PENN DENTAL MEDICINE JOURNAL | SPRING 2016

PENN ORTHO 1916-2016
CELEBRATING 100 YEARS OF PENN DENTAL ORTHODONTICS
2016 brings us some key milestones as Penn Dental Medicine marks two special anniversaries – one for Orthodontics and the other for the Program for Advanced Standing Students (PASS).

This year is the centennial anniversary of our Department of Orthodontics (see story page 8), celebrating 100 years of advancing the study and practice of orthodontics. Penn orthodontics graduates have made a tremendous impact within the specialty over the past century. In 1856, Pennsylvania College of Dental Surgery began, and in 1878, their dean and most of the students and faculty left to spawn Penn Dental Medicine; in that same year, Edward Angle graduated from Pennsylvania College of Dental Surgery, quickly followed by W.D. Miller, who graduated from our school in 1879. And today, under the leadership of Dr. Chun-Hsi Chung, the future of Penn orthodontics remains very bright – our highly competitive residency program continues to attract top students and our tremendously dedicated alumni continue to support our mission to build on the historic strength of the Department going forward. All of our orthodontics alumni, faculty, staff, and students can take great pride in the legacy of leadership they have helped to create through a commitment to excellence in serving their patients and advancing the specialty.

The other key anniversary we are marking is for our PASS program (see story page 18). The newest PASS class that joined Penn Dental Medicine in March is the 30th class. The 30 years of the program will have graduated 888 foreign-trained dentists from 83 countries around the globe, assimilating them to practice in the U.S. Our PASS program brings very talented individuals with a global perspective to Penn Dental Medicine, creating an integrated multicultural environment that is a great asset to the School and to the PASS students themselves.

In other news, our teaching clinics are benefiting from the years of clinical experience of another PASS graduate, Dr. Najeed Saleh (D’94), who commenced his new role as Associate Dean for Clinical Affairs (see story page 34); on the facilities front, work is well underway on the transformation of the historic Evans Building with the new library space on the second and third levels open since March (see story page 2); and in the area of research and scholarship, our standing faculty published nearly 150 high impact articles in 2015 (see highlights pages 14–17).

And most importantly, I want to congratulate the Class of 2016 on achieving their degrees and moving on to the next stage of their careers. You are joining a highly respected group of clinicians, educators, and researchers as Penn Dental Medicine alumni, and I wish you all the personal and professional rewards the field of dental medicine has to offer.

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

Penn Orthodontics
1916–2016
Advancing the study and practice of orthodontics for 100 years

PASS at 30
Providing foreign-trained dentists a path to practice

Leading Clinical Affairs
Dr. Najeed Saleh (D’94) brings years of practice and research experience to the clinical table

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ON THE COVER: The eight Chairs of the Dept. of Orthodontics over its 100-year history, in order top to bottom and left to right: Dr. John Mershon, Dr. A. Leroy Johnson, Dr. Frederick R. Strathers, Dr. Paul V. Reid, Dr. James Ackerman (D’60), Dr. Ronald Johnson (when it was a combined Ortho/Pedo Dept.), Dr. Robert Vanarsdall (GD’72, GD’73), and Dr. Chun Hsi-Chung (D’86, GD’92). Orthodontic clinical, digital model, 3D CBCT, and other radiographic images from the Penn Dental Medicine Dept. of Orthodontics.
Evans Building Transformation Well Underway

The Penn Dental Medicine community and Penn President Amy Gutmann formally marked the start of the School’s Evans Building Centennial Renaissance project with a ceremonial groundbreaking in November, and since then, great progress has been made on the transformation of this historic structure. This $34 million renovation project will impact all four levels of the Evans Building and is on an aggressive construction schedule for completion by January 2017. The Evans Building, which turned 100 years old in 2015, remains the hub of Penn Dental Medicine clinical instruction and patient care.

“Our mission is to update this historic building so that it will support the highest-quality dental education for which Penn Dental has always been known and respected,” says Dean Denis Kinane.

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— DEAN DENIS KINANE

By mid-March, the reimagined library that now occupies the second and third floors of the Evans Building was complete (with the exception of the large overlook windows on the third level that will be installed in the next few months). On the second floor, the library’s main reading room is back where the library originally was located when the building opened in 1915 and features the grand, original, two-story window facing Spruce Street. Art work from the Thomas Evans Collection is also on display in the reading room. The library space on the third floor includes large and small group study rooms and additional reading areas.

Elements on both the first floor and lower concourse of the Evans Building will also be complete in time for the start of the 2016-2017 academic year in late August. In April, work began on the Edward & Shirley Shils Clinic — a new predoctoral teaching clinic situated in the southwest section of the first floor. Half of this 58-chair facility will be operational in August. Also scheduled for completion by late August are key instructional areas on the lower concourse — the new Preclinical Lab and CE Training Center, the Measey Haptic Technology Center at Penn Dental Medicine, and new seminar rooms.

The remaining work within the Evans Building Centennial Renaissance project, which includes the Office of Academic Affairs & Student Life, a student lounge, and an electronic classroom on the lower concourse; the remainder of the Shils Clinic and the Dean’s Administrative Suite on the first floor; and administrative offices on the third floor, is on track for completion by January 2017.

Looking ahead, plans are already underway for the next major building projects that will be made possible through the $10 million gift this past fall from alumnus Dr. Robert I. Schattner (D’48). His gift will renovate one of the School’s most important educational and clinical care spaces — the Evans Building’s Main Clinic (to be named the Robert I. Schattner Clinic) and create a dramatic new meeting and reception pavilion (to be named the Schattner Pavilion) as an extension of the School’s Robert Schattner Center. The firm of Ewing Cole has been selected as the project architect and design is underway.

ABOVE: Penn President Amy Gutmann and the Penn Dental Medicine Board of Overseers took part in a ceremonial groundbreaking for the Evans Building Centennial Renaissance project in the lower concourse of the Evans Building in November. Much of this lower concourse is scheduled for completion by August.
Dr. Robert Ricciardi Receives Penn’s Distinguished Teaching Award

Dr. Robert Ricciardi, Professor and Chair of the Department of Microbiology, has been recognized for his excellence in teaching as a 2016 recipient of the University of Pennsylvania’s Christian R. and Mary F. Lindback Foundation Awards for Distinguished Teaching. Penn presents eight Lindback awards each year, divided evenly between health-related disciplines and all other departments and divisions of the University. Award winners are determined by nominations and recommendations made by faculty and students.

A complementary project being done in conjunction with the Evans Building Centennial Renaissance project is the William W. M. Cheung Auditorium — a renovation of the former B-60 on the lower concourse of the Evans Building. Enhancements to the auditorium — one of the most heavily-used academic spaces in the School — will include improved lighting, new seating, digital connectivity, and improved aesthetics throughout. It is scheduled for completion with the rest of the lower concourse by January 2017.

Dr. William W. M. Cheung (D’81, GD’82), Chair of Penn Dental Medicine’s Board of Overseers, made a leadership gift to help fund this project, and the Take a Seat Campaign was created to secure the additional resources needed to complete these crucial updates.

RESERVE YOUR SEATS TODAY

Alumni and friends can “name” a seat in the new auditorium for a tax-deductible gift of $1,000. All donors will be recognized through signage in the transformed facility. For more information, visit www.dental.upenn.edu/takeaseat or contact Sarah Burton, Director of Alumni Relations & Annual Giving, sburton@upenn.edu, (215) 898-3542.

Dr. Ricciardi has been part of the School’s standing faculty since 1992, joining Penn Dental Medicine as Associate Professor and promoted to Full Professor within the Department of Microbiology in 1996. Since 2012, he has held the leadership post of Chair of the Department of Microbiology. Currently, Dr. Ricciardi is serving as Chair of the Committee for Student Advancement and as Director for the Infectious Disease core curriculum for Graduate Dental Education. He has also served as Microbiology Director for the Division of Advanced Dental Education (DADE) for several years.

Over the years, Dr. Ricciardi has also served as Chair of the University Graduate Program in Microbiology, Virology and Parasitology as well as the University Biomedical Panel. Dr. Ricciardi has a long-time affiliation with the University’s basic science departments. He has had secondary appointments, been course director and taught and advised in different departments and graduate groups in the University including Genetics, Biochemistry, Biology, Pathology, and Wharton. Dr. Ricciardi has been a Ph.D. Thesis Advisor to 16 graduate students.

Dr. Ricciardi’s scientific career began with the discovery of a gene mapping technology while a postdoctoral Fellow at Harvard Medical School. For many years at the University of Pennsylvania, his laboratory has focused on mechanisms that control gene expression, viral oncogenes, tumorigenesis, and immune escape. In particular, his studies have elucidated a major way by which the master regulator of the immune system (NF-kappaB) is controlled. In the last few years, Dr. Ricciardi’s laboratory has invented a new technology for developing drugs to treat viral diseases, including smallpox, which remains a bioterror threat; molluscum contagiosum, which is a skin disease that largely affects children; and herpes ocular heratitis, which can lead to loss of vision and blindness. To create a channel that can drive these antiviral drug discoveries in providing unmet medical needs, Dr. Ricciardi has founded Viraze, a Penn Center for Innovation biotechnology startup company.

“With Dr. Ricciardi’s award, comes recognition that he not only excels at research, entrepreneurship, and service, but that his teaching is in the top tier as well,” says Dean Denis Kinane. “We congratulate another excellent Penn Dental Medicine teaching success.”

The Lindback Awards were established in 1961 with the help of the Christian R. and Mary F. Lindback Foundation. This year’s recipients were recognized at a University-wide event held on April 19, 2015.
ONCAMPUS

Calling all Friends of the Thomas W. Evans Collection

Last fall, more than 4,000 people visited “Courtly Treasures: The Collection of Thomas W. Evans, Surgeon Dentist to Napoleon III” at Penn’s Arthur Ross Gallery. The exhibit — one of the gallery’s most popular ever — was the culmination of more than five years of work on the part of Penn Dental Medicine and the University Curator’s staff to locate, conserve and restore more than 130 paintings, sculptures, jewelry, photos, and decorative arts from the collection of Dr. Evans, as bequeathed to the dental school. The show sparked renewed interest in the fate of the Evans Museum, which had occupied the southeast, first floor section of the Evans Building until the late 1960s. A focal point of the Museum was the historic Evans carriage, which is now on permanent display in the School’s Robert Schattner Center lobby.

The Friends of the Thomas W. Evans Collection has been formed to ensure the ongoing preservation and display of the collection as Dr. Evans directed in his will. Membership in the Friends group is open to all Penn Dental Medicine alumni, as well as the general public. An advisory board, led by Dr. Peter Quinn (D’74, GD’78), Schoenleber Professor of Oral & Maxillofacial Surgery, and Dr. Gary Cohen, Professor, Department of Microbiology, will both steward the collection as well as assist in establishing an endowment to ensure it is maintained in perpetuity. Donors to the Friends group will receive collection updates and special invitations to collection related events.

Much of the art displayed at the Arthur Ross Gallery will be returned to the School over the next year to be incorporated into the public spaces of the Evans Building and Schattner Center, including the new Library, the Dean’s suite, and the administrative offices. The collection will be part of the fabric of daily life at the School, available to be enjoyed by all.

Support of the Friends at all levels is welcome, with donations directed to ongoing conservation of the collection. To become a Friend, visit www.dental.upenn.edu/give or send your tax-deductible contribution (checks payable to Trustees of the University of Pennsylvania) to: Office of Development & Alumni Relations, Robert Schattner Center, Penn Dental Medicine, 240 S. 40th Street, Philadelphia, PA 19104, Attn: Friends.

By the Numbers: Community Service

Through the Division of Community Oral Health’s varied outreach and service-learning programs, Penn Dental Medicine students provide much-needed oral health services to the community, while broadening their understanding of public health issues. These academically based service-learning programs provide students and faculty with the framework to complete community-based activities as an essential component of academic course work. Here is a look by the numbers at the impact of these community oral health activities over the past year.

TOTAL SERVED

16+K overall service hours by students in FY15
65 community sites were visited
18K individuals served

PENN SMILES

Providing oral health education in classrooms and neighborhood sites and dental treatment onboard the PennSmiles mobile dental clinic van.

950 miles travelled in the PennSmiles van in FY15
190 PennSmiles visits to 24 schools/sites

COMMUNITY HONORS

Students can pursue community health honors during their second, third, or fourth years, planning and carrying out an in-depth community health experience of at least 120 hours over a one-year period.

76 community honors students in FY15
25 honors projects completed
9K total hours spent on community honors projects
AADR Travel Awards Take Student Research to International Stage

Through the School’s AADR Travel Awards, Penn Dental Medicine students and junior researchers took their research to the international stage at the AADR/CADR Annual Meeting & Exhibition, March 16–19, 2016 in Los Angeles. This was the second year that the Penn Dental AADR Travel Awards supported student participation in this annual research event.

