1 to Dr. Joseph Fiorellini
1 to Dr. Dana Graves

1 in the Department of ORTHODONTICS/DIV. OF COMMUNITY ORAL HEALTH/ DIV. OF PEDIATRICS
to Dr. Hyun (Michel) Koo

US PATENTS
Issued between July 2012 – February 2015

4 US PATENTS were issued to Penn Dental Medicine faculty between July 2012 – February 2015

3 in the Department of MICROBIOLOGY
2 to Mihai Ciustea, Dr. Robert Ricciardi, Janice Elaine Young
1 to Dr. Joseph DiRienzo

1 in the Dept. of PREVENTIVE & RESTORATIVE SCIENCES/ DEPT. OF ENDODONTICS
to Miri Kim, Dr. Francis Mante, Dr. Syngcuk Kim
Since isolating a population of unique stem cells more than a decade ago, Dr. Shi has gone on to explore their potential as therapeutic agents to address the damaging effects of everything from tooth decay and gum disease to lupus and cancer.
OROFACIAL STEM CELLS

A BABY TOOTH GUIDED PENN DENTAL MEDICINE’S SONGTAO SHI TO STEM CELL INSIGHTS

ONE OF THE KEYS TO Dr. Songtao Shi’s productive career in research came from a seemingly humble item: his daughter’s first baby tooth.

Since isolating a population of unique stem cells from baby teeth more than a decade ago, Dr. Shi, who joined Penn Dental Medicine this fall as Professor and Chair of the Department of Anatomy & Cell Biology, has gone on to explore the great potential of stem cells as therapeutic agents to address the damaging effects of everything from tooth decay and gum disease to lupus and cancer.

In coming to Penn, he hopes to foster collaborative research that spans the basic and clinical sciences as he brings the mindset of a trained clinician to the laboratory bench.

FROM BEDSIDE TO BENCH

Dr. Shi attended dental school at Beijing’s Peking University, gained specialized training in pediatric dentistry, and then worked in the clinic for a few years before heeding the desire to pursue a research career. At that time, opportunities to conduct research alongside a clinical career were somewhat limited in China, so he and his wife moved to the United States, both earning their doctoral degrees at the University of Southern California (USC) and then pursuing postdoctoral training at the University of California, San Francisco.

In graduate school and during his postdoctoral training, Dr. Shi investigated the mechanism of cataract and osteoblast differentiation, but stepped back into clinical dentistry after taking a position at the National Institutes of Health’s National Institute of Dental and Craniofacial Research in Bethesda, Md., in 1999. Encouraged to pursue research in that position, his studies turned to stem cell biology.
The beauty of stem cells is their versatility. Depending on their type, stem cells can differentiate to create a variety of different cell types. Some parents bank their newborn’s umbilical cord blood, hoping the stem cells within could eventually be used to correct certain diseases, such as diabetes, cardiovascular conditions, or cancers.

**NO TOOTH FAIRY**

A few years after moving to Maryland, Dr. Shi’s daughter, Julia, lost her first tooth at 6. Accustomed to looking after her dental-care needs, Dr. Shi examined the tooth after it came out and noticed a tiny bit of rosy tissue stuck to the root end. By the time he realized this tissue was dental pulp, the living part of the tooth, it was too late to extract any cells from it. But he couldn’t shake the suspicion that the pulp of the baby tooth might contain some interesting biological characteristics. When a second tooth of Julia’s began to wiggle a week later, though, he was ready with a test tube of culture medium.

“**It is exciting to publish high-impact papers, but it is more exciting to see a patient who was going to die survive because of something you’ve done.”**

The stem cells he was able to isolate from the dental pulp were a new breed, distinct from the stem cells other researchers had discovered in infants’ umbilical cord blood and also different from adult stem cells isolated from skin, hair, blood, and heart cells.

To learn more about the baby teeth stem cells, which Dr. Shi termed SHED, for stem cells from human exfoliated deciduous teeth, he began collecting lost baby teeth from Julia’s friends as well.

“If there was a birthday party, I was always there, collecting teeth,” he says.

With his collaborators at NIDCR, Dr. Shi began exploring the possibilities. While the SHED cells were slow to start growing, after a short time they multiplied rapidly and were found to live longer and be more robust than previously studied adult stem cells. They were also capable of differentiating into dental pulp and neural and fat cells.

After publishing these findings in *Proceedings of the National Academy of Sciences*, Dr. Shi and his team also went on the lookout to see if stem cells were lurking in other tissues in the orofacial area. At NIDCR and at USC, where Dr. Shi was a member of the faculty for more than eight years before coming to Penn, he and his colleagues identified and characterized new types in the periodontal ligament, in the dental pulp of permanent teeth, and in tendons.

**VERSATILE APPLICATIONS**

Now Dr. Shi is investigating the potential of stem cell treatments in cell culture, in animal models, and in human clinical trials.

Among the first clinical trials he helped lead, a collaboration with colleagues in China, involved treating lupus patients with transplants of mesenchymal stem cells. Along with the many problems these patients faced from their condition, they also happened to have gum disease. Treating these patients using the stem cells induced lengthy remissions in their symptoms.

Additional aspects of Dr. Shi’s work also have found impact beyond the dental field. In a recent study published in the *Journal of Experimental Medicine* with colleagues from Penn, USC, Nanjing University in China and elsewhere, Dr. Shi helped identify the signaling pathway that is involved in deficiencies in the differentiation of bone marrow mesenchymal stem cells that can result in a chronic autoimmune disease known as systemic sclerosis. This condition involves, among other symptoms, an overgrowth of connective tissues and patients have problems with their bones.

The researchers’ study showed that treating mice that had systemic sclerosis with rapamycin, a drug commonly used to reduce the likelihood of organ rejection in kidney
“Right now if you have to replace jaw bone, a surgeon has to take bone from another area, like the tibia,” Dr. Shi says. “Re-growing the mandible would eliminate this need. There is huge demand in this area, and we are glad to see we have already started in the game.”

Also, a recent study published in the Cell Stem Cell with collaborators from the Capital Medical University, Peking University, and the NIH identified that hydrogen sulfide plays a crucial role in controlling mesenchymal stem cell function.

Dr. Shi is collaborating with Dr. Anh Le, Chair and Norman Vine Endowed Professor of Oral Rehabilitation in Penn Dental Medicine’s Department of Oral and Maxillofacial Surgery/Pharmacology, to use the principles of stem cell therapy to treat osteonecrosis, a condition that arises in some people who take bisphosphonate drugs that are used to treat melanomas or to prevent osteoporosis.

“We’re hoping to find a drug that is already FDA-approved that has a similar mechanism of action to the cell therapy,” Dr. Shi says.

Through work in human patients, in animal models, and in the lab, Dr. Shi is making good on the promise of translational medicine.

“Through the center we’ll have young faculty from China come to Penn to train and focus on translational research,” Dr. Shi says. “We’re opening the door to opportunities to solve clinical problems.”

Fundamentally, Dr. Shi hopes to realize the power of translational medicine to save and improve lives by capitalizing on the potential of stem cell biology.

“One day we were working and my collaborator in China told me something that has made me feel differently about my work,” Dr. Shi says. “He said, ‘You know, it is exciting to publish high-impact papers, but it is more exciting to see a patient who was going to die survive because of something you’ve done.’”