The AADR Travel Award program was launched by Penn Dental Medicine in 2014 to support and advance student/junior research, providing funds toward their travel to the annual AADR meeting where awardees have the opportunity to make an oral or poster presentation of their work at the premier dental research conference.

“Presenting at AADR is a great opportunity to showcase their research findings, share ideas and network with other colleagues from different academic institutions. It is an important experience for their academic growth,” says Dr. Hyun (Michel) Koo, Professor, Department of Orthodontics and Divisions of Pediatric Dentistry and Community Oral Health and Chair, AADR Travel Award Committee. “The Travel Awards also enable recipients to interact with researchers at all levels from other institutions, while spotlighting the School’s robust research activities.” The AADR Travel Awards are funded through the School’s Research Incentive Fund (RIF) Committee.

Those AADR Travel Award recipients and the projects they presented at the AADR/CADR Meeting in March included the following predoctoral students:

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Project Title</th>
<th>Preceptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catherine Campbell (D’17)</td>
<td>Interaction of IGF-1 Mediated Masseter Muscle and Craniofacial Bone Growth</td>
<td>Dr. Elisabeth Barton, former Associate Professor, Dept. of Anatomy &amp; Cell Biology</td>
</tr>
<tr>
<td>Philip Chang (D’17)</td>
<td>KSHV RTA Degrades Anti-viral TRIM Family Proteins</td>
<td>Dr. Yan Yuan, Professor, Dept. of Microbiology</td>
</tr>
<tr>
<td>Kristine Fu (D’17)</td>
<td>Role of GRKs on FcεRI Signaling in Mast Cells</td>
<td>Dr. Hydar Ali, Professor, Dept. of Pathology</td>
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<tr>
<td>Kyung Jin Lee (D’17)</td>
<td>Investigating Molecular Mechanism in TNFα-induced Anti-inhibition on Mesenchymal Stem Cells</td>
<td>Dr. Dana Graves, Professor, Dept. of Periodontics</td>
</tr>
<tr>
<td>Yoojin Rhee (C’17)</td>
<td>The Effect of Depression on Expression of the Cell Cycle Protein E2F1 in the Central Nervous System</td>
<td>Dr. Kelly Jordan-Sciutto, Professor, Dept. of Pathology</td>
</tr>
<tr>
<td>Riddhi Desai (D’16)</td>
<td>Defining a Role Actin and Myosin during Drosophila Salivary Gland Secretion</td>
<td>Dr. Kelly Ten Hagen, NIH</td>
</tr>
<tr>
<td>Je Dong Ryu (D’17)</td>
<td>FOXO1 Regulates Cartilage Resorption by Mediating RANKL Expression in Chondrocytes in Diabetic Mice</td>
<td>Dr. Dana Graves, Professor, Dept. of Periodontics</td>
</tr>
<tr>
<td>Parul Sangwan (D’17)</td>
<td>The Role of RIG-I and YY1 in Up-Regulating MiR-190 in Type I Latent EBV Infected Cells</td>
<td>Dr. Yan Yuan, Professor, Dept. of Pathology</td>
</tr>
<tr>
<td>Nishat Shahabuddin (D’17)</td>
<td>Autophagy in response to Aggregatibacter actinomycetemcomitans and LtxA</td>
<td>Dr. Edward Lally, Professor, Dept. of Pathology</td>
</tr>
<tr>
<td>Boshiz Zhang (D’17)</td>
<td>The Effects of MMP-13 on Satellite Cell Migration and Myotube Formation in Muscle Regeneration</td>
<td>Dr. Elisabeth Barton, former Associate Professor, Dept. of Anatomy &amp; Cell Biology</td>
</tr>
</tbody>
</table>

Those junior researchers who presented at the meeting as an AADR Travel Award recipient included: Yuan Liu, research fellow in the lab of Dr. Koo, Dept. of Orthodontics: Biofilm Elimination and Caries Prevention Using Biomimetic Nanoparticles

The 2016 AADR Travel Award grants will be presented at Penn Dental Medicine’s Research Day 2016 on May 12; those recipients will attend the 2017 IADR/AADR/CADR Annual meeting in San Francisco.
A Ton of Opportunities

For Katherine France, D’16, an honors student in medically complex care and community oral health, Penn Dental Medicine offered the widest choice of chances to learn and grow, including respected dual-degree and externship programs.

As an undergraduate at Carleton College in Minnesota, Katherine France was fairly certain that dentistry was the right career choice for her, but she wanted to be sure. So she spent her college breaks shadowing not one dentist but three, in specialties ranging from general dentistry to orthodontics to pediatrics, near her home in Roanoke, Virginia and even while on a trip to the U.S. Virgin Islands. “I got more confident about dentistry each time,” she remembers. “All of the specialties seemed so exciting that I realized dentistry was a field with a lot of good options.”

That same level of diligence and intellectual curiosity has led Katherine to achieve and excel at Penn Dental Medicine. When she graduates this spring, the honors student in medically complex care and community oral health will not only earn her DMD and a dual degree in bioethics, she will also have a world-class international externship under her belt.

“Penn opened up a ton of opportunities for me. It has the strengths of other dental schools combined: all of the different specialty programs and clinics in one building, a great honors program, interdisciplinary research, dual-degree programs...everything.”

— KATHERINE FRANCE (D’16)

Katherine arrived on campus with an open mind about which specialty to pursue. But the strength and opportunities of the oral medicine program quickly drew her attention. So did the unique and fascinating subject matter and the skill sets of the program’s faculty members.

“In oral medicine, deep intellect and reasoning are applied to every single patient,” she explains. “The specificity of knowledge and the fine distinctions that have to be made are mind-blowing. I fell in love with what they were doing intellectually and in practice.”

Katherine’s passion and aptitude led to her becoming an honors student in medically complex care, one aspect of oral medicine, this year. Penn Dental Medicine’s competitive honors program is designed to cultivate leadership in a select group of exceptional students, and enables them to develop advanced skills in five honors areas — research, clinical dentistry, community oral health, medically complex care, and radiological sciences. (Last year, Katherine completed the honors program in community oral health.)

The honors program in medically complex care provides students with hands-on experience in delivering comprehensive patient care — emergency care, treatment planning, general dentistry, specialty care, and maintenance programs — for medically complex patients with conditions like immunodeficiencies, hemophilia, transplants, and complex cardiac issues not normally seen in the School’s general restorative clinics. For Katherine, the program offered the opportunity she craved — to immerse herself in the specialty she found so intriguing.

But she didn’t stop there — she’s also simultaneously earning a Master of Bioethics through Penn Dental Medicine’s dual-degree program. The program in bioethics in Penn’s Perelman School of Medicine — one of eight dual-degree options — has allowed her to supplement her dentistry degree with coursework in bioethics. She has found the courses to be full of concepts and viewpoints that have enhanced her dental education.

As an example, Katherine cites a course she took in narrative ethics: “The class covered how stories are told in medicine, and what past experience can contribute to diagnosis and treatment,” she explains. “Talking about and working through the layers of verbal history that come through in a patient’s personal narrative can really improve their outcome.”
She looks forward to using her bioethics background in the future, perhaps in consulting with policy makers to bring about positive changes in dental education and practice.

Penn Dental Medicine’s extensive externship program was another of the possibilities that had originally excited her about the School, and when she heard about a two-week oral medicine externship at the University of Gothenburg in Sweden last winter, she applied and was thrilled to be accepted.

“The United States and Sweden are considered world leaders in oral medicine, and the programs at Penn and the University of Gothenburg developed around the same time, with faculty from both schools working together as pioneers in the field,” she says. The clinic she visited is recognized around the world as a model for practices in oral medicine, so she was honored to have a chance to study there, observing the diagnosis and treatment of oral lesions, many related to cancers.

In doing so, she gained an even deeper appreciation for the role of oral medicine in the quality of patient’s lives. “By treating chronic pain and helping people regain motion in their jaws, we can make such a huge difference,” she says. The externship also helped her recognize the challenges that come with diagnosing and treating patients with terminal illnesses, something dentists in other specialties rarely do. While intense, the experience served to motivate her further and validate her decision to pursue a career in oral medicine; she will enter Penn Dental Medicine’s oral medicine residency program next year.

For her leadership and engagement on many levels, Katherine was among eight graduate students University-wide recognized with the 2016 Dr. Andy Binns Impact Award for Outstanding Service to Graduate and Professional Student Life. With so many academic and experiential components to her dental education, what will Katherine’s future career look like? A lot like the careers of many of her professors at Penn Dental Medicine, she imagines.

“The faculty here do so many things — practicing in clinics, teaching in clinical settings and classrooms, research — and they do them all so well. It’s inspiring,” she says.

“I wouldn’t want to give up any of the aspects of dentistry. Luckily, I’m surrounded by so many examples of people who have successfully struck the perfect balance.”

Crossing Disciplines & Borders

Penn Dental Medicine students like Katherine France (D’16), this issue’s featured student profile (see adjoining page), are crossing disciplines and borders through the School’s dual-degree and international externship programs. “These opportunities within our DMD program enable students’ individual interests and strengths to flourish and grow,” says Dr. Uri Hangorsky, Associate Dean for Academic Affairs and Student Life. Here is a snapshot of student involvement in both of these programs this academic year.

Dual Degrees

With a close association between Penn Dental Medicine and the other professional schools, departments, and divisions of Penn, the School, to date, has established eight dual-degree opportunities — a Master of Bioethics, a Master of Public Health, and a Master of Science in Translational Research with Penn’s Perelman School of Medicine; a Master of Business Administration with Wharton; a Master of Science in Bioengineering with the School of Engineering and Applied Sciences; a Master of Science in Higher Education with the Graduate School of Education; and a Juris Doctor (JD) Degree and Master in Law Degree with the School of Law.

Currently, there are 19 Penn Dental Medicine students pursuing dual-degrees in the following programs:

<table>
<thead>
<tr>
<th>Program</th>
<th>Number</th>
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<tbody>
<tr>
<td>Master of Bioethics</td>
<td>6</td>
</tr>
<tr>
<td>Master of Public Health</td>
<td>6</td>
</tr>
<tr>
<td>Master of Science in Education</td>
<td>3</td>
</tr>
<tr>
<td>Master of Science in Bioengineering</td>
<td>3</td>
</tr>
<tr>
<td>Master of Science in Translational Research</td>
<td>1</td>
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</tbody>
</table>

At press time, 10 first-year students had also been nominated to the respective schools for acceptance into the dual-degree programs, including for the first time, two students for the Master of Law Degree, the newest dual-degree program.

International Externships

While helping to fulfill students’ hospital externship requirements in their fourth year, international externships are also expanding students’ perspective of dental education and oral health care delivery in different cultures. By the end of this academic year, 32 students in the Class of 2016 will have participated in international externships at the following sites around the world:

- Princess Marina Hospital (Gaborone) (1) Botswana
- Peking University School and Hospital of Stomatology (1) China
- Universidad El Bosque Facultad de Odontologia (4) Colombia
- GKT Dental Institute Guy’s Hospital University of London (4) England
- University of Paris V/Faculty of Dentistry (1) France
- Seoul National University/College of Dentistry (10) Korea
- University of Gothenburg (1) Sweden
- Shan Medical University Hospital (2) Taiwan
- Kaoshiung Medical University (2) Taiwan
- Chulalongkorn University/Faculty of Dentistry (6) Thailand
PENN DENTAL MEDICINE’S Department of Orthodontics marks its centennial anniversary this year, celebrating 100 years of advancing the study and practice of orthodontics. Formally established in 1916 under the leadership of Dr. John Mershon, over the past century, the Department’s programs have developed an international reputation for excellence in the field, both through a long line of deeply committed and esteemed faculty and the widespread achievements of its many accomplished students and alumni.