—By Katherine Unger-Baillie
ANATOMY & CELL BIOLOGY

RECENT GRANT AWARDS
National Institutes of Health grant to study the regulation of Lysosomal pH in RPE cells. This research will help in understanding new ways that cells respond to inflammatory signals and test the ability of nanoparticles to prevent damage seen in many cell types as we age.
Principal Investigator: Dr. Claire Mitchell, Associate Professor, Dept. of Anatomy & Cell Biology

University of California-Los Angeles (National Institutes of Health) grant to study epigenetic regulation of mesenchymal stem cell differentiation.
Principal Investigator: Dr. Claire Mitchell, Professor and Chair, Dept. of Anatomy & Cell Biology

Biochemistry

SELECTED PUBLICATIONS
Recently published work by department researchers (indicated in bold).


ENDODONTICS

2014 TOP-READ
JDR ARTICLE
An article by Dr. Syngcuk Kim, Louis I. Grossman Professor, Dept. of Endodontics, and Dr. Frank Setzer, Assistant Professor of Endodontics, comparing the long-term survival of implants and endodontically treated teeth was among the 10 top-read Journal of Dental Research articles in 2014.

2014 TOP-READ
JDR ARTICLE

NEWS/Achievements
Dr. Sumin Lee (GD’15), an endodontic resident and DScD candidate conducting research in the lab of Dr. Anh Le, Chair, Dept. of Oral & Maxillofacial Surgery, was awarded the Best Oral Presentation Award at the Penn Endo Global Symposium & Austrian Society of Endodontology Annual Meeting, held in Vienna in December. Her research project was DPSCs derived from pulps have immuno-suppressive effects on macrophages.

APPOINTMENTS
Dr. Bekir Karabucak, Associate Professor of Endodontics and Postdoctoral Endodontic Program Director, was named Interim Chair of the Department of Endodontics in October 2014.

SELECTED PUBLICATIONS
Recently published work by department researchers (indicated in bold).


MICROBIOLOGY

RECENT GRANT AWARDS
National Institutes of Health grant to develop drugs for preventing and treating smallpox in the event of viral release by an act of bioterrorism. The scope of the grant is to bring lead molecules up to the Investigational New Drug filing.
Principal Investigator: Dr. Robert Ricciardi, Professor and Chair, Dept. of Microbiology

National Institutes of Health grant to study how the homoeostatic factor Del-1 regulates inflammation and osteoclastogenesis, and identify key functional sites within the Del-1 polypeptide that could be exploited as drugs in bone loss disorders such as periodontitis.
Principal Investigator: Dr. George Hajishengallis, Professor, Dept. of Microbiology
SELECTED PUBLICATIONS

Recently published work by department researchers (indicated in bold).


Zenobia C, Hajishengallis G, Porphyromonas gingivalis virulence factors involved in subversion of leukocytes and microbial dysbiosis. Virulence. 2015 Feb 5;0. DOI:10.1080/21505594.2014.999567 [do].

AAOM AWARDEES

Dr. Thomas Sollecito (D’89, GD’91), Professor and Chair of Oral Medicine, received the 2015 American Academy of Oral Medicine (AAOM) Abraham Reiner Diamond Pin Award, and Dr. Eric Stoopler (D’99, GD’02) Associate Professor and Director of the Oral Medicine Residency Program, was this year’s recipient of the Herschfus Memorial Award by the AAOM.

The Abraham Reiner Diamond Pin Award — the highest award presented by the AAOM—recognizes unusual, exceptional, and dedicated service to the Academy.

The Herschfus Memorial Award recognizes both service to the AAOM and the field of oral medicine. The awards were presented at the AAOM Annual Meeting in San Diego, Calif., April 2015.

AAOM AWARDEES

Dr. Thomas Sollecito (D’89, GD’91), Professor and Chair of Oral Medicine, received the 2015 American Academy of Oral Medicine (AAOM) Abraham Reiner Diamond Pin Award, and Dr. Eric Stoopler (D’99, GD’02) Associate Professor of Oral Medicine, was also elected Vice President of the AAOM at the Joint Meeting of the AAOM and American Academy of Oral and Maxillofacial Pathology.

RECENT GRANT AWARDS

Carolina’s Health Care System grant on oral hygiene, periodontal disease and infective endocarditis. The goal of this project is to study the role of poor oral hygiene and periodontal disease in patients who develop infective endocarditis (IE), an infection of the heart valves. IE has been associated with nearly 1.6 million years of healthy life lost due to death — 30–45% of which may originate from oral bacteria.

Principal Investigator: Dr. Thomas Sollecito, Professor and Chair of Oral Medicine.

SELECTED PUBLICATIONS

Recently published work by department researchers (indicated in bold).


ORAL SURGERY/PHARMACOLOGY

NEWS/ACHIEVEMENTS

Dr. Eric Granquist (M’07, GD’10, RES’10), Assistant Professor of Oral Surgery, has been named Chair of the Oral & Maxillofacial Surgery Residency Review Committee within the ADA’s Commission on Dental Accreditation (CODA), along with an appointment as a CODA commissioner.

RECENT GRANT AWARDS

Oral and Maxillofacial Surgery Foundation grant to delineate the role of Notch3 signaling in the regulation of stem cell properties and sustained autocrine secretory function of GCT-MSCs in the pathogenesis of jawbone giant cell tumors.

Principal Investigator: Dr. Qilin Xu, Visiting Scholar

American Association of Endodontists Foundation grant to study new therapeutic approaches for irreversible pulpitis using anti-inflammatory and endogenous dental pulp stem cells-based strategies.

Principal Investigator: Dr. Sumin Lee, Dept. of Endodontics Resident

SELECTED PUBLICATIONS

Recently published work by department researchers (indicated in bold).


In November 2014, Dr. Robert L. Vanardsall, Professor, Dept. of Orthodontics, received an Honorary Degree from San Juan Bautista, Lima Peru, and in December 2014 he was honored with the Paul Herren Award from the University of Bern, Switzerland.

2ND EDITION OF CLASSIC TMJ TEXT

The second edition of the *Atlas of Temporomandibular Joint Surgery* (recently published by Wiley) is a major revision of Dr. Peter Quinn’s (D’74, GD’78) classic work. Taking into account new procedures, equipment, and evidence-based findings from the latest research in TMJ treatment, this new book by Dr. Quinn, Schoenleber Professor of Oral Surgery, and Dr. Eric Granquist (M’07, GD’10, RES’10), Assistant Professor of Oral Surgery, focuses on the surgical remedies for disorders that are beyond conservative treatment. Also contributing from Penn Dental Medicine are Dr. Helen Giannakopoulos (GD’02) and Dr. David Stanton (D’88, M’92, GD’95).

ORTHODONTICS

NEWS/ACHIEVEMENTS

The 62nd Annual Alumni Meeting of the Department of Orthodontics will be held on Friday, October 9, 2015 at The Union League of Philadelphia. This year’s J. Henry O’Hern Jr. Alumni Day Lecture will be delivered by Dr. Kee-Joon Lee, Professor of Orthodontics, Yonsei University, Seoul, Korea, speaking on three-dimensional orthodontic mechanics, soft tissue/designing the face, and lingual orthodontics.

Attendees are eligible to receive continuing education credit hours for the Alumni Day program.

Lizeng Gao, a postdoctoral researcher in the lab of Dr. Hyun (Michel) Koo, Professor, Dept. of Orthodontics, was awarded the 2015 International Association for Dental Research Innovation in Oral Care Award (see story, page 2).

Dr. Peter Greco, Clinical Professor of Orthodontics, has been the author of the column “Ethics in Orthodontics” within *The American Journal of Orthodontics and Dentofacial Orthopedics* since 2011 — look for his ongoing contributions.

Dr. Jerome Sklaroff, Clinical Professor of Orthodontics, was this year’s recipient of the OB Vaughan Special Recognition Award from the American Association of Orthodontists (AOB); the AOB established this award to acknowledge those who have made a significant contribution to the orthodontic specialty.