“Penn orthodontics has always been a leader in clinical excellence as a result of its strong faculty and excellent students, and we must maintain that for the future,” says Dr. Chun-Hsi Chung (D’86, GD’92), the Chauncey M.F. Egel Endowed Chair of Orthodontics, who joined the faculty in 1992 and has been leading the Department since 2011 (interim 2011–2012). In this special anniversary year, he notes that it is a time to not only reflect on the Department’s rich history, but also build on those strengths going forward. “I want to continue to push our Department nationally and internationally to the highest level it can be.”
SOME HISTORICAL PERSPECTIVE

Of all the dental specialties, orthodontics was among the earliest to emerge and Penn Dental Medicine has historic ties to its earliest days. It was in 1899 that Dr. Edward H. Angle (1855–1930), generally regarded as the “father of modern orthodontics,” classified the various forms of malocclusion and is credited with making orthodontics a dental specialty, establishing the first school of orthodontics in St. Louis in 1900. But his training as a dentist began in Philadelphia — at the school that would eventually merge with the University of Pennsylvania School of Dental Medicine; Angle also greatly influenced the first Chairman of Penn Dental Medicine’s Orthodontics Department, Dr. John Mershon, who studied under him. Penn Dental Medicine Dean Denis Kinane recalls the historic connection:

“As we celebrate the 100-year anniversary of orthodontics at Penn we should take a wider perspective of our history. In 1856, the Pennsylvania College of Dental Surgery began, and in 1878, their dean and most of the students and faculty left to spawn Penn’s dental school, completing the migration in 1909,” notes Dean Kinane. “That same year, 1878, Edward Angle graduated [from Pennsylvania College of Dental Surgery], and a year later W.D. Miller graduated from our school. Orthodontics in Pennsylvania continues to go from strength to strength, and today, Dr. Chung epitomizes this effort as he masterfully ensures a wonderful quality of both clinical and didactic education in an exciting backdrop of research innovation with notable DScD [Doctor of Science in Dentistry] successes among our students.”

“Orthodontics is part of a total approach to dental health, it’s not just for cosmetic value,” says Dr. Vanarsdall, who earned both his orthodontic and periodontic certificates at Penn Dental Medicine. “I came here to learn to save teeth as a student, and we’ve continued to instill that view in our program as faculty. We talk about periodontal issues in our orthodontic seminars — they don’t do that everywhere, but it’s been a hallmark of our program for years.” Dr. Chung adds that the early and strong incorporation of periodontics into orthodontics at Penn also made the School one of the early leaders in adult orthodontics.

For current resident Dr. Cherissa Chong (C’09, W’09, D’12, GD’16), it was that interdisciplinary approach to patient care that attracted her to the Penn program. “The synergy between periodontics and orthodontics appealed to me in dental school,” says Dr. Chong, who will complete the dual Orthodontics/Periodontics Program this year along with a Master of Science in Oral Biology (MSOB). “Understanding the role each specialty plays in providing a comprehensive treatment for the patient is critical. One of the strengths of this program is providing a bridge between both specialties. It is truly a privilege to be able to help patients on a daily basis and create healthy and beautiful smiles that will last a lifetime.”

Legacy of Leadership

The American Board of Orthodontics (ABO) was founded in 1929 as the first specialty board in dentistry; when Dr. Chun-Hsi Chung (D’86, GD’92), Chair, becomes president in 2017, that will make six Penn orthodontics alumni to have served in this leadership post.

<table>
<thead>
<tr>
<th>ABO President</th>
<th>Year</th>
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<tbody>
<tr>
<td>Chun-Hsi Chung (D’86, GD’92)</td>
<td>2017</td>
</tr>
<tr>
<td>(assumes presidency in May 2017)</td>
<td></td>
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<tr>
<td>Peter M. Greco (D’79, GD’84)</td>
<td>2009</td>
</tr>
<tr>
<td>Joseph Damone (D’65, GD’72)</td>
<td>2001</td>
</tr>
<tr>
<td>Rocco J. Di Paolo (D’47)</td>
<td>1993</td>
</tr>
<tr>
<td>J. Daniel Subtelny (D’47)</td>
<td>1975</td>
</tr>
<tr>
<td>Jacob A. Saltzmann (D’23)</td>
<td>1961</td>
</tr>
</tbody>
</table>

“Research is a major factor driving the profession forward. While nationwide fewer ortho graduates are interested in staying in academics full-time to pursue research, we are seeing growing success in building interest in both the DScD and MSOB that provide a path to an academic career.”

— DR. CHUN-HSI CHUNG (D’86, GD’92)
The DScD program was introduced at Penn Dental Medicine in 2011, and the Orthodontics Department’s first DScD graduate — Dr. Hyeran Helen Jeon (GD’16) — will earn her degree this year. “My long-term goal is to become a clinician-scientist within a dental school,” says Dr. Jeon. She is well on her way. Working in the lab of Dr. Dana Graves, Professor and Interim Chair of Periodontics, her DScD thesis project is on the role of FOXO1 on angiogenesis and epithelial-mesenchymal transition during both normal and diabetic gingival wound healing. “I see this project as the starting point for my long-term research goal of expanding the field of diabetes, angiogenesis, and bone remodeling in orthodontics,” notes Dr. Jeon. Through her DScD, Dr. Jeon’s research earned her the “Young Investigator Award” from the International Association of Dental Research in 2015.

Fellow resident and DScD candidate Dr. Farraj Saad Albalawi (GD’17) says “the DScD is allowing me to get the most out of my Penn education.” He is conducting research in the lab of Dr. Claire Mitchell, Associate Professor, Department of Anatomy & Cell Biology, on linking mechanical strain to cytokine release. While MSOB candidate Dr. Sara Malenbaum Kasten (D’13, GD’16) has been working in the craniofacial research lab of Clinical Associate Professor of Orthodontics Dr. Hyun-Duck Nah at Children’s Hospital of Philadelphia, evaluating the delivery systems for bone-graft materials for children with craniofacial defects.

PRODUCING “SCHOLAR CLINICIANS”

Indeed, it is students like Dr. Chong who continue to build the legacy of the Department. “Our stellar students and in turn our accomplished alumni have made our Department a front runner,” observes Dr. Peter Greco (D’79, GD’84), Clinical Professor and Co-Director of the Orthodontic Clinic. “Our program is known for producing scholar clinicians.”

The highly competitive orthodontic program continues to attract top students from across the country and around the world — applications average 233 for the seven orthodontic residency spots in each class, and in 2015, 14 applied for the one annual spot in the Orthodontics/Periodontics Program. Among the current group of residents, along with the nine in the two-year orthodontics program, there are five residents pursuing their certificates in the three-year MSOB and five in the five-year DScD programs — both research focused. And of the four orthodontics/periodontics residents, two are also earning their MSOB.

“Research is a major factor driving the profession forward,” says Dr. Chung. “While nationwide, fewer ortho graduates are interested in staying in academics full-time to pursue research, we are seeing growing success in building interest in both the DScD and MSOB that provide a path to an academic career.” The DScD program was introduced at Penn Dental Medicine in 2011, and the Orthodontics Department’s first DScD graduate — Dr. Hyeran Helen Jeon (GD’16) — will earn her degree this year.

“My long-term goal is to become a clinician-scientist within a dental school,” says Dr. Jeon. She is well on her way. Working in the lab of Dr. Dana Graves, Professor and Interim Chair of Periodontics, her DScD thesis project is on the role of FOXO1 on angiogenesis and epithelial-mesenchymal transition during both normal and diabetic gingival wound healing. “I see this project as the starting point for my long-term research goal of expanding the field of diabetes, angiogenesis, and bone remodeling in orthodontics.”

“With one of my ongoing priorities being to elevate scholarly activities within the Department, the DScD and MSOB programs are playing a vital role in that among our residents,” adds Dr. Chung.

ADVANCING CLINICAL TRAINING

In the realm of clinical training, the orthodontics program has been recognized throughout its history for the depth of its clinical instruction and that continues to be a strength that draws students and helps them excel as clinicians. Today, balancing students’ time between exposure to new, rapidly emerging clinical technologies with the teaching of foundational orthodontics is one of the greatest challenges, notes Dr. Guoqiang Guan, Director of the Postdoctoral Orthodontics Program and the Department’s newest standing faculty member, who joined the School last summer from State University.
of New York at Buffalo. “Both need to occur, but we remain committed to the importance of a strong foundation first,” he says.

“The clinical curriculum continues to rapidly evolve as new techniques become available and the diversity of faculty plays an essential role in this respect,” adds Dr. Guy Coby (GD’87, GD’90), Clinical Associate Professor of Orthodontics and Co-Director of the Orthodontic Clinic. “Many of our faculty members have unique expertise that allows our residents to use techniques in patient care that residents at other institutions only read about.”

Resident Dr. Sara Malenbaum Kasten (D’13, GD’16) agrees. “Above all, I have been amazed by the diversity in our curriculum. I’ve learned there are many ways to get from A to B,” she says. “The introduction to different treatment techniques and orthodontic philosophies has given me great confidence to enter the ‘real world.’ The incredible faculty is the real strength of our program.”

Presently, the orthodontics faculty includes 46 associated clinical faculty members and four standing faculty. Dr. Guan and Dr. Hyun (Michel) Koo, Professor, who joined the School in 2013, are the newest standing faculty. Dr. Koo, with joint appointments in the Department of Orthodontics and Divisions of Pediatric Dentistry & Community Oral Health, has added to the scholarly activities of the Department with a research focus on pathogenic biofilms and tooth decay.

While adding to the full and part-time faculty is among Dr. Chung’s priorities moving forward, he notes the ongoing contributions many longtime members continue to make to the Department, including Dr. Jerome Skarloff, Clinical Professor of Orthodontics, with a remarkable 64 years of service.

**ENHANCING CLINICAL EXPERIENCE**

Another step to help advance clinical training within the orthodontics program is set to launch in the 2017 application cycle when the 24-month residency will become a 26-month program. “Our goal with this extension is to give students more clinical experience and added time to help them prepare more cases toward the American Board of Orthodontics (ABO) certification examination,” says Dr. Chung, who will begin his term as ABO President in 2017 (see page 10). While these two additional months may not allow enough time for residents to complete all of their Board cases by graduation, it will help them to move closer to that goal. “We’re excited about the added help this will give our residents,” he says.

“We are proud to announce that the Brainerd F. Swain Orthodontic Clinic 10 years ago was a milestone for taking the orthodontics program to a new level, and now, the Department is looking to build on its facilities, student scholarship, and research resources once again with the Centennial Campaign.”

Dr. Vanarsdall recalls how Dr. Greco and his campaign co-chair at the time — another devoted alumnus and faculty member Dr. J. Henry O’Hern (D’53, GD’55) — helped to build tremendous alumni support for the clinic construction, and he is optimistic alumni will enable the Department to reach the $1 million goal for this current campaign as well. “We truly do have the most loyal alumni,” says Dr. Vanarsdall. “They are like family.”

In looking to the future of Penn orthodontics, perhaps it is this legacy of alumni connections to each other and the School that is one of the most enduring distinctions for the program’s current students. “When choosing a residency program, I saw the

**CALLING ALL ORTHO ALUMNI**

Going forward in this centennial year, plans are set for a number of special programs, including two internationally focused continuing education events — one in Beijing in May and another week-long immersion program at Penn Dental Medicine in October, targeted to clinicians from Asia, Europe, and South America, in advance of the Department’s Alumni Day, October 28.

And setting the stage for future development is the Penn Ortho Centennial Campaign (see adjoining page). The opening of

loyalty among alumni as one of the many advantages of Penn,” recalls Dr. Christine Martin (D’14, GD’16). First-year resident Dr. Brianna Yang (D’15, GD’17) agrees. “It’s truly amazing to see alumni staying active in the Department. Their unyielding commitment to this program is inspiring. I hope to follow their example and do the same.”


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**The introduction to different treatment techniques and orthodontic philosophies has given me great confidence to enter the ‘real world.’ The incredible faculty is the real strength of our program.”**

— DR. SARA MALENBAUM KASTEN (D’13, GD’16)

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ABOVE: Dr. Jerome Skarloff, Clinical Professor of Orthodontics, continues to share his wisdom with students. He has served as part of the faculty in the Department of Orthodontics for 64 years.
Penn Ortho Centennial Campaign

As the Department of Orthodontics celebrates its 100th anniversary in 2016, the Penn Ortho Centennial Campaign is underway to build vital resources for the Department and its programs now and well into the future. The Centennial Campaign will support three complementary initiatives — expansion, resident scholarships, and an opportunity fund for research and scholarship.

EXPANSION. The Centennial Campaign will enable the Department to add three–four new operatories to the School’s Brainerd F. Swain Orthodontic Clinic. The added chairs will accommodate the growing number of residents pursuing their orthodontics certificate with the Master of Science in Oral Biology (MSOB) and Doctoral of Science in Dentistry (DScD) degrees. The Campaign will also support improved digital capabilities, enhancing the orthodontic teaching environment.

RESIDENT SUPPORT. Residents are the Department’s most important legacy and its contribution to moving the profession forward. The Centennial Resident Support Fund will provide resources for students who need help with tuition or engaging in extramural professional activities. For instance, the class of 1988 with friends in other years has established the Robert Vanarsdall Scholarship Fund.