RECENT GRANT AWARDS

International Association for Dental Research grant to study the development of a novel drug delivery system that retains antibiofilm agents at the tooth-biofilm interface and rapidly release them in response to acidic pH. The study will design different pH-activated nanocarriers and evaluate them using the lab’s in vitro and in vivo cariogenic biofilm models.

Principal Investigator: Dr. Michel Koo, Professor, Dept. of Orthodontics, and Divisions of Community Oral Health & Pediatrics.
SELECTED PUBLICATIONS
Recently published work by department researchers (indicated in bold).

Chung C-H, Dugoni SA. Appropriate timing for correction of malocclusions

Greco PM. Temporomandibular disorders


PATHOLOGY

SELECTED PUBLICATIONS
Recently published work by department researchers (indicated in bold).


PERIODONTOLOGY

SELECTED PUBLICATIONS
Recently published work by department researchers (indicated in bold).


NEWS/ACHIEVEMENTS
Dr. Alan Polson, Professor, Dept. of Periodontics, received the Robert Morris Award from the Welsh Society of Philadelphia. Given annually to a distinguished Welsh-American, the award recognizes Dr. Polson’s many years of research and teaching at Atrix Laboratories, the University of Rochester, and the University of Pennsylvania.

RECENT GRANT AWARDS
International Team for Implantology grant to examine changes in gene expression during implantitis.
Principal Investigator: Dr. Dana Graves, Professor, Dept. of Periodontics

National Institutes of Health grant to test the hypothesis that diabetes negatively affects osteoblasts/osteocytes to aggravate periodontal bone loss.
Principal Investigator: Dr. Dana Graves, Professor, Dept. of Periodontics

Media grant designed to establish a new periodontal diagnostic measurement system using Cone beam CT scans. This will make it less invasive for patients, less time consuming, more accurate, and a standardized measurement for clinicians.
Principal Investigator: Dr. Keisuke Wada, Assistant Professor of Periodontics

National Institutes of Health grant to study and unravel epigenetic mechanisms in human inflammatory dysfunctions that render patients susceptible to periodontal disease.
Principal Investigator: Dr. Denis Kinane, Professor of Periodontics & Pathology and Morton Amsterdam Dean

PERIODONTOLOGY

SELECTED PUBLICATIONS
Recently published work by department researchers (indicated in bold).

Morton Amsterdam Program and Celebration of Life June 13, 2015

60TH ANNIVERSARY
The Department of Periodontics will celebrate its 60th anniversary with the Penn Esthetics Symposium, June 11-13, 2015, and pay tribute to the life of Dr. Morton Amsterdam (C’43, D’45) through a special program on June 13. Learn more at www.dental.upenn.edu/esthetics2015.
PREVENTIVE & RESTORATIVE SCIENCES

CONTEMPORARY IMPLANT THERAPY

Dr. Markus Blatz, Professor and Chair of Preventive & Restorative Sciences, recently co-authored (with Ifaki Gamborena) the book “EVOLUTION — Contemporary Protocols for Anterior Single-Tooth Implants.” Published by Quintessence Publishing, the highly visual text charts new paths for the treatment of single-tooth dental implants in the esthetic zone. The authors present advanced implant protocols step-by-step, providing guidance on the surgical and restorative details that are key to optimum esthetics, including implant hard and soft tissue integration, implant selection, implant placement principles, soft tissue esthetics, minimally invasive surgical procedures, and optimized restorative protocols. Research sections throughout the book provide an overview of scientific evidence on essential implant topics.

NEWS/ACHIEVEMENTS

Dr. Beverley Crawford, Director of Diversity Affairs and Assistant Professor of Clinical Restorative Dentistry, has been awarded the ADEA/AAL Faculty of Color Tuition Scholarship for Professional Development: ADEA/AAL Compass Program for Academic Achievement. The scholarship was created to enable faculty of color to participate in programs that will improve their teaching skills, increase their leadership skills, and advance their understanding and mastery of other critical elements of a successful academic career.

RECENT GRANT AWARDS

Christopher L. Moseley Foundation grant to investigate titanium surface treatments conducive to cartilage formation and integration. Principal Investigator: Dr. Francis Mante, Associate Professor, Dept of Preventive & Restorative Sciences

SELECTED PUBLICATIONS

Recently published work by department researchers (indicated in bold).


DIGITAL UPGRADES

The Division of Community Oral Health’s PennSmiles mobile clinic/van, outfitted to provide restorative and preventive care to children throughout the community, has new technology upgrades to help increase patient workflow. Enhanced Wi-Fi service and a dedicated server on the van now enable students and faculty to communicate directly back to the School. In addition, new computers; chairside, mounted monitors; and a command center at the back of the van, also allow x-ray distribution chair-side.
Leadership Gift, Take a Seat Campaign Set Stage for William W. M. Cheung Auditorium

DR. WILLIAM W. M. CHEUNG (D’81, GD’82), Chair of Penn Dental Medicine’s Board of Overseers, has made a leadership gift to the Evans Building Centennial Renaissance project, pledging support to upgrade a vital educational space with the naming of the William W. M. Cheung Auditorium.

The auditorium, presently known as B-60, is the major lecture hall on the lower concourse of the Evans Building — one of the most heavily-used academic spaces in the School.

“B-60 Auditorium is very special to me going back to my student days. That’s where we spent a lot of time attending lectures in dental school,” recalls Dr. William Cheung. “It brings back a lot of fond memories, as well as memories of challenges, and I’m excited to take part in helping to enhance this space for our students.”

The enhancements planned for the auditorium as part of the Evans Building Centennial Renaissance project directly respond to needs articulated by current students and faculty, including better seating, digital connectivity, and improved aesthetics and lighting.

To fully fund the auditorium updates, alumni and friends are invited to be part of the Take a Seat Campaign. Donors can “name” a seat in the William W. M. Cheung Auditorium with a tax-deductible gift of $1,000. All donors will be recognized through signage in the transformed facility.

The Evans Building Centennial Renaissance project, set to begin this fall, will transform the 100-year-old Evans Building throughout. With the renovation, the lower concourse will be fully devoted to student activities and instruction. In addition to the William W. M. Cheung Auditorium, this level will include a state-of-the-art preclinical lab and CE training center, an advanced simulation lab, small group study and meeting rooms, a student lounge, and the offices of Student Affairs and Academic Affairs.

For more information on the Evans Building Centennial Renaissance project, visit www.dental.upenn.edu/evans; to make a gift to the Take a Seat Campaign, visit www.dental.upenn.edu/give.
AT 16 YEARS OLD, Dr. Nhat-Khai Do (D’03) emigrated to the United States as part of a humanitarian effort to assist families of former Vietnamese government officials. Her older brother had previously left Vietnam when he was 13. The reunited family at first went to Virginia and then settled in a small Pennsylvania town.

“I have received many great opportunities and help to get where I am today,” says Dr. Do, who has a private dental practice in Phoenixville, Pa. “My parents had to rebuild everything from the start, and any kind of help we could get we really appreciated.”

Today, Dr. Do pays that help her family received forward as one of the founding members of Vietnamese United for Health, a group established in early 2014 to provide health-care access and education to the Vietnamese community in the Philadelphia region. “I feel for these people, I could relate,” Dr. Do says.

The group includes a number of health-care professionals, including Dr. Giang T. Nguyen, Assistant Professor of Family Medicine and Community Health at the Hospital of the University of Pennsylvania, who provide a range of services, including flu shots, hepatitis B screenings, and information about such things as health insurance and gambling addiction.