OPPORTUNITY FUND. To preserve and enhance the excellence of the Department, funds are needed to support new junior faculty members, to invite guest speakers, and to host important seminars and colloquia. The Orthodontics Opportunity Fund will provide resources for the Department to remain a leader in orthodontic research, education, and practice.

“Penn orthodontics is an internationally recognized, premier orthodontic program. But this legacy will only continue if the facilities and curriculum keep pace with our ever changing field,” says Dr. Guy Coby (GD’87, GD’90), co-chair of the Ortho 100 Committee. “We can’t fool ourselves that we will retain our place in history by resting on our laurels. This is why our present Penn Ortho Centennial Campaign is so important. It clears the path for us to move forward.”

We invite you to invest in the Department’s future through the Penn Ortho Centennial Campaign. To date, $660,000 of the $1 million goal has been reached — join your classmates and help the Department cross the finish line in this anniversary year. Every gift makes a difference and all donors will be recognized through a prominently displayed centennial plaque at the following levels:

- **Founder** $100,000 and above
- **Fellow** $25,000 – $99,999
- **Ambassador** $5,000 – $24,999
- **Associate** $1,000 – $4,999

To make a gift online visit www.dental.upenn.edu/ortho100. For more information, contact Maren Gaughan, gaughan@upenn.edu, 215-898-8952.

Save the Date: Ortho Alumni Day 2016

Join in celebrating 100 years of Penn Orthodontics

Oct. 28, 2016, Union League of Philadelphia

Speakers: Dr. Raymond Fonseca and Dr. Tim Turvey

Learn more and register: www.dental.upenn.edu/orthoalumniday

“We can’t retain our place in history by resting on our laurels. That’s why our present Penn Ortho Centennial Campaign is so important. It clears the path for us to move forward.”

— DR. GUY COBY (GD’87, GD’90), ORTHO 100 COMMITTEE CO-CHAIR
Advancing Research & Scholarship

PENN DENTAL MEDICINE has a rich history as a research intensive institution, and the School continues to build on its reputation as an international leader in the generation of new knowledge. Research and scholarship in 2015 continued on an impressive trajectory. Penn Dental Medicine is now ranked third among dental schools in funding from the National Institutes of Health (NIH) – a noteworthy accomplishment given the NIH is the premier source of health sciences funding and very competitive.

In 2015, Penn Dental Medicine researchers published papers with high impact in the scientific community as demonstrated by the quality of journals in which their work appeared. The impact factor of the articles published was up significantly over 2013 and 2014. Also indicative of Penn Dental Medicine’s preeminence is the five-year “h factor” of its faculty in both the clinical and basic science departments. This statistic reflects the citations of an author’s publications over a five-year period. The scholarly activities in a wide range of departments across disciplines are clearly evident, reflecting the broad impact of Penn Dental Medicine in dentistry and oral health sciences.

In the pages that follow, we are pleased to highlight the School’s research and scholarship in 2015. Included is:

- a snapshot of the scholarly activity of the Penn Dental Medicine standing faculty with a chart showing the number of publications and impact of that research output (five-year h index) (page 15);
- the top five high impact articles for 2015 in the basic science and clinical departments (page 16) and top five high impact review articles (page 17);
- and the top five grant awards for new projects in 2015 as well as the extramural funding levels of the top ten principal investigators in 2015 (pages 15, 17).

Dana Graves, DDS, DMSc
Vice Dean for Research and Scholarship
Professor and Interim Chair, Department of Periodontics

The School continues to build on its reputation as an international leader in the generation of new knowledge. Research and scholarship in 2015 continued on an impressive trajectory.
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, 2011 – December 31, 2015). 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>FACULTY</th>
<th>DEPARTMENT</th>
<th># ARTICLES 2011–2015**</th>
<th>H INDEX 2011–2015**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Songtao Shi</td>
<td>Anatomy &amp; Cell Biology</td>
<td>87</td>
<td>21</td>
</tr>
<tr>
<td>Dr. George Hajishengallis</td>
<td>Microbiology</td>
<td>62</td>
<td>18</td>
</tr>
<tr>
<td>Dr. Henry Daniell</td>
<td>Biochemistry</td>
<td>50</td>
<td>16</td>
</tr>
<tr>
<td>Dr. Dana T. Graves</td>
<td>Periodontics</td>
<td>45</td>
<td>14</td>
</tr>
<tr>
<td>Dr. Hyun (Michel) Koo</td>
<td>Orthodontics/COH/Pediatrics</td>
<td>34</td>
<td>14</td>
</tr>
<tr>
<td>Dr. Anh Le</td>
<td>Oral Surgery &amp; Pharmacology</td>
<td>26</td>
<td>11</td>
</tr>
<tr>
<td>Dr. Gary H. Cohen</td>
<td>Microbiology</td>
<td>23</td>
<td>11</td>
</tr>
<tr>
<td>Dr. Denis Kinane</td>
<td>Periodontics/Pathology</td>
<td>22</td>
<td>9</td>
</tr>
<tr>
<td>Dr. Claire Mitchell</td>
<td>Anatomy &amp; Cell Biology</td>
<td>23</td>
<td>9</td>
</tr>
<tr>
<td>Dr. Kathleen Boesze-Battaglia</td>
<td>Biochemistry</td>
<td>21</td>
<td>8</td>
</tr>
<tr>
<td>Dr. Kelly Jordan-Sciutto</td>
<td>Pathology</td>
<td>16</td>
<td>8</td>
</tr>
<tr>
<td>Dr. Yan Yuan</td>
<td>Microbiology</td>
<td>14</td>
<td>7</td>
</tr>
<tr>
<td>Dr. Hydar Ali</td>
<td>Pathology</td>
<td>11</td>
<td>7</td>
</tr>
<tr>
<td>Dr. Markus B. Blatz</td>
<td>Preventive &amp; Restorative Sciences</td>
<td>36</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Thomas P. Sollecito</td>
<td>Oral Medicine</td>
<td>27</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Sunday O. Akintoye</td>
<td>Oral Medicine</td>
<td>13</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Eric Stoopler</td>
<td>Oral Medicine</td>
<td>59</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Faizan Alawi</td>
<td>Pathology</td>
<td>23</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Elliot V. Hersh</td>
<td>Oral Surgery &amp; Pharmacology</td>
<td>17</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Frank C. Setzer</td>
<td>Endodontics</td>
<td>14</td>
<td>5</td>
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<tr>
<td>Dr. Jonathan Korostoff</td>
<td>Periodontics</td>
<td>10</td>
<td>5</td>
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<tr>
<td>Dr. Bekir Karabucak</td>
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<td>5</td>
</tr>
<tr>
<td>Dr. SyngcuK Kim</td>
<td>Endodontics</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Joseph M. DiRienzo</td>
<td>Microbiology</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

**The articles that were included were published between January 1, 2011 and December 31, 2015. It should be noted that publication and citation practices differ among disciplines and specialties.

Extramural Funds

Extramural funding of the top 10 Penn Dental Medicine principal investigators in 2015:

<table>
<thead>
<tr>
<th>FACULTY/DEPARTMENT</th>
<th>2015 TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. George Hajishengallis</td>
<td>$1,920,314</td>
</tr>
<tr>
<td>Microbiology</td>
<td>$1,504,276</td>
</tr>
<tr>
<td>Dr. Henry Daniell</td>
<td>$1,149,100</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>$1,504,276</td>
</tr>
<tr>
<td>Dr. Dana Graves</td>
<td>$1,149,100</td>
</tr>
<tr>
<td>Periodontics</td>
<td>$773,404</td>
</tr>
<tr>
<td>Dr. Bruce Shenker</td>
<td>$773,404</td>
</tr>
<tr>
<td>Pathology</td>
<td>$773,404</td>
</tr>
<tr>
<td>Dr. Kathleen Boesze-Battaglia</td>
<td>$759,397</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>$759,397</td>
</tr>
<tr>
<td>Dr. Kelly Jordan-Sciutto</td>
<td>$628,829</td>
</tr>
<tr>
<td>Pathology</td>
<td>$628,829</td>
</tr>
<tr>
<td>Dr. Hyun (Michel) Koo</td>
<td>$532,154</td>
</tr>
<tr>
<td>Orthodontics/COH/Pediatrics</td>
<td>$532,154</td>
</tr>
<tr>
<td>Dr. Claire Mitchell</td>
<td>$525,171</td>
</tr>
<tr>
<td>Anatomy &amp; Cell Biology</td>
<td>$525,171</td>
</tr>
<tr>
<td>Dr. Roselyn Eisenberg</td>
<td>$437,251</td>
</tr>
<tr>
<td>Microbiology</td>
<td>$437,251</td>
</tr>
<tr>
<td>Dr. Yan Yuan</td>
<td>$418,538</td>
</tr>
<tr>
<td>Microbiology</td>
<td>$418,538</td>
</tr>
</tbody>
</table>
2015 High Impact Articles: Basic Science Departments

Among the original research articles published by standing faculty within the Penn Dental Medicine basic science departments in 2015, 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>Liu, S., Liu, D., Chen, C., Hamamura, K., Moshaverinia, A., Yang, R., Liu, Y., Jin, Y., Shi, S.</td>
<td>MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus</td>
<td><em>Cell Metabolism</em></td>
<td>17.6</td>
<td>Anatomy &amp; Cell Biology</td>
</tr>
<tr>
<td>Shin, J., Maekawa, T., Abe, T., Hajishengallis, E., Hosur, K., Pyaram, K., Mitroulis, I., Chavakis, T., Hajishengallis, G.</td>
<td>DEL-1 Restrains Osteoclastogenesis and Inhibits Inflammatory Bone Loss in Nonhuman Primates</td>
<td><em>Science Translational Medicine</em></td>
<td>15.8</td>
<td>Microbiology</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 InCites™ Journal Citation Reports®. The JCR, 2014, was used for these figures.

2015 High Impact Articles: Clinical Departments

Among the original research articles published by standing faculty within the Penn Dental Medicine clinical departments in 2015, 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 Oral Ulcers</td>
<td><em>JAMA</em></td>
<td>35.3</td>
<td>Oral Medicine</td>
</tr>
</tbody>
</table>

**co-senior author
2015 High Impact Review Articles

Among the review articles published by standing faculty within the Penn Dental Medicine in 2015, 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>Periodontitis: From Microbial Immune Subversion to Systemic Inflammation</td>
<td>Nature Reviews Immunology</td>
<td>35</td>
<td>Microbiology</td>
</tr>
<tr>
<td>Jin, S., Daniell, H.</td>
<td>The Engineered Chloroplast Genome Just Got Smarter</td>
<td>Trends in Plant Science</td>
<td>12.9</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Lamont, R.J., Hajishengallis, G.</td>
<td>Polymicrobial Synergy and Dysbiosis in Inflammatory Disease</td>
<td>Trends in Molecular Science</td>
<td>9.5</td>
<td>Microbiology</td>
</tr>
<tr>
<td>Chan, H.-T., Daniell, H.</td>
<td>Plant-made Oral Vaccines Against Human Infectious Diseases — Are We There Yet?</td>
<td>Plant Biotechnology Journal</td>
<td>5.8</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Hajishengallis, G., Chavakis, T., Hajishengallis, E., Lambris, J.D.</td>
<td>Neutrophil Homeostasis and Inflammation: Novel Paradigms from Studying Periodontitis</td>
<td>Journal of Leukocyte Biology</td>
<td>4.3</td>
<td>Microbiology</td>
</tr>
</tbody>
</table>

Top Clinical Department Grant Awards

In 2015, the top five grant awards for new projects within the Penn Dental Medicine clinical departments, included:

**Epigenetics, Dysbiosis and Inflammation in Epithelial Cells**
Principal Investigator: Dr. Denis F. Kinane, Depts. of Periodontics/Pathology (NIDCR/NIH/DHHS, $2,000,000)

**S. mutans-C. albicans Interactions Synergize the Virulence of Cariogenic Biofilms**
Principal Investigator: Dr. Hyun (Michel) Koo, Dept. of Orthodontics/Div. of COH/Div. of Pediatrics (NIDCR/NIH/DHHS, $1,990,000)

**Penn Multidisciplinary Consortium: Personalized Dental, Oral and Craniofacial Tissue Regeneration**
Principal Investigator: Dr. Anh Le, Dept. of Oral Surgery and Pharmacology (NIDCR/NIH/DHHS, $200,000)

**Factors that Affect Re-epithelialization**
Principal Investigator: Dr. Dana Graves, Dept. of Periodontics (Colgate Palmolive Company, $83,884)

**Overexpression of Notch3 by MSCs in the Pathogenesis of Jaw Bone Giant Cell Tumors**
Principal Investigator: Dr. Qilin Xu, Dept. of Oral Surgery and Pharmacology (Oral and Maxillofacial Surgery Foundation, $75,000)

Top Basic Science Department Grant Awards

In 2015, the top five grant awards for new projects within the Penn Dental Medicine basic science departments, included:

**Functions of HSV Glycoproteins in Virus Entry and the Humoral Immune Response**
Principal Investigator: Dr. Gary H. Cohen, Dept. of Microbiology (National Institute of Allergy and Infectious Diseases/NIH/DHHS, $1,800,000)

**Development of Small Molecule Therapeutics against Smallpox and Other Poxviruses**
Principal Investigator: Dr. Robert P. Ricciardi, Dept. of Microbiology (Fox Chase Chemical Diversity Center, $870,757)

**Oral Therapy for Diabetic Retinopathy using ACE2/Ang1-7 Bio-encapsulated in Plant Cells**
Principal Investigator: Dr. Henry Daniell, Dept. of Biochemistry (University of Florida, $695,464)

**RNA Binding Protein Complexes in Neurons and SIV Encephalitis**
Principal Investigator: Dr. Kelly L. Jordan Sciutto, Dept. of Pathology (National Institute of Mental Health/NIH/DHHS, $429,546)

**Ticagrelor and Macular Degeneration**
Principal Investigator: Dr. Claire H. Mitchell, Dept. of Anatomy & Cell Biology (AstraZeneca, $223,209)
IN MARCH, THE newest class of foreign-trained dentists began their studies in Penn Dental Medicine’s Program for Advanced Standing Students (PASS), joining 120 students already enrolled in the Class of 2018. The diverse group of 14 women and 15 men come from 12 countries spanning three continents.