Dr. Do says it is the first health-care related group in the region that specifically serves the Vietnamese community. While they thought the need was there, the group’s leaders still were surprised when almost 1,000 people showed up at the first VUH event held last April at a rented Vietnamese restaurant in South Philadelphia. Dr. Do says they were expecting about 400 to 500 people to attend.

“I participate in many cultural activities through the Vietnamese community in Philadelphia,” she says, “yet I didn’t realize so many people needed access to health care.”

It was clear Vietnamese United for Health was serving a vital purpose. “We saw some people who hadn’t had any dental care,” Dr. Do says. “In Vietnam, dental care would be a luxury. Many people aren’t educated in prevention, they only seek help when there is a problem.”

Before that first event, Dr. Do had reached out to Dr. Joan Gluch, Interim Chief of the Division of Community Oral Health, which led to there being a group of student volunteers on hand to provide additional support. For four busy hours that day, Dr. Do and several fourth-year students performed about 150 dental screenings for children up to elderly attendees, while other Penn Dental Medicine students provided oral health education.

Building on that connection, three third-year dental students this summer requested to do their honors program community project with Vietnamese United for Health. Since August, students Andrew Fraser (D’16), Travis Williams (D’16) and Henry Ma (D’16) have worked with Dr. Do at numerous community health events, teaching proper dental hygiene...
practices, doing oral cancer screenings, providing information and resources for those who need additional care, as well as toothbrushes, toothpaste, and floss for hundreds of people.

“We saw the work Dr. Do was doing, and recognized an opportunity both to support a Penn Dental alumna and to reach out to an underserved community,” Fraser explains of their interest in working with the group. “It has been very rewarding to assist Dr. Do and help so many people who have attended the VUH community health events.”

Dr. Do appreciates the support they provide for the relatively new organization for which she is the only dentist. “It’s a learning experience for the students,” she says. “They’re passionate about what they’re doing.”

“I participate in many cultural activities through the Vietnamese community in Philadelphia, yet I didn’t realize so many people needed access to health care.”

Nhat-Khai Do (D’03)

Eventually, Dr. Do would like to see Vietnamese United for Health expand enough to be able to provide clinical services. “I hope in the future we will have enough funding and support so that we can provide treatment to those in need,” she says.

Despite long hours in her own practice and the demands of raising two young children, Dr. Do says the opportunity to give back to the Vietnamese community is very gratifying.

“I understand to get a new start in a new country is not easy,” she says. “I know many of these immigrants don’t have access to care due to language barriers, financial restrictions, or time. And after every volunteer event, I know we could do so much more.”

CONTINUING TO BUILD its Office of Development and Alumni Relations, Penn Dental Medicine welcomed Liz Ketterlinus to the new post of Senior Associate Dean of Development & Alumni Relations this past fall. In this new leadership role, Ketterlinus is responsible for the overall conceptualization, planning, and execution of a coordinated program of private source fundraising, alumni relations, and communications for Penn Dental Medicine, supervising a staff of six.

Prior to joining Penn Dental Medicine, Ketterlinus served as Interim Vice President at Rutgers Biomedical Health Science/Rutgers University Foundation. Over the past eight years, she was also the Associate Vice President of the Rutgers University Foundation and the Vice President of the Foundation of the University of Medicine and Dentistry of New Jersey/New Jersey Health Foundation.

Ketterlinus has also held leadership positions within development at Montgomery Hospital, Gwynedd-Mercy College, Drexel University, and Georgetown University Medical Center. She holds a BA in Development Economics from Georgetown as well as an MA in Russian Area Studies: Soviet Economics.

As part of the growth within the Office of Development and Alumni Relations, Maren Gaughan was named Associate Dean for Leadership Giving. In this role, Gaughan, who has been with Penn Dental Medicine since 2010, is responsible for the creation and management of the leadership and major gift prospect pool at the School.

“I am delighted to be part of the Penn Dental Medicine team,” says Ketterlinus. “There is a wonderful legacy of philanthropy in place. Our department intends to build upon this to help PDM shape the future of dental education, research, and care.”

Ketterlinus welcomes and encourages alumni to reach out to her at ekett@dental.upenn.edu or 215-898-3328.
Alumni-Student Networking Event

On November 3, students networked with alumni, faculty, members of the Board of Overseers, and each other at the 2014 Penn Dental Medicine Alumni-Student Networking Event held at the Union League of Philadelphia.

PICTURED LEFT TO RIGHT: Dylan Bordonaro (C’07, D’11); Stefani Cheung (C’08, D’11); William Cheung (D’81, GD’82), Chair of the Board of Overseers; Scott Odell (D’82); and Betty Yip (D’15).

Greater NY Alumni Reception, Young Alumni After Party

Each year, fourth-year dental students have the opportunity to volunteer for the Greater New York Dental Meeting. Along with attending the conference, students have a chance to attend Penn Dental Medicine’s annual Alumni Reception at the Penn Club.

After the alumni reception, the first young alumni “After Party” was held at Stout NYC. Thirty-five young alumni came out for this event and had a great time learning more about the school’s Young Alumni Initiative. Because of overwhelming interest, Penn Dental Medicine has now created a young alumni interest group where young alumni can come together and share ideas to help further engage the young alumni community. Please contact Lindsay Murphy at lhonzok@dental.upenn.edu for more information.
Resources to Stay, Get Connected

Looking to find a former classmate? Get your practice in front of potential patients? Hire a new associate? There are number of resources to help Penn Dental Medicine alumni do just that. Here is a brief review of these easy online resources:

**QuakerNet**

QuakerNet is Penn’s secured alumni directory, where you can keep your contact information current as well as search for fellow classmates and peers. Simply create an account at www.myquakernet.com/dental. With recent enhancements to the site, you can now also view Penn Dental Medicine news and Tweets directly from your QuakerNet profile. It’s an easy way to catch up on the latest news from the School, while connecting with other alumni!

**Find a Penn Dentist**

Find a Penn Dentist, located prominently on the Penn Dental Medicine web site, allows visitors to the site (whether other clinicians or potential patients) to search a directory of Penn Dental Medicine alumni practices by city/state, zip code, or specialty. Register your practice by contacting the Office of Alumni Relations at 215-898-8951 or through the site directly at www.dental.upenn.edu/map.

**Careers**

Career Opportunities is an online resource for those beginning a job search and a place to submit a posting if you are seeking a new employee or looking to sell your practice. Visit www.dental.upenn.edu/careers.

**Social Media**

Social Media offers a number of ways you can engage with Penn Dental Medicine. Join “Penn Dental Medicine” on Facebook or follow “PennDentalMed” on Twitter and Instagram. You can also connect to “Penn Dental Medicine Alumni” on LinkedIn (a private group of nearly 400 Penn Dental Medicine alumni and current students).
IN THE MIDST OF AN ICY North Carolina winter, Dr. Francis G. Serio (D’80) was already thinking ahead to 10 days in July, when he will return to the Dominican Republic for the 34th summer to spend a week providing dental care to “Los Olvidados” — the forgotten ones, he says — the island poor who have almost no access to dental care, except when Dr. Serio arrives.

Since his first trip in 1982, Dr. Serio estimates the annual Dominican Dental Mission Project, funded with private donations, has served more than 60,000 residents and provided more than $15 million in dental care over 33 years.

But it’s not just about dental care, says Dr. Serio, currently a dentist serving mostly low-income patients at David Bernstein Community Health Center in Greenville, N.C. The group also provides hope, he says, “and people can get from today to tomorrow if they’re hopeful.”