This year marks the 30th anniversary of the formal PASS program which, including the Class of 2018, will have graduated 888 foreign-trained dentists from 83 countries around the globe, enabling them to take state licensing exams and practice in the U.S. (and there are even more alumni from the early beginning of PASS, before it became a formalized program).

Dr. Uri Hangorsky, Clinical Professor of Periodontics, Associate Dean for Academic Affairs and Student Life and Director of PASS, says there are many reasons foreign-trained dentists want to practice in the U.S. Some are leaving war-torn countries and political persecution, others are joining family members in the U.S. and just about all are seeking better lives and career opportunities.

The program is clearly meeting a need. The first 12 PASS students enrolled in 1986, and within six years enrollment was up to 31 students. This year, almost 1,000 foreign-trained dentists applied for the 29 spots in the Class of 2018.
Prior to 1986, there were less formal opportunities for foreign-trained dentists to enroll at Penn Dental Medicine, primarily for those who were faculty members or had come for advanced training. One of those was Dr. Peter Berthold (D’83), Professor Emeritus of Preventive and Restorative Sciences, who went on to direct the School’s PASS program from its first formal year in 1986 to 2005.

“Political situations in the world have made many individuals leave their countries,” says Dr. Berthold, who after retiring from Penn Dental Medicine joined the University of Minnesota School of Dentistry to start a similar program. “Several students in the first class had been in refugee camps before they came to the U.S., and one student from Czechoslovakia had crawled across the border to Hungary and said every time he put down a hand or knee he expected a mine to blow up.”

After earning his DDS and PhD degrees in his native Sweden, in 1979 Dr. Berthold came to Penn Dental Medicine to do postdoctoral research. Although initially he planned to return home, in 1981 he joined the Penn Dental Medicine Class of 1983 to earn his DMD here, after which he joined the faculty as assistant professor. His background gave him valuable insights into the experience of future PASS students.

“It was important that I had done what they were going to do, it made them trust me and do their absolute best,” says Dr. Berthold, now retired from the University of Minnesota. Of the 500 or so PASS students enrolled during his tenure, he says only one failed to complete the program. “I’m extremely proud of the program and the students,” he says, also noting that Dr. Naty Lopez, who joined him in 1989 to help direct PASS, played an instrumental role in helping to build the School’s program. She later joined Dr. Berthold at the University of Minnesota, where she is now associate professor and assistant dean for admissions and diversity.

Since that first year, interest and applications have continued to grow. Penn Dental Medicine’s international reputation and the strength of the PASS program have made it a draw for students from every continent except Antarctica, stretching from Albania and Cambodia to Canada, China, Fiji, Mongolia, Myanmar, Poland, Sri Lanka, Tanzania and Uzbekistan.

One of the hallmarks of Penn Dental Medicine’s PASS program is the full integration of the foreign-trained dentists with the existing class of predoctoral DMD students. Currently, PASS students start in March with an 11-week preparatory program and then integrate with the third-year class at the start of the academic year.

Beginning next year with the Class of 2019, however, PASS students will start the program in January, fully joining their class in the second semester of the second year. Dr. Hangorsky says this will provide additional preclinical and laboratory training, supplemented with seminars, for PASS students, and allow them earlier immersion with their classmates.

Although PASS students generally are thrilled to have the opportunity to study at Penn Dental Medicine, many do face challenges, Dr. Hangorsky says. These include acclimating to a new country and city; separation from spouses, children and family members who may remain in unsafe regions; concerns about immigration status; and financial worries.

Yet, the benefits of the PASS program are clear, both for students and Penn Dental Medicine. “The program brings very talented people with a different perspective to Penn Dental Medicine, creating a multicultural environment,” Dr. Hangorsky says. “It’s a great asset to the School, to the students, and to our admissions efforts. It makes us a global university and sets us apart from others.”

This year marks the 30th anniversary of the formal PASS program which, including the Class of 2018, will have graduated 888 foreign-trained dentists from 83 countries around the globe.
THIRTY YEARS AGO, Penn Dental Medicine formally established its Program for Advanced Standing Students (PASS) to enable foreign-trained dentists to practice in the U.S. Graduates have gone on to teach, practice, and conduct research throughout the U.S. Following are the compelling stories of an alumna and current student — what brought them to Penn Dental Medicine's PASS program and its impact on their lives and careers.

Changing Course after a Revolution

Dr. Mahvash Navazesh (GD’78, GD’80, D’83) had no intention of staying in the U.S. when she came to Penn Dental Medicine in 1977 for a one-year general practice residency. But a revolution in her home country of Iran forced her to consider another path, and has led to a prominent career in academic dentistry and research in the decades since then.

Today, Dr. Navazesh is Professor of Diagnostic Sciences and Associate Dean of Academic Affairs and Student Life at the Herman Ostrow School of Dentistry of University of Southern California. In addition to teaching and service, over the past 30 years, she has focused her research on salivary gland function and disturbed oral sensation, an interest she first cultivated at Penn Dental Medicine.

Her research has led to protocols for measuring saliva and managing patients with Sjogren's syndrome, an autoimmune disease whose common symptoms are dry eyes and mouth. Her current research is focused on saliva as a diagnostic fluid in risk assessment and disease prevention and the impact of HIV infection on salivary gland function.

Dr. Navazesh joined the USC faculty in 1987, ten years after she left Iran. In addition to her current positions, over the years she has served as Acting Dean of the School of Dentistry; Chair of the Division of Diagnostic Sciences; Director of Oral Medicine Residency Program and Director of the Office of Medical Affairs — the first person appointed to that position at the School of Dentistry.

Her path to this outstanding career, however, was far from easy. After earning her D.M.D. from Pahlavi University School of Dental Medicine in Iran, Dr. Navazesh left Iran in August 1977 with a government scholarship to get additional training at Penn Dental Medicine. Her plan was return to her home country to practice and teach.

After the general practice residency, Dr. Navazesh continued on with a two-year oral medicine residency here at Penn Dental as well. Then, in 1979, the Shah of Iran was overthrown and Islamic cleric Ayatollah Khomeini came to power. Almost overnight, strict religious dictates were enforced and Iranian life was in turmoil. In November 1979, Iranian students stormed the U.S. Embassy in Tehran, eventually holding 52 Americans hostage for 444 days.

Dr. Navazesh, who had left her parents and three sisters behind in Iran, never returned to her home country. “When I left home, I thought I would be gone for 12 months,” she recalls. “I never thought almost 40 years later I would still be in this country.” In the early years after the revolution, she struggled. She lost her scholarship funding from the Iranian government and feared she would be deported back to Iran. Dr. Navazesh decided it was critical that she gain the credentials needed to practice dentistry in the U.S. Through an early version of Penn Dental Medicine’s Program for Advanced Standing Students (PASS), which was formally established in 1986, she received her DMD degree with the Class of 1983.

“It was a very stressful part of my life, overnight my country was gone, my funding taken away and you have to survive,” she says. “When the hostages were taken, the atmosphere was not as friendly outside, but Penn was like home to us. I’m very grateful for the education I received there, and worked very hard day and night to continue. I loved the people there and enjoyed what I was doing, it gave me the power to keep going on.”

At Penn Dental Medicine, from 1981 to 1985 she was Clinical Assistant Professor and Research Assistant Professor in the Department of Oral Medicine and, because of her research interest in salivary function, she also spent time as a research associate at nearby Monell Chemical Senses Center.

In 1983, Dr. Navazesh was selected as the first dentist to receive a Clinical Associate Physician Fellowship from the National Institutes of Health.

Meanwhile, by the mid-1980s, most of her family had managed to leave Iran for Southern California, and her heart was pulling her west. “My immediate family was all here, and I needed to do my best to create a new opportunity and home,” she says. After a challenging 18 months preparing for the state boards, in 1987 she received her license and accepted a tenure-track position at USC.

In California, she married and raised two daughters, now 23 and 26. Although her path was not what she expected when she left Iran in 1977, she is grateful for the opportunity Penn Dental Medicine gave her to start a new life in the U.S. “The opportunity to earn my DMD from Penn was priceless,” she says.
Swapnil Mahendrakar (D’16)  
From India & the U.S. Army to Penn Dental Medicine

Swapnil Mahendrakar (D’16) says she likes a challenge, but that may be an understatement. After two years of practicing dentistry in her home country of India, she left for graduate studies in health administration and business in Texas. She worked three jobs to support herself while completing both degrees in less than two years, and during this time, she also met and married her husband.

From there, her life took another unusual turn: she joined the U.S. military through a special recruiting program, Military Accessions Vital to the National Interest, that allows legal non-citizens with in-demand skills to join the Army. The program also allows for expedited U.S. citizenship.

After training at bases in Oklahoma and San Antonio, Dr. Mahendrakar served as a Special Forces combat medic in Fort Bragg, N.C., the first woman in her unit to do so. She worked on deployment training, preparing others to go into battle, teaching them to provide medical care on the battlefield, and running prisoner-of-war camp simulations to work through capture scenarios. Along with her daily responsibilities, she spent time with the dentist who served the base.

“I’ve always been on the adventurous side, but never had much chance in India,” Dr. Mahendrakar says. For her family, it was strange enough that she left her dental career in India to attend graduate school in America, but they were truly left shaking their heads when she joined the Army. Of her service, though, she says, “I loved every moment: the challenges, proving yourself every day, overcoming fears. And I made great friends.”

By the time her four-year military stint ended in 2014, she was a U.S. citizen, married and pregnant and had been accepted to Penn Dental Medicine’s Program for Advanced Standing Students (PASS), which would enable her to practice in her new country. Another benefit of her service — she was eligible for scholarship assistance through the U.S. Department of Veterans Affairs’ Yellow Ribbon program.

Penn Dental Medicine was her first choice. “Penn has everything: a well-structured program, an awesome clinical experience, international recognition — to get into Penn is such a big thing for almost every international student,” she says. In addition, she says, “the full integration of PASS students into the rest of the class is so important.”

She entered the program in March 2014 and her daughter, Anaya, was born in July, fortuitously coinciding with the break between third and fourth year. With help from her mother and mother-in-law, who alternated coming from India to help care for the baby, Dr. Mahendrakar kept up the demanding pace of completing her dental education.

Coming back to dentistry after an eight-year hiatus was challenging. In addition to new technology and equipment, she found the practice of dentistry in the U.S. quite different from that in India, including more paperwork and better-informed patients. Once she started the program, however, “it felt like déjà vu,” she recalls. “The scariest part is you know you have to start from scratch, but it was a challenge and I love challenges.”

After she graduates in May, Dr. Mahendrakar will enter a two-year pediatric residency program at Yale School of Medicine. In another stroke of good timing, she is due to give birth to her second child, a boy, in June, just before her residency starts.

Although the growing family, including the dog, will leave Philadelphia for the two years of her residency, she and her husband Lokesh, a physician, plan to keep their home here and return when she is done. Ultimately, she hopes to work part-time in private practice and teach at Penn Dental Medicine.

And never one to turn from a challenge, Dr. Mahendrakar says she would like to serve again in the military. “In India, I was expected to get married and settle down,” she says. “How many women from there get an opportunity to join the U.S. Army and do something different with their lives?”

— By Debbie Goldberg

Celebrating, Connecting PASS Alumni

At Alumni Weekend 2016, Penn Dental Medicine will be celebrating with Program for Advanced Standing Students (PASS) alumni to mark the 30th Anniversary of the official PASS program. A special dinner is planned on Friday, May 13, to recognize the program and the achievements of its graduates. For PASS alumni unable to return for this special gathering, we’d like to hear from you — let us know where your post-Penn Dental Medicine path has led and we can share your news with fellow alumni in the next Penn Dental Medicine Journal. Contact alumnifeedback@dental.upenn.edu or 215-898-8951.
ANATOMY & CELL BIOLOGY

SELECTED PUBLICATIONS
A selection of recently published work by department researchers (indicated in bold).


Zhang Z, Nor F, Oh M, Cucco C, Shi S, Nor JE. Wnt/beta-catenin signaling determines the vasculogenic fate of post-natal mesenchymal stem cells. Stem Cells. 2016 Feb 11. DOI:10.1002/stem.2334 [doi].

STEM CELLS & LUPUS
A study from the lab of Dr. Song-tao Shi, Chair, Dept. of Anatomy & Cell Biology, has puzzled out a mechanism by which stem cell transplants may help preserve bone in an animal model of lupus. The work has implications for potential therapeutic strategies for lupus and other diseases for which stem cell transplants have shown promise. See:


BIOCHEMISTRY

SELECTED PUBLICATIONS
A selection of recently published work by department researchers (indicated in bold).


ENDODONTICS

NEWS/ACHIEVEMENTS
Dr. Frank Setzer, Assistant Professor of Endodontics, was named an Honorary Member of the Society of German Certified Endodontists (VDZE).

SELECTED PUBLICATIONS
A selection of recently published work by department researchers (indicated in bold).


**ACADEMIC UPDATE**

**IN BEIJING**

Adding to the School’s global engagement, Dr. Bekir Karabucak, Interim Chair, Dept. of Endodontics, and resident, Dr. Jack Lin conducted two, two-day hands on courses on micro-endodontics at The Penn Wharton China Center in Beijing in January 2016. Clinicians from throughout China attended.


**MICROBIOLOGY**

**SELECTED PUBLICATIONS**

A selection of recently published work by department researchers (indicated in bold).


Maekawa T, Hosur K, Abe T, Kantarci A, Ziegas A, Wang B, Van Dyke TE, Chavakis T, Hajishengallis G. Antagonistic effects of IL-17 and D-resolvins on endothelial del-1 expression through a GSK-3beta-C/EBPbeta pathway. Nat Commun. 2015 Sep 16; 6:8272. DOI:10.1038/ncomms9272 [doi].


**ORAL MEDICINE**

**NEWS/ACHIEVEMENTS**

Dr. Eric Stoopler. Associate Professor of Oral Medicine, has been elected Vice President of the American Academy of Oral Medicine. He was also the recipient of the Dr. Carlos Francisco Salinas Award from the Special Care Dentistry Association for his editorial work for the Special Care in Dentistry Journal.

**SELECTED PUBLICATIONS**

A selection of recently published work by department researchers (indicated in bold).


**ORAL SURGERY/PHARMACOLOGY**

**SELECTED PUBLICATIONS**
A selection of recently published work by department researchers (indicated in bold).


**RECENT NEW GRANT AWARDS**
Penn Multidisciplinary Consortium: Personalized Dental, Oral and Craniofacial Tissue Regeneration
Sponsor: NIDCR/NIH/HDHS
Principal Investigator: Dr. Anh Le, Chair and Norman Vine Endowed Professor of Oral Rehabilitation, Dept. of Oral Surgery/Pharmacology

Overexpression of Notch3 by MSCs in the Pathogenesis of Jaw Bone Giant Cell Tumors
Sponsor: Oral & Maxillofacial Surgery Foundation
Principal Investigator: Dr. Qilin Xu, Dept. of Oral Surgery/Pharmacology

**ORTHODONTICS**

**NEWS/ACHIEVEMENTS**
The Department of Orthodontics will celebrate its 100th Anniversary at its annual alumni day, Friday, Oct. 28, 2016. This year’s speakers will be oral surgeons Dr. Raymond Fonseca and Dr. Tim Turvey. Attendees are eligible for CE credits. Learn more at www.dental.upenn.edu/orthoodalumni

Dr. Arnold J. Malerman, Clinical Professor of Orthodontics, was honored by HealthTAP.com as Top Orthodontist Nationally, Top Dentist Pennsylvania, and Thought Leader Philadelphia Area for the period of Winter 2015.

**RECENT NEW GRANT AWARDS**
S. mutans-C. albicans interactions synergize the virulence of cariogenic biofilms
Sponsor: NIDCR/NIH/HDHS
Principal Investigator: Dr. Hyun (Michel) Koo, Professor, Dept. of Orthodontics, Divs. of Pediatric Dentistry & Community Oral Health

**SELECTED PUBLICATIONS**
A selection of recently published work by department researchers (indicated in bold).


**PATHOLOGY**

**SELECTED PUBLICATIONS**
A selection of recently published work by department researchers (indicated in bold).


**INTERFERING WITH BRAIN'S “INSULATION”**
In collaboration with Children’s Hospital of Philadelphia, a study from the lab of Dr. Kelly L. Jordan-Sciutto, may show the cause of the cognitive problems HIV patients often experience. They found that commonly used antiretroviral medications disrupted the function of crucial brain cells that manufacture the fatty material that serves to insulate neurons, helping them transmit signals in the brain fast and efficiently. See:


This year’s speakers will be oral surgeons Dr. Hyun (Michel) Koo, Professor, Dept. of Orthodontics, Divs. of Pediatric Dentistry & Community Oral Health.
**ACADEMIC UPDATE**

**SELECTED PUBLICATIONS**
A selection of recently published work by department researchers (indicated in bold).


- Hajishengallis G, Korostoff JM. (co-author in Dept. of Microbiology) Response to comment on “The B cell-stimulatory cytokines BLYS and APRIL are elevated in human periodontitis and are required for B cell-dependent bone loss in experimental murine periodontitis”. (co-author in Dept. of Periodontics) J Immunol. 2015 Dec 1; 195(11):5099–100. DOI:10.4049/jimmunol.1502066 [doi].


**PREVENTIVE & RESTORATIVE SCIENCES**

**SELECTED PUBLICATIONS**
A selection of recently published work by department researchers (indicated in bold).


- Division of Pediatric Dentistry


**BLENDED LEARNING**
The School’s blended learning initiative continues to move forward. The learning technology team has created a studio for producing video lectures, available for all faculty, and all academic departments are participating in a variety of blended learning programs, including the development of iBooks for course materials, lessons using PaGamO (gamification platform), online learning modules, virtual seminars, and video lectures.
THE CONCEPT OF clinician-led scientific research is hardly new and has been the foundation of the practice of medicine and dentistry. The clinician often diagnoses an abnormal condition in a patient that triggers the whole scientific inquiry into the pathophysiological process, the diagnosis, and the treatment. The integration between medical/dental practice and research is essential to achieve efficient and focused progress in advancing health and treatment options.

The National Institutes of Health has taken several steps to further integrate practicing clinicians into the full scope of research and to help facilitate clinical translation of the most promising scientific and technological advances. One such example was recently introduced by the National Institute of Dental and Craniofacial Research (NIDCR) with its call to establish a multidisciplinary dental, oral, and craniofacial tissue regenerative consortium (DOCTRC). The immediate goal of the DOCTRC is to develop effective clinically-applicable strategies for regenerating functional tissues of the human dental, oral, and craniofacial complex.

Practicing clinicians will define areas of unmet clinical need and collaborate with scientists on several key research topics to establish a deliverable product. Stem cell biologists, bioengineers, and regulatory experts will address specific scientific, technical, ethical, and regulatory issues involved in bringing tissue engineered and regenerative medicine products from proof-of-concept to preclinical applications.

To meet the demands of the accelerated translational timeline of this effort, the DOCTRC will employ those tools and strategies that have already demonstrated significant translational potential and readiness to advance through the translational pipeline.

This initiative has galvanized the enthusiasm and integrated the efforts of investigators from several Penn health science institutions, including Penn Dental Medicine, Perelman School of Medicine, the School of Veterinary Medicine, and the School of Engineering and Applied Science. In 2015, a multidisciplinary team of clinicians and scientists from these schools joined efforts to establish the Penn Multidisciplinary Consortium on Personalized Dental, Oral, and Craniofacial Tissue Regeneration and was among 10 institutions to be funded by the NIDCR in Phase I of the DOCTRC.

The DOCTRC will be built through a three-stage process; this first stage involves the development of resource centers, which will be the foundation for the Consortium. Dr. Anh Le, Chair and Norman Vine Endowed Professor of Oral Rehabilitation within Penn Dental Medicine’s Department of Oral & Maxillofacial Surgery/Pharmacology, is the lead principal investigator for the Phase I DOCTRC grant award. Other principal investigators include Dr. Songtao Shi of Penn Dental, Dr. Bert O’Malley of Penn Medicine, Dr. Jason Burdick of Penn Engineering, and Dr. Thomas Schaer of Penn Vet.

The long-term objective of the Penn Multidisciplinary Consortium is to enable rapid translation of tissue engineered and regenerative medicine products to the preclinical and clinical pipeline to address a broad spectrum of fundamental clinical needs in the reconstruction of the injured or dysfunctional orofacial complex affected by diseases, trauma, and warfare.

A research retreat on “Personalized Dental, Oral, and Craniofacial Tissue Regeneration” was organized in March 2016 at Penn, which provided a forum for networking and interaction among clinicians and scientists from academic institutions, clinical practice, and industry, and allowed for the recruitment of potential investigators for the interdisciplinary translational projects.

Collaboration at the University of Pennsylvania is one of the most important aspects of patient care and the integration between several specialties in dentistry, medicine, bioengineering, and veterinary medicine promises faster progress and growth in regenerative research and new advances to apply to patient care across specialties.
Dr. Aaron Hader (D’58) Establishes Charitable Gift Annuity

Dr. Aaron Hader (D’58) recalls the day he received his acceptance letter from Penn Dental Medicine as “the happiest day of my life.” It made such an impression, that he kept that 1954 acceptance letter from Dr. Lester Burket handy for the last 62 years.

A proud member of the class of 1958, Dr. Hader pursued a rewarding and productive career as a general dentist in North Jersey. He is now retired and busy pursuing his dual passions: art and travel. Dr. Hader recently elected to thank the dental school for his education by establishing a charitable gift annuity that will provide a benefit to him during his lifetime and a benefit to Penn Dental Medicine thereafter.

A Charitable Gift Annuity is a contract between Penn and a donor, providing for payments to one or two beneficiaries at a fixed rate. In Dr. Hader’s case, his gift to Penn Dental Medicine provided an immediate tax deduction and guaranteed payments to him for life at an attractive rate of return, one far better than he was receiving holding his savings in a traditional bank account.

Dr. Hader calls the decision to establish the annuity a “no-brainer,” and a “win-win” for him and the dental school. An avid art collector, Dr. Hader is now discussing ways to augment the School’s Thomas Evans Collection with paintings of the same genre, which he has collected over the last 40 years. He hopes to add a “Hader Gallery” someday for the School’s Evans Collection, following in the steps of Dr. Thomas Evans, Penn Dental Medicine’s earliest benefactor.

For information about establishing a charitable gift annuity, contact Elizabeth Ketterlinus, Senior Associate Dean for Development & Alumni Relations at ekett@upenn.edu or 215-898-3328.

BENEFITS OF A CHARITABLE GIFT ANNUITY

- Support a program at Penn that you’re most passionate about
- Supplement retirement income
- Guaranteed payments backed by the assets of the University
- Partially tax-free income
- Capital gains tax savings on appreciated property
- A current income tax deduction

Philly Magazine’s Top Dentists

PENN DENTAL MEDICINE was represented in impressive numbers in Philadelphia Magazine’s biennial Top Dentists list, which appeared in the February 2016 issue. Of the 234 area dentists on the list, 53% had a Penn Dental Medicine affiliation, either as alumni, faculty, or clinicians within the Penn Dental Medicine Family Practice. Here is a breakdown on the numbers by specialty:

General Dentistry 13 of 37 (35%)
Cosmetic Dentistry 13 of 28 (42%)
Orthodontics 21 of 33 (64%)
Pediatric Dentistry 11 of 24 (46%)
Periodontics 17 of 29 (59%)
Endodontics 14 of 27 (52%)
Prosthodontics 18 of 24 (75%)
Oral & Maxillofacial Surgery 14 of 27 (52%)
Oral Medicine 3 of 5 (60%)

Philadelphia Magazine arrives at the Top Dentists listing by sending letters to every dentist in Philadelphia and the surrounding seven-county area to the address on record, inviting them to nominate up to three peers for Top Dentist in each dental specialty via an online survey. Five hundred and thirty-two took the survey, amounting to more than 5,200 votes. The resulting list of 20 Top Dentists in each specialty (including all those who were tied) was reviewed by an advisory board made up of 10 dentists, chosen for their credentials and the high number of votes they received.
2016 Alumni Awards

THE PENN DENTAL Medicine Alumni Society is once again recognizing the accomplishments and dedication of alumni with its annual awards, presenting the Thomas Evans Achievement Award and the Alumni Award of Merit at Alumni Weekend 2016. The awards will be presented as part of a special reception at the School, Friday, May 13, 5–7 pm.