In recognition of his commitment to providing care for those in need, Dr. Serio will receive the 2015 American Dental Association (ADA) Humanitarian Award, given annually to dentists who have dedicated extraordinary time and professional skills to improve the oral health of underserved populations in the U.S. and abroad. He will be honored during ADA’s 2015 annual meeting, November 5-10 in Washington, D.C.

Dr. Serio is one of many Penn Dental Medicine alumni who provide dental care for the needy, and coincidentally, the service path of a fellow class of 1980 colleague — Dr. Pamela Alberto (D’80) — would also lead to the Dominican Republic. Dr. Alberto heads a dental mission to another part of the Dominican Republic each summer, where she treats children with teeth rotted from chewing sugar cane and adults who have never seen a dentist.

Perhaps not surprisingly, the notion of serving others runs deep at Penn Dental Medicine, where being engaged in the community and helping to make it a better place is a key part of its mission and educational goals.

Through a variety of outreach and service-learning programs, Penn Dental Medicine students provide oral health services to community members, while also broadening their understanding of and experience in public health issues. Since 2001, service learning has been a required part of the Penn Dental Medicine curriculum, and presently, students must complete at least 82 hours of service activities, while students in the community health honors program spend 120 hours helping to staff and coordinate educational and dental care programs with community partners.
“I have loved being a dentist. I have made great friends from this project, some of whom I only see in the Dominican Republic every year.”

DR. FRANCIS G. SERIO, D’80

A COMMITMENT TO SERVICE

In all, Penn Dental Medicine students contribute almost 14,000 service hours annually through both required and elective community experiences and the community service honors program. These programs increase community access to oral health care and provide students and faculty with opportunities to work with such community partners as the School District of Philadelphia, Sayre Health Center, and Philadelphia FIGHT.

“Participating in community activities allows dental students to understand the life experiences of a wider range of patients,” notes Dr. Joan Gluch, Interim Division Chief of Community Oral Health at Penn Dental Medicine. “While gaining clinical experiences, students also gain sensitivity to their patients’ needs and the impact of social and cultural factors on health, which prepares students to complete volunteer missions both locally and globally.”

Although community service was not a curricular requirement when Dr. Serio was a student, Penn Dental Medicine contributed to his ability to give back to the community by providing “great dental training,” says Dr. Serio, the son of a dentist and a “very spiritual” mother. “I felt comfortable and confident I could manage the clinical challenges I would face.”

Dr. Serio put those skills to use quickly. Two years out of Penn Dental Medicine, after his first year on the faculty at the University of Maryland School of Dentistry, he had a free month and made his first trip to the Dominican Republic. That summer, he was connected through the Catholic Medical Mission Board to a group of nuns in San Jose de Ocoa, primarily because they were bilingual and he didn’t speak Spanish, and realized they had the capacity to accept larger groups of volunteers.

That launched his annual mission to the impoverished country, which each summer includes dentists, dental students, and others to help with administration. Over the years, his wife, dentist Dr. Cheryl Serio, Director of Advanced Education in General Dentistry at East Carolina University School of Dental Medicine; his son, Andrew; and his daughter, Grace, now in medical school; have participated in the trip. Dr. Serio spent most of his career in academic dentistry, and has had many students volunteer for the mission over the years.

Once in the Dominican Republic, the group travels to a different town each day, doing fillings, extractions, partial and full dentures, and treating children. That first month in 1982, he treated a few hundred patients. Now, with two teams going to two locations, the mission saw as many as 1,300 patients last summer.

BASEBALLS AND TOOTHBRUSHES

Baseballs and toothbrushes — at first, these two things don’t seem to go together. But when poor children who almost never see dentists need to be coaxed into a treatment chair, Dr. Serio has found that a brand new baseball can be a powerful lure. “In that part of the Dominican Republic, they don’t see new baseballs too often,” Dr. Serio says of the wildly popular sport there.

In addition to treating patients, Dr. Serio is proud that the mission has helped eight Dominicans go to dental school, some of whom helped hold flashlights for mission dentists when they were young. Many of these dentists now provide care for Dominican communities throughout the year, making Dr. Serio’s efforts more sustainable and lasting. “It was one of the best things we did,” he says.

He is also gratified that many who have volunteered with the mission in the past have continued to serve needy populations, sometimes starting dental missions of their own to places in Central America and Cambodia. “We show them they can do it,” he says.

For his volunteer efforts, Dr. Serio has also received the President’s Volunteer Action Award in 1991 from President George H. W. Bush and the Daily Points of Light Award in 2001 from President George W. Bush.

“You have to be open to the spirit, where the unseen hand guides you,” says Dr. Serio. “I have loved being a dentist. I have made great friends from this project, some of whom I only see in the Dominican Republic every year. I see Dominican friends and I see American friends. We work hard and have a great time.”
NOT YOUR TYPICAL PLEASURE TRIP
Further up the eastern seaboard on a snowy March morning, Dr. Alberto was veering her four-wheel vehicle to Rutgers School of Dental Medicine, where she is Clinical Associate Professor in the Department of Oral and Maxillofacial Surgery, and discussing plans for her trip to the Dominican Republic just three days later.

Although the warmth of the Caribbean sun has its appeal at the tail end of a frigid winter, this would be no pleasure trip, although the rewards certainly would be plentiful. On March 8, Dr. Alberto and 19 others, including dental students, a nursing professor and nursing students, a physician, an engineer, and support staff would be flying into Santiago, renting four large passenger vans, loading up on food and supplies, and driving five hours to provide dental care in one of the poorest areas of the world.

Up in the hills that border the Dominican Republic and Haiti, where people live in towns with no electricity, running water, and very little food, Dr. Alberto and the group from Cheerful Heart Dental Mission would treat hundreds of adults and children in need of dental care during the one-week trip.

This is the fifth year the mission is returning to the region. Last year, Dr. Alberto and her colleagues treated 460 people, including 300 children, and performed 1,600 procedures, including extractions, restorations and root canals. They triage the most acute problems first, but also managed to seal 750 young teeth and provide fluoride treatments.

While in the Dominican Republic, Dr. Alberto also offers continuing education learning opportunities for local dentists and health care professionals who work with Dominican patients year-round. On the most recent trip, she lectured on advanced local anesthesia techniques.

Dr. Alberto says each mission costs about $25,000 and the group provided the equivalent of $165,000 in dental care last year.

To do all this, they need to lug everything they need to this remote location: each person on the mission takes two trunks of equipment as their baggage, so they can set up chairs, equipment, lights, and everything else needed to treat as many as possible in the short period of time.

Although based on the Dominican side of the border, the mission gets permission to go into Haiti and bring about 100 patients most in need of care to the clinic. Although some young children are frightened to go, Dr. Alberto says the promise of a meal overcomes their anxiety: “These little kids are lucky to get one meal a day, so they’ll get on the van with no parent because they’ll get food.”

“When I first went on this mission, I thought, this is why I became an oral surgeon, to help people. It’s changed my life.”

DR. PAMELA ALBERTO, D’80

Dr. Alberto, who also has a private practice in Sparta, N.J., says the opportunity she had at Penn Dental Medicine, which led her to oral surgery at a time when it was not a typical path for a woman, is key to her serving those in need.

“I got a great education at Penn, and even though community service wasn’t required, we took care of a lot of kids in local schools who were needy,” she says. “When I first went on this mission, I thought, this is why I became an oral surgeon, to help people. It’s changed my life.”

Seven years ago, Dr. Alberto helped lay the groundwork for the mission, which is funded by benefactors John and Carol Cornwell. Once it was established, Dr. Alberto’s dental students expressed interest in participating, and it is now offered as an externship that takes place each year during the spring break. Dr. Alberto is also exploring the possibility with Penn Dental Medicine of adding this as an externship site option for Penn Dental Medicine students.

“This kind of experience for dental students is invaluable,” she says. “They learn to triage, deal with challenging problems, they develop speed. When they return to school, they’re more skilled.”

Students are so moved by their experience that many, including two graduates who are returning with the mission this year, want to continue to serve the community. But for those on the Cheerful Heart Dental Mission, the rewards of helping those most in need are tempered by the abject poverty they see all around.

“There’s so much need and so few of us,” Dr. Alberto says. “For me and everyone who goes there, you get this conviction of your heart that you have to come back, you feel like you haven’t done enough and have to do more.”

SHARE YOUR SERVICE ACTIVITIES
Share news of your service/volunteers activities with the Penn Dental Medicine Journal at www.dental.upenn.edu/classnotes or alumnifeedback@dental.upenn.edu.

—By Debbie Goldberg
1910s

Ashley E. Howes, Sr. (D’17) created a fund in 1988 that continues to support faculty development in the Department of Orthodontics. Andrea Collins, Howe’s granddaughter, and her son, David, visited Penn Dental Medicine to get a tour of the school where their grandfather/great-grandfather studied.

LEFT: Dr. Ashley E. Howes, Sr. (D’17) with Dr. Robert Vanarsdall, Jr. (GD’72) at the presentation of Dr. Howe’s plaque. RIGHT: Andrea Collins and son, David, during their visit to Penn Dental Medicine this winter.

1920s

Clement Alpert (C’32, D’34) turned 103 on April 23 and still enjoys reminiscing about his days at Penn Dental Medicine. The Clement and Sandra Alpert Fund continues to support scholarships for second-year students. This year’s recipients are: Zachariah Cole (D’17), John Kracke (D’17), Parul Sangwan (D’17), and Jia Tian (D’17, GEN’16).

ABOVE: Clem Alpert (C’32, D’34) and Dr. Martin Levin (D’72, GD’74), Chair of Penn Dental Medicine’s Dean’s Council

1930s

Harry Galblum (C’42, D’43) is enjoying retirement from his multi-office orthodontic practice in metro Washington, D.C., by lunching with his R.O.M.E.O. (retired old men eating out) buddies weekly. Harry is a generous scholarship donor to Penn Dental Medicine.

ABOVE: Harry Galblum (C’42, D’43) with his daughter Amy Galblum.

1940s

Joseph B. Breitman (D’77), above, was awarded the private practice award for Eastern region 2 by the American College of Prosthodontists (ACP) during the 44th Annual Session of the American College of Prosthodontists in New Orleans on November 7, 2014.

P. Deborah Weisfuse (D’77) has served as Co-Chair of the Task Force on Technology Application for the New York State Dental Association since 2012, working to develop educational programming for members.

1950s

Claude Springer (D’54) has been quite busy during his retirement enjoying singing in the Great Neck Choral Society for 49 years, teaching driver safety for his local senior center, playing bridge, taking history courses, working out, and writing poetry and prose.

Walter W. Hashimoto (D’58) continues to enjoy practicing dentistry with his son Scott and his daughter Teri for the last 25 years and 15 years, respectively.

1960s

Anastassios Koussis (D’61), for the last 14 years, has been traveling back to Pennsylvania one week every month to continue treating his long-standing “family” of patients. In July 2015, he plans to officially retire and enjoy more time for tennis and travel.

1970s

Robert Vanarsdall, Jr. (GD’72) has been selected as a recipient of the 2015 Alumni Award of Merit by the School of Dental Medicine Alumni Society. The Award recognizes love for and loyalty to the School, excellence in the profession of dentistry, and community involvement. Dr. Vanarsdall will be honored at the Alumni Weekend Reunion Dinner, May 16, 2015.

Ronald M. Pross (D’74) of Tampa, Fla., was nominated by the Penn Dental Medicine Alumni Society to serve a three-year term as members-at-large of the Alumni Society Executive Committee, beginning July 1, 2015.

Charlene Jennings Fenster (DH’75) was re-nominated by the Penn Dental Medicine Alumni Society to serve a second three-year term as members-at-large of the Alumni Society Executive Committee, beginning July 1, 2015.

Louis E. Rossman (D’75, GD’77) is currently serving a three-year term as president of the American Association of Endodontics Foundation Board of Trustees. The Foundation supports the endodontic specialty through funding education and research. Rossman maintains a full-time endodontic practice in Philadelphia and is a Clinical Professor of Endodontics at Penn Dental Medicine.

Kenneth A. Fetter (C’72, D’76), alongside volunteers, recently opened a free dental clinic at the Frederick Douglas School in Chester, Pa. Volunteers have included Carol Falcone Fetter (DH’75), Ron Garinger (D’74, GD’78), David Leidy (D’79) and Dallas Pulliam (D’85).

1980s

Claude Springer (D’54) has been quite busy during his retirement enjoying singing in the Great Neck Choral Society for 49 years, teaching driver safety for his local senior center, playing bridge, taking history courses, working out, and writing poetry and prose.

Walter W. Hashimoto (D’58) continues to enjoy practicing dentistry with his son Scott and his daughter Teri for the last 25 years and 15 years, respectively.

1990s

Joseph B. Breitman (D’77), above, was awarded the private practice award for Eastern region 2 by the American College of Prosthodontists (ACP) during the 44th Annual Session of the American College of Prosthodontists in New Orleans on November 7, 2014.

P. Deborah Weisfuse (D’77) has served as Co-Chair of the Task Force on Technology Application for the New York State Dental Association since 2012, working to develop educational programming for members.

Dr. Saul Pressner (D’79) has been volunteering with the Dental Volunteers for Israel (DVI) for the last three years and plans to continue as long as possible. DVI is the largest free dental clinic in all of Israel, offering state-of-the-art treatment, thanks to volunteer dentists from all corners of the world. Dr. Pressner credits Dr. D. Walter Cohen (C’47, D’50) as his influence for volunteering.
Penn Dental Medicine Global Education Series:
IMPERIAL GRANDEUR OF BEIJING
— SEPTEMBER 6–13, 2015 —

Join fellow Penn alumni, friends and family in Beijing:

- Attend a gala event celebrating the opening of the Penn Wharton China Center along with a host of Penn faculty and alumni.

- Earn CE credits and learn about the future of care in the dental industry by attending the Craniofacial Stem Cell Therapy & Regeneration Symposium, featuring some of the most eminent researchers and leaders from around the world.

- Enjoy all the delights the Imperial City has to offer from the Forbidden City to the Great Wall and experience firsthand the vast changes going on in China today.

- Pre- and post-tour extensions are also available to customize your experience.

Call 888-333-2585 | 415-334-4505
or email info@china-advocates.com

1980s

Dr. Marc F. Lipkin (D’80, GD’81) was recently granted Diplomate status by the American Board of Oral Implantology/Implant Dentistry (ABOI/ID) after practicing dentistry for 35 years. This prestigious organization recognizes dentists for expertise in dental implantology, both surgically and restoratively. The conference of Diplomate status signifies that the practitioner conforms to the highest standard of care available, as judged by the board. Dr. Lipkin is one of 13 dentists in Pennsylvania who have achieved this prestigious designation and less than 500 worldwide.

James Hudson (D’82), third generation of Penn Dental Medicine graduates, unearthed his grandfather’s school scrap book filled with pictures and documents from when he was a student during the 1915 opening of the Thomas Evans Building.

Judith A. McFadden (D’82) was elected as Treasurer of the Philadelphia County Dental Society for 2015.