The Thomas Evans Achievement Award is Penn Dental Medicine Alumni Society’s highest award of recognition, honoring alumni who have shown innovation, excellence, and leadership in the profession of oral healthcare nationally and internationally. This year’s recipient is Dr. Robert J. Genco (GD’67, GR’67), who earned his PhD in immunology and microbiology and his certificate in periodontics at Penn.

Dr. Genco has had a widely accomplished career in research, teaching, and clinical periodontics and is presently a State University of New York (SUNY) Distinguished Professor of Oral Biology, Microbiology and Immunology at SUNY at Buffalo. Since 2002, he has also been serving as Vice Provost and Director of the Office of Science, Technology Transfer, and Economic Outreach, which he helped to establish. This office oversees the transfer of university inventions and discoveries to benefit society, and under his leadership, it has processed over 1,000 new technology disclosures. He also directs the University of Buffalo Periodontal Disease Research Center, which has had continuous funding for more than 35 years.

A member of the National Academy of Medicine, his is recognized as a leading expert on periodontal disease and has conducted pioneering studies of the role of infections in increasing the risk of diabetes, cardiovascular disease, and stroke. He has also studied tissue engineering as applied to periodontal and implant surgery. Through his research, Dr. Genco has published over 395 papers, edited 11 texts, and has been awarded 11 patents. Dr. Genco is past president of the American Association for Dental Research and the International Association for Dental Research, and among his many awards, he received the Gold Medal for Excellence in Research from the American Dental Association.

The Alumni Award of Merit recognizes love for and loyalty to Penn Dental Medicine, excellence in the profession of dentistry, and community involvement. The award acknowledges graduates who have maintained their ties with the School through their support of alumni activities, demonstrated leadership in the dental profession, and fostered and maintained the ideals that the School. This year’s recipients are Dr. Jeffrey S. Ingber (GD’71, GD’72) and Dr. Ann Eshenhaur Spolarich (DH’82).

Dr. Ingber, who earned certificates in both periodontics and periodontal prosthesis from Penn Dental Medicine, has maintained strong ties to the School, first joining the faculty in 1971. He previously served as Clinical Professor of Periodontics and is currently Director of the Clinical Honors Program and Clinical Professor in the Department of Preventive and Restorative Sciences. The School’s clinical honors program provides advanced instruction in restorative dentistry through evidence and concept-based clinical teaching methodology. Recognized internationally, Dr. Ingber’s papers on biologic width, orthodontics, and periodontics to enhance dental esthetics are considered by many to be required reading for graduate students in periodontology. He is a fellow of The American Academy of Esthetic Dentistry, the invitation-only membership organization for the most accomplished professionals in the field of esthetic dentistry, and is also a recognized member of Omicron Kappa Upsilon Honorary Dental Society and The Greater New York Academy of Prosthodontics. Dr. Ingber practices in the Amsterdam Group, Philadelphia, established by his mentor Dr. Morton Amsterdam.

Since earning her dental hygiene certificate at Penn, Dr. Spolarich has gone on to become a leader in the field. She holds an MSc in dental hygiene and a PhD in physiology from the University of Maryland at Baltimore, and is presently Professor and Director of Research at the Arizona School of Dentistry and Oral Health, A.T. Still University. She is Course Director of Clinical Medicine and Pharmacology there as well. Dr. Spolarich also serves as Associate Director of the National Center for Dental Hygiene Research & Practice. In addition, she works as an independent research and educational consultant, recognized for her expertise in the areas of pharmacology and the care of medically complex patients. Her many previous awards include two from the American Dental Hygienists Association for advancing the art and science of the profession and the Dental Hygiene Alumni Achievement Award and the Charlotte Sullivan Award from Penn.

CALL FOR NOMINATIONS
Nominations are being sought for the 2017 Alumni Awards — both the Thomas Evans Achievement Award and the Alumni Award of Merit. Nominate one of your fellow alumni or yourself. Simply send a paragraph about the nominee, the award for which you are nominating him/her, his/her involvement with the School, a CV if possible, and your name/contact information as the nominator. Nominations are due by August 31, 2016.

Submit nominations to:
Office of Development & Alumni Relations
Alumni Awards Nominations
Penn Dental Medicine
240 S. 40th Street
Philadelphia, PA 19104
215–898–8951
gauhan@upenn.edu
Alumni-Student Networking
On October 21, the School held the 6th Annual Alumni-Student Networking Event at the Union League. Over 100 students enjoyed networking with alumni, faculty and members of the Penn Dental Medicine Alumni Society.

New York, New York
Penn Dental Medicine’s annual New York Alumni Reception at the Penn Club was held in conjunction with the Greater New York Meeting on November 30, 2015.

Celebrating Scholars
In conjunction with the kick off celebration of the Evans Building Centennial Renaissance construction on November 4, 2015, the School hosted the inaugural “Celebrating Scholarships” dinner. Among the attendees were: Peter Quinn (D’74 GD’78) with Lisenia Collazo Malave (D’19), recipient of the Joseph W. Foote (D’74, GD’80) Scholarship; Board of Overseer Nancy Baker, with Casey DePauw (D’19), recipient of the Robert Baker (D’52) Endowed Scholarship; and Dale Sorcher, daughter of Clem Alpert (C’32, D’34), Alan Sorcher (C’80), and Leah Sorcher (C’18) with Vincent Boyle (D’18), recipient of the Clement & Sandra Alpert Scholarship.

To find upcoming events on campus or in your area, visit the alumni events calendar at www.dental.upenn.edu/alumnievents.
On the Road with Dr. Thomas Evans

Dr. Evans has been visiting alumni all over the country including stops in California, Colorado, Florida, Georgia, Nevada, New Jersey, New York, Pennsylvania and Virginia! See where he will be next on Penn Dental Medicine’s Instagram (@PennDentalMed) and Facebook (www.facebook.com/penn dental).
THOUGH HE’S BEEN practicing dentistry for 35 years, Dr. Randolph Mitchell (D’81) says he’s a “frustrated teacher by nature.”

That urge to teach goes beyond the daily dental health instruction he offers his patients. He has tutored high school students in chemistry for years and — since 2013 — he has been volunteering his time to teach a one-day selective course in Forensic Dentistry at Penn Dental Medicine.

“I love interacting with students over the course of the day and learning about their experiences,” says Dr. Mitchell. “The American Society of Forensic Odontology and the American Academy of Forensic Sciences believe all dental schools should teach forensic odontology. This way, students understand what the medical examiner’s office wants when it subpoenas their patients’ dental records to help make an identification. It also helps hammer home the importance of detailed record keeping.”

He says the class is also a way to find out if any students may be interested in this important work. “Though I spend nearly 100 percent of my time practicing general dentistry, forensic dentistry is a fascinating area that I’ve had the privilege to explore,” says Dr. Mitchell.

INSPIRED BY IMPORTANT CASES

His experience in that field stems from his role as forensic odontologist for the Monroe County (New York) Office of the Medical Examiner (OME), a position he’s held since 2009.

“I became interested in forensic odontology in the late 1990s and took as many continuing education courses as I could,” explains Dr. Mitchell. “September 11, 2001 inspired me to make forensic odontology more than an interest. I saw the important work dentists did to help identify the victims of that tragedy.”

He took the Armed Forces Institute of Pathology courses in forensic dentistry and forensic anthropology. When the Wayne County Sheriff’s Department asked him to look at dental records of a missing person and work up a dental profile to help in her identification, his motivation grew. After speaking with the forensic odontologist on staff at the time, he was called in to help identify a murder victim and began assisting the OME on a regular basis.

“The OME allows me to teach using my actual casework, as long as the story of the case is changed to protect the identity of the deceased,” says Dr. Mitchell. “I’m involved in various forensics organizations to further my education. And, I lead a lecture on forensic odontology at S.U.N.Y. at Potsdam each year.”

He says the greatest impact of this work is providing identifications of decomposed, burned, or severely traumatized bodies. Teeth remain intact in harsh conditions and vary from person to person. Dental identifications give victims’ families closure. And, bodies of murder victims must be positively identified in order for suspects to be charged.

DEVOTED TO DENTAL EXCELLENCE

Dr. Mitchell says the selective courses at Penn Dental Medicine, like the forensic dentistry course he teaches, allow students to explore new areas of dentistry and pique interests that may not otherwise develop.

“There are many avenues that we, as alumni, can provide to help in the great education process Penn Dental Medicine provides its students.”

— DR. RANDOLPH MITCHELL (D’81)

“We received an education that is second-to-none at Penn Dental Medicine,” he adds. “I always tell my wife that Penn taught me how to think. We didn’t learn a set of cookbook steps for dentistry. We learned about treatment goals, and techniques were ways to achieve our goals. I think of the number of techniques that have come and gone since I graduated and know that the thinking background Penn gave us helps us to continuously evaluate and improve our treatments and methods.”
Dr. Mitchell’s own passion for dentistry comes from a positive experience he had as a child. “I didn’t smile much as a young person, but my orthodontist made my smile great, and I came to like the environment of the dental office,” he explains. “I originally planned on specializing in orthodontics but preferred private practice for the variety of things we do on a daily basis.”

Post-graduation, Dr. Mitchell first worked in Northeast Philadelphia before practicing with class of 1956 alumnus Dr. John Maliniak in King of Prussia. In 1983, he bought a practice in Lyons, New York, from its retiring dentist and has practiced there for more than 32 years.

And Dr. Mitchell is thrilled to have maintained strong connections to Penn Dental Medicine. “There are many avenues that we, as alumni, can provide to help in the great education process Penn Dental Medicine provides its students,” he says. “Interaction with students who will be the dentists of tomorrow is very rewarding and a small price to pay forward for the benefits we’ve received.”

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**Bio-Dental Program Seeking Alumni to Interview Applicants**

FOR THOSE UNDERGRADUATE college applicants who have already made the decision to pursue a dental career, Penn Dental Medicine’s Bio-Dental program affords them the opportunity to complete their undergraduate training in just three years, matriculating to Penn Dental Medicine after their junior year in college. The Bio-Dental program works with five undergraduate schools, including Penn’s College of Arts and Sciences.

The Penn Alumni Interview Program has created a Bio-Dental Committee to assist with the interview process of Bio-Dental program applicants. The Committee is being led by Dr. Alyssa Greenberger (D’02), a member of the Penn Dental Alumni Society Executive Committee.

The Bio-Dental Committee is seeking Penn Dental Medicine alumni interested in interviewing both domestic and international applicants via Skype or FaceTime. “Our goal is to have Penn Dental alumni interview 100% of the Bio-Dental applicants, as these are our future colleagues,” says Dr. Greenberger.

To become part of the program, alumni can register online at [www.alumni.upenn.edu/interviews-join](http://www.alumni.upenn.edu/interviews-join). To be added to the Bio-Dental Committee, alumni must write “Please add me to the Bio-Dental Committee” in the “Comments” box at the bottom of the registration form. Any alumni already registered to conduct interviews who would like to join the Bio-Dental Committee should email the request to [interviews@lists.upenn.edu](mailto:interviews@lists.upenn.edu).