Brian Shuman (D’82, GD’83, GD’85) was awarded Vermont Dental Society’s Distinguished Service Award in recognition of his outstanding commitment to the dental profession and the oral health of Vermon ters. His 25 years as Chairman of Continuing Education, his co-chairing of the Special Olympics Special Smiles, and his Chairing the VTC Hygiene School program are just some examples of his outstanding commitment to the dental profession and the oral health of Vermon ters.

Frank Serio (D’80), founder and co-director of the Dominican Dental Mission Project, has been named the 2015 ADA Humanitarian Award recipient in recognition of his more than three decades of service (see story, page 36). Dr. Serio acknowledges his wife, Dr. Cheryl Serio, as integral to the success of the project. Dr. Serio will honored at the ADA Annual Meeting, November 5–8, 2015, in Washington, D.C.

Paul Feldman (D’83) was re-nominated by the Penn Dental Medicine Alumni Society to serve a second three-year term as members-at-large of the Alumni Society Executive Committee, beginning July 1, 2015.

Robert S. Gurman kin (D’84), above, took his 10th trip to Central America with the nonprofit group Medical, Eye and Dental International Care Organization (MEDICO) and helped set up temporary medical and dental clinics to see patients in remote areas. As Board President of MEDICO, Dr. Gurmankin has helped carry out the organization’s mission of providing comprehensive health care in Central America. Dr. Gurmankin is pictured with his wife Missy.

Eric Spieler (D’84) and his practice Oasis Dental LLC, were awarded the Angie’s List Super Service award for the second year in a row. The award recognizes an exemplary year of service provided to members of the local services marketplace and consumer review site in 2014.

Jeffrey D. Dorfmam (C81, D85) of The Center for Special Dentistry® in New York, N.Y., was one of 12 health professionals considered to be Centers of Influence (COI) by U.S. Navy Medicine. He was recently invited to tour the Naval Medical Center San Diego, the amphibious assault ship U.S.S. Boxer, and Marine Corps Base Camp Pendleton. The visit was organized to highlight the many career opportunities available for dentists, physicians, and nurses in the U.S. military.

John D. Beckwith (D’87) recently Achieved Fellowship Status in the International Congress of Oral Implantologists (ICOI), signifying his extensive efforts toward education, research, and clinical experience performing dental implant procedures. To be designated as a Fellow of the ICOI, active members are required to attain formal dental implant education and training, display proficiency in surgical and restorative protocols, and pass testing requirements.
**CLASSNOTES**

**1990s**

Olivia Sheridan (D’90, GD’92) has been selected as a recipient of the 2015 Alumni Award of Merit by the School of Dental Medicine Alumni Society. The Award recognizes love for and loyalty to the School, excellence in the profession of dentistry, and community involvement. Dr. Sheridan will be honored at the Alumni Weekend Reunion Dinner, May 16, 2015.

Brian Rinehart (GD’92), was elected as President of the Canadian Dental Regulatory Authorities Federation (CDRAF) in October 2014.

**2000s**

Dan Kubikian (D’01, GD’04, GD’05) of Haddonfield, N.J., was nominated by the Penn Dental Medicine Alumni Society to serve a three-year term as members-at-large of the Alumni Society Executive Committee, beginning July 1, 2015.

**2010s**

Jeff Li (D’12) was re-nominated by the Penn Dental Medicine Alumni Society to serve a second three-year term as members-at-large of the Alumni Society Executive Committee, beginning July 1, 2015.

Matt Sones (D’12) was re-nominated by the Penn Dental Medicine Alumni Society to serve a second three-year term as members-at-large of the Alumni Society Executive Committee, beginning July 1, 2015.

Amy Patel (D’15) and Fadi Raffoul (D’15) were nominated by the Penn Dental Medicine Alumni Society to serve as members-at-large of the Alumni Society Executive Committee in recognition of their service as the Executive Student Council President and Class President, respectively, and interest in continuing to engage young alumni.

---

**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 Medicine Journal.

We have made it easy for you to make a submission — simply go to www.dental.upenn.edu/classnotes where you can quickly send us your information — we welcome photos as well.

Or, you can send your submissions to:

Robert Schattner Center
Penn Dental Medicine
Office of Development and Alumni Relations
240 South 40th Street
Philadelphia, PA 19104–6030

**Questions?**

215-898-8951 (p)
alumnifeedback@dental.upenn.edu

---

**May We Write You a Check?**

Support the Future of Penn Dental Medicine with a Charitable Gift Annuity

---

**SAMPLE RATE CHART FOR A $10,000 GIFT ANNUITY ON A SINGLE LIFE**

<table>
<thead>
<tr>
<th>Annuity Rate</th>
<th>60</th>
<th>65</th>
<th>70</th>
<th>75</th>
<th>80</th>
<th>85</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.4%</td>
<td>$2,749</td>
<td>$3,363</td>
<td>$4,002</td>
<td>$4,503</td>
<td>$4,965</td>
<td>$5,622</td>
</tr>
<tr>
<td>4.7%</td>
<td>$3,470</td>
<td>$4,070</td>
<td>$4,680</td>
<td>$5,150</td>
<td>$5,580</td>
<td>$6,280</td>
</tr>
<tr>
<td>5.1%</td>
<td>$4,070</td>
<td>$4,680</td>
<td>$5,290</td>
<td>$5,760</td>
<td>$6,200</td>
<td>$6,900</td>
</tr>
<tr>
<td>5.8%</td>
<td>$4,503</td>
<td>$5,150</td>
<td>$5,760</td>
<td>$6,200</td>
<td>$6,900</td>
<td>$7,600</td>
</tr>
<tr>
<td>6.8%</td>
<td>$5,580</td>
<td>$6,200</td>
<td>$6,900</td>
<td>$7,600</td>
<td>$8,400</td>
<td>$9,200</td>
</tr>
<tr>
<td>7.8%</td>
<td>$6,800</td>
<td>$7,600</td>
<td>$8,400</td>
<td>$9,200</td>
<td>$10,000</td>
<td>$10,800</td>
</tr>
</tbody>
</table>

*Deduction will vary slightly with changes in the IRS Discount Rate. Assumed rate 2.2%. Note: Charitable Gift Annuities are not investments or insurance and are not regulated by the insurance department of any state. The examples provided are for illustration purposes only and are not intended as legal or tax advice.

For more information, including a personalized illustration of how a Charitable Gift Annuity can work for you, contact:

Lynn Ierardi, JD
Office of Gift Planning
800.223.8236 / 215.898.6171
lierardi@dev.upenn.edu
www.giving.upenn.edu/giftplanning

---

**NOT YET 60?** Consider a Penn Deferred Gift Annuity. You choose the date to begin receiving your payments.

---

42 www.dental.upenn.edu
IN MEMORIAM

REMEMBERING MEMBERS OF THE
PENN DENTAL MEDICINE COMMUNITY

Virginia Pechin Keen (DH’43)
Greenfield, MA; February 2, 2014

Howard K. Goldberger (D’44)
Springfield, VA; November 30, 2014

Joseph W. Mudge (D’45)
Reddick, FL; February 13, 2013

Jean Kyte Adamson (DH’45)
Williamsburg, VA; August 13, 2014

Rita N. Ruzansky (DH’45)
Canton Center, CT; November 2, 2014

Frederick Kapinos (D’46)
Chicopee, MA; December 17, 2013

Virginia F. Fessenden (DH’46)
Englewood, FL; December 19, 2013

J. D. Subtelny (D’47)
Rochester, NY; September 17, 2014

Charles L. Storer (D’48)
East Moriches, NY; August 20, 2014

David H. Newton (D’50)
Lawrenceville, NJ; November 6, 2013

Edwin C. Van Valey (D’50)
Red Hook, NY; March 14, 2014

James F. Flood (D’50)
Yardley, PA; October 3, 2014

Charles L. Pratt (D’51)
Lititz, PA; September 14, 2014

Edgar J. Schmidt (D’51)
Bend, OR; January 15, 2015

Herbert C. Krouk (D’39)
Maplewood, NJ; February 28, 2015

Elmer A. Kestler (D’52)
Flushing, NY; April 19, 2013

Thomas B. Cameron, Jr. (D’52)
Longview, WA; October 3, 2014

Anthony J. Russo (D’52)
Milford, CT; November 8, 2014

George C. Pearson (D’52)
Naples, FL; January 23, 2015

Douglas M. Dunbar (D’53)
North Andover, MA; January 5, 2014

Glen E. Foster (D’53)
Lititz, PA; May 8, 2014

Howard D. Eckhart (D’53)
Lancaster, PA; December 24, 2014

Albert A. Galullo (D’54)
Norristown, PA; February 16, 2014

Marshall D. Welch, Jr. (D’54, GD’58)
Williamsport, PA; August 27, 2014

Raymond L. Bitzer, Jr. (D’54)
Glen Rock, NJ; January 14, 2015

Warren E. Dodson (D’55)
West Liberty, OH; July 3, 2014

Melvin Lerner (D’56)
Torrance, CA; October 3, 2014

Eugene J. Barrack (D’56)
Township of Washington, NJ; October 7, 2014

Charles V. Adrian (D’56)
Shelburne, VT; December 13, 2014

Lawrence E. Krutick (D’57)
Roslyn, NY; July 13, 2013

Erwin A. Weiss (D’57)
Lake Worth, FL; August 16, 2014

Brooke D. Fulford (D’57)
Allentown, PA; February 9, 2015

James B. Edwards (GD’58)
Mount Pleasant, SC; December 26, 2014

Paul D. Jacobs (D’59)
New York, NY; July 29, 2013

Philip W. Kitchin (D’59)
St. Petersburg, FL; June 23, 2014

John D. Thayer (D’59)
Rutland, MA; June 28, 2014

Peter P. Ramko (D’59)
Salt Springs, FL; October 12, 2014

Nicholas G. Pituras (D’59)
Tenaflly, NJ; January 8, 2015

Toof A. Boone, Jr. (GD’63)
Macon, GA; March 24, 2014

Thomas E. Sheehy, Jr. (GD’63)
Stamford, CT; October 25, 2014

Edward G. Coopersmith (GD’64)
Bridgewater, NJ; October 10, 2014

Harold S. Bressler (D’65)
Monroe Township, NJ; November 16, 2013

Manuel H. Marks (GD’65)
Tucson, AZ; December 14, 2013

Robert S. Morgenstein (D’65)
Chevy Chase, MD; June 16, 2014

Ronald M. Delmonico (C’64, D’66)
State College, PA; November 2, 2014

John B. Allwein (GD’67)
Largo, FL; April 13, 2013

Edward P. Gada (D’72)
East Lyme, CT; August 11, 2013

Edmundo B. Nerry (GD’73)
Inverness, FL; June 10, 2014

William C. Rabe (D’73)
New London, NC; February 6, 2015

Charlene Zaslavsky Hirsch (CW’71, D’77, GR’79)
Philadelphia, PA; August 2, 2014

Roger P. Kenney (GD’88)
Pittsburgh, PA; February 21, 2015

Penn Dental Medicine Journal | Spring 2015 43
UPCOMING EVENTS & PROGRAMS

2015 CALENDAR

MAY

MAY 12, 2015
Senior Farewell
Hyatt at the Bellevue

MAY 14, 2015
Student Research Day
Penn Dental Medicine

MAY 15–17, 2015
Alumni Weekend 2015
Penn Dental Medicine

MAY 18, 2015
Commencement 2015
Irvine Auditorium

MAY 29, 2015
PDM Research Retreat
Hill Pavilion, Penn Vet

JUNE

JUNE 1, 2015
Introduction to Dental Medicine
Coursera Course
www.coursera.org/course/dentmedpenn

JUNE 11–13, 2015
CDE: The Penn Esthetics Symposium
Annenberg Center for the Performing Arts

JUNE 13, 2015
Morton Amsterdam Program & Celebration of Life
Annenberg Center for the Performing Arts

JUNE 28–JULY 3, 2015
CDE: Penn Periodontal Conference 2015
Annenberg Center for the Performing Arts

JULY

JULY 18–NOVEMBER 8, 2015
Thomas Evans Collection Exhibition
Arthur Ross Gallery

AUGUST

AUGUST 17, 2015
White Coat Ceremony: Class of 2019
Annenberg Center for the Performing Arts

SEPTEMBER

SEPTEMBER 6–13, 2015
CDE/Tour: Global Education Series: Imperial Grandeur of Beijing
Beijing, China

SEPTEMBER 28–OCTOBER 3, 2015
American Association of Oral & Maxillofacial Surgeons Annual Meeting: Penn Dental Alumni Reception
Washington, DC

OCTOBER

OCTOBER 9, 2015
Department of Orthodontics 62nd Annual Alumni Meeting
Union League of Philadelphia

OCTOBER 21, 2015
5th Annual Penn Dental Alumni/Student Networking Event
Union League of Philadelphia

OCTOBER 17, 2015
Penn Dental Medicine

NOVEMBER

NOVEMBER 4, 2015
Evans Building Centennial Renaissance Project Ceremonial “Ground/Wall Breaking”
Penn Dental Medicine

NOVEMBER 5–7, 2015
CDE: Penn Endo Global Symposia
Mexico City, Mexico

NOVEMBER 5–8, 2015
American Dental Association: Penn Dental Alumni Reception
Washington, DC

NOVEMBER 14, 2015
CDE: TMJ A to Z: Initial Management Strategies, Approaches and End-Stage Disease
University of Pennsylvania

NOVEMBER 14–17, 2015
American Academy of Periodontology Annual Meeting: Penn Dental Alumni Reception
Orlando, FL

NOVEMBER 30, 2015
Greater New York Dental Conference: Penn Dental Alumni Reception
The Penn Club, New York, NY

Young Alumni After Party
New York, NY

Visit www.dental.upenn.edu/events or call 215-898-8951 for information on alumni events.

Visit www.dental.upenn.edu/cde or call 215-573-6841 for information on continuing dental education programs.
The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class status in the administration of its admissions, financial aid, educational or athletic programs, or other University-administered programs or in its employment practices. Questions or complaints regarding this policy should be directed to the Executive Director of the Office of Affirmative Action and Equal Opportunity Programs, Sansom Place East, 3600 Chestnut Street, Suite 228, Philadelphia, PA 19104-6106; or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).
Penn Dental Medicine Global Education Series:
IMPERIAL GRANDEUR OF BEIJING
— SEPTEMBER 6-13, 2015 —

Join fellow Penn alumni, friends and family in Beijing:

- Attend a gala event celebrating the opening of the Penn Wharton China Center along with a host of Penn faculty and alumni.

- Earn CE credits and learn about the future of care in the dental industry by attending the Craniofacial Stem Cell Therapy & Regeneration Symposium, featuring some of the most eminent researchers and leaders from around the world.

- Enjoy all the delights the Imperial City has to offer from the Forbidden City to the Great Wall and experience firsthand the vast changes going on in China today.

- Pre- and post-tour extensions are also available to customize your experience.

Call 888-333-2585 | 415-334-4505
or email info@china-advocates.com

Connect with us online!  www.dental.upenn.edu