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**Resources to Stay, Get Connected**

- **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. Visit [www.myquakernet.com/dental](http://www.myquakernet.com/dental).
- **Find a Penn Dentist**: Find a Penn Dentist, located prominently on the Penn Dental Medicine website, allows visitors to the site to search a directory of Penn Dental Medicine alumni practices by city/state, zip code, or specialty. Register at [www.dental.upenn.edu/map](http://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](http://www.dental.upenn.edu/careers).
- **Social Media**: 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 alumni and current students).
A MULTIFACETED CLINICAL LEADER

NEW ASSOCIATE DEAN FOR CLINICAL AFFAIRS DR. NAJEED SALEH (D’94) BRINGS YEARS OF PRACTICE AND RESEARCH EXPERIENCE — AND A LIFELONG LOVE OF TEACHING — TO THE CLINICAL TABLE

DR. NAJEED SALEH, a respected member of Penn Dental Medicine’s faculty for more than a quarter century, has been named Associate Dean for Clinical Affairs, bringing years of invaluable experience in dentistry, particularly his specialty of prosthodontics, to the education, training, and growth of Penn Dental Medicine students. As of March 1, Dr. Saleh, who previously ran the restorative clinics as Director of Comprehensive Care Clinics, now oversees all operational aspects of the School’s restorative, pediatric, periodontal, oral medicine, oral surgery, endodontic, and orthodontic clinics. It is a complex, interdisciplinary position well suited to his comprehensive background in dentistry.

AN EARLY APPRECIATION FOR DENTAL ARTISTRY

Dr. Saleh’s journey as a dentist began in Israel, where he was born, and, at age 18, enrolled in the dental education program at Hebrew University. “I was always interested in contributing to the well-being and health of others,” he remembers. A strong science student, he chose dentistry because of a fascination with the technical skills and artistry it required. He earned his DMD and then a certificate in Prosthodontics and was named a Diplomate on the Israeli Board of Prosthodontics.

With his career in full swing, and after two years as a Research Fellow at the Weizmann Institute of Science in Israel, Dr. Saleh took a sabbatical to the United States in 1990. The Hebrew University School of Dental Medicine has a long history of faculty and ideas exchanges with Penn Dental Medicine, and Dr. Saleh was excited to observe the clinical process and discuss mutual interests with the clinical teams here at Penn. Dr. Saleh joined the School’s faculty in 1990 as a visiting assistant professor and after experiencing Penn Dental Medicine’s
research, clinical, and educational climate, he made an important decision: he would become licensed to practice in the U.S. through Penn Dental Medicine’s Program for Advanced Standing Students (PASS, see related story, page 18) and continue his career in America. He earned his DMD through PASS in 1994.

**DIVERSITY OFFERS UNIQUE PERSPECTIVES**

Dr. Saleh appreciated the uniqueness of Penn Dental Medicine’s program on that first visit and continues to do so now. Having programs in all of the dental specialties under one roof enables Penn Dental Medicine to provide comprehensive care to patients and comprehensive experience to students.

“Our students are exposed to a faculty of highly diverse backgrounds, which allows them to experience very different points of view related to patient care,” he says. Through standardization of the teaching process, students are taught different approaches, while maintaining the highest standards and quality of care.

Dr. Saleh also values the perspective and experience that the urban demographics of University City and West Philadelphia contribute to a Penn Dental Medicine education. “Our students have the opportunity to work with a diverse patient population relative to many parameters — race, ethnicity, economics, and various levels of medical and dental complexity,” says Dr. Saleh. “Our unique situation here also allows us to provide dental care to those who otherwise would not have access to it due to financial issues.” All of these experiences, he believes, work together to make Penn Dental Medicine graduates well-rounded and compassionate.

He praises the School’s community outreach program as well, noting that the Division of Community Oral Health, which oversees the PennSmiles mobile dental program and participation in West Philadelphia’s Sayre Clinic (run by Penn Medicine), serves as a national model for bringing dental care to the underserved.

**LONG- AND SHORT-TERM GOALS**

In his new role, many of Dr. Saleh’s long-term goals for the clinics include communication, standardization, and increases in patient enrollment and retention. He plans to increase regular interaction and dialogue among the clinics and departments to ensure that protocols are being followed uniformly; improve communications between dental students/faculty and patients so that the highest level of decision making can occur; and standardize the work flow related to patient care, so that every patient receives the best, most efficient care possible. Through it all, he aims to sustain the highest levels of education that have become synonymous with Penn Dental Medicine.

It’s a tall order, and one he plans to tackle thoroughly and systematically. First on his agenda, however, is a short-term goal that itself offers its own challenges: implementing the transition of all seven clinics to new electronic health records (HER) software, axiUm, which will require significant training of
A DEEP LOVE OF TEACHING

While Dr. Saleh enjoys every aspect of his new job, from the challenges of overseeing multiple clinics with varied functions, to the transition to new technology and his ongoing practice and research in prosthodontics, teaching has always held a special place in his heart, and always will. He remains on the clinical instructional faculty in the School’s William W.M. Cheung Advanced Dental Care Clinic for advanced restorative and esthetic dentistry. He is also involved in lecturing to dental students in the implant dentistry, operative dentistry, fixed prosthodontics, and introduction to clinical dentistry courses.

“It’s extremely exciting to meet new generations of students every year and be able to influence their development and transform them into professional, competent dentists,” he says.

He also values the interaction with other faculty members that comes with teaching: “Interaction with my colleagues allows us to have intellectual discussions, exchange experiences, and share knowledge.”

And finally, he enjoys the diverse population of patients he has the opportunity to meet, serve, and learn from through his students.

“I love everything about teaching,” says Dr. Saleh. “I will never give it up.”

— By Juliana Delany

THE CHALLENGE AND COMPLEXITY OF PROSTHODONTOICS

As a young dentist in Israel, Dr. Saleh was drawn to the specialty of prosthodontics because of the advanced knowledge and skill levels it required. He still enjoys the challenge of practicing prosthodontics today, seeing patients within the School’s Penn Dental Family Practice.

“The satisfaction is enormous,” he says. “Working with dentally disabled patients and restoring them to full dental function and esthetics so that they can continue with the quality of life they deserve is incredibly rewarding.”

He enjoys the interdisciplinary nature of the work as well. “The prosthodontist is often the quarterback of an interdisciplinary treatment team that can include periodontists, orthodontists, endodontists, oral surgeons, and lab technicians,” he says. “Together, they work to bring about optimal outcomes.”

The field of prosthodontics is constantly changing, he adds, with new materials, such as Zirconium oxide, and hybrid ceramics, constantly being introduced and the use of CAD/CAM technologies continually evolving. There are also new techniques being developed to apply to older materials such as alloys, and the ongoing challenge of applying new digital processes to procedures.

Dr. Saleh’s own research interests, related to clinical research and dental materials, fall right into line with the trends in prosthodontics. He is particularly interested in newer techniques for ceramic bridge restorations, including the implementation of new CAD/CAM processes involving Zirconia-based restorations.

“Working with dentally disabled patients and restoring them to full dental function and esthetics so that they can continue with the quality of life they deserve is incredibly rewarding.”

— DR. NAJEED SALEH (D’94)

ABOVE: Dr. Najeed Saleh discussing a case with student Jinah Kang (D’16) in the William W.M. Cheung Advanced Dental Care Clinic where he continues to teach.

A NEW SOFTWARE SYSTEM

The software we were using previously was geared to private practice, not to dental education,” he explains. “Because axiUm is built in educational parameters related to overseeing students, it will streamline and simplify the operation of the clinics considerably.” Dr. Saleh estimates that 84% of dental schools nationwide are now using axiUm, so the transition will result in a critical technology upgrade, bringing Penn Dental Medicine in line with teaching clinics across the country. Training by the axiUm team is underway, and Dr. Saleh hopes that the new software will be up and running by fully trained faculty and students by July.

“The satisfaction is enormous. Working with dentally disabled patients and restoring them to full dental function and esthetics so that they can continue with the quality of life they deserve is incredibly rewarding.”

— Dr. Najeed Saleh (D’94)
1940s

H. Martin Deranian (D’47) was a featured guest speaker at the theatrical production of ‘Daybreak’ by Joyce Van Dyke — a play based on the true story of two survivors of the Armenian Genocide, one of whom was his mother.

1950s

Ann Hunnicutt (DH’53) spent time in California starting a local SPCA in Davis, Calif., and writing books; she now enjoys her life in Fort Myers, Fla., with her cat, Mr. Frazier.

Robert Spilker (D’59) reports that retirement in Florida is paradise! He is enjoying watching his children and grandchildren achieve their own dreams.

1960s

Arnold Weisgold (GD’65) was named an honorary member of the American College of Prosthodontics and was inducted during the 45th Annual Session of the ACP.

Alex Hochheiser (C’64, D’67) recently published two additional novels The Smiling Budda and XC 500 under the pen name, Alex Heiser. Both are available on Amazon Kindle.

1970s

Kenneth A. Fetter (C’72, D’76) was inducted as a Fellow in the American College of Dentists during the ADA meeting in Washington, DC. He also invites all classmates from the Class of ’76 to celebrate their 40th Reunion during the weekend of May 13–15, 2016! His wife, Carol (DH’75) just marked her 40th Reunion at the University of Pennsylvania.

Ronald Rupp (D’76) retired at the end of 2015 as ADEA’s Senior Vice President for External Relations and Institutional Advancement after more than seven years of service. He was awarded the “Distinguished Service Award” by the ADEA Board of Directors during this year’s Opening Plenary Session on March 13.

Steven Rothenberg (D’78) was honored by the American College of Prosthodontists with the Private Practice Award for Northeast Region 1 at the 45th Annual Session in Orlando, Fla. (Editor’s note: Dr. Rothenberg’s name was misspelled in the Fall 2015 issue; we apologize for the error.)

1980s

Barry Cohen (C’76, D’80) served as the Continuing Education chair for the 2015 ADA meeting held in Washington DC, November 5–10. Dr. Cohen recruited several Penn Dental Medicine alumni to speak as well as assisted with the Penn Dental Medicine Alumni Reception, which had a record number of attendees.

James Hudson (D’82) organized a gathering of more than two dozen Penn Dental Medicine graduates from the New York City area during the February 11 meeting of the New York Academy of Dentistry. More than 150 members and guests enjoyed remarks by Dean Kinane and a presentation by Dr. Syngcuk Kim, Associate Dean for Global Affairs.

Ira (D’83) and Karen (C’82, D’85) Rosen celebrated the marriage of their daughter Hillary Rosen (D’15) to Joe Khodari (V’13) on November 1, 2015.

Randy Mitchell (D’81) is sharing his Penn pride with new granddaughter, Loren.

Find a Penn Dentist

With alumni practices listed worldwide, Find a Penn Dentist offers a unique and interactive platform for potential patients – or fellow colleagues – to search for practices in their area or by specialty.

Penn Dental Medicine alumni are invited to list their practice(s) on the interactive map for free; however, opt-in is required. To list your practice today, visit www.dental.upenn.edu/map and follow the instructions under “Attention Alumni” or follow the step-by-step directions listed on the back of this card.

WWW.DENTAL.UPENN.EDU/MAP
Lee Durst (D’83), Hope Berman (C’77, D’83) and Eric Spieler (D’84) enjoyed dinner with family before attending the Penn Dental Medicine networking reception at the Union League.

Jeffrey Sibner (D’83, GD’84) published a CE course with PennWell Publishing. The course titled “The Evolution of Matrix Systems for Composite Restorations” is available online at IneedCE.com.

Robert A. Levine (GD’84) and Harry Randel (D’83) have jointly taken the top prize in a national case study contest sponsored by Straumann Pro Arch. Their winning case study, “The Team Approach in a Complete Mouth Pro Arch Hybrid Reconstruction Using the Indirect Method for Provisionalization,” will be featured in an upcoming edition of TARGET.

Jeffrey Sibner (D’83, GD’84) published a CE course with PennWell Publishing. The course titled “The Evolution of Matrix Systems for Composite Restorations” is available online at IneedCE.com.

Robert Gurmankin (D’84) and Howard Lassin (D’85) traveled on a mission trip with MEDICO, an organization that provides healthcare and educational services to communities in Honduras and Nicaragua. This mission’s 15-member team of physicians, dentists, nurses, an optometrist, a pharmacist, and support staff came from the U.S., Canada and Honduras. The mission site was in the mountain village of Taragual, Lampira, where a dental clinic was set up with portable dental chairs. In five days, 254 patients received dental care, including 510 extractions and 53 restorations.

Gregory French (D’85) was named one of the Top Dentists in Central New York by CNY Magazine.

Stephen Howarth (D’85) celebrated the marriage of his son Stephen Howarth (D’16) to Nicole Morgan this summer in Harrisburg, PA.

Board of Overseer member Umit Yigit (C’81, D’86) and wife Serap Yigit opened a new office in Boca Raton, FL in February 2016.

2000s

Benedict Bachstein (D’07, GD’08) and wife Melissa Bachstein (GD’09) welcomed their second child, Alessia, in February 2016.

Bradley Schnebel (D’08) is proud and excited to announce the opening of his new orthodontic practice, Westchester Family Orthodontics, in Harrison, N.Y.

1990s

Luis Johnny Fujimoto (D’90, GD’93) has been re-appointed Chairman of the New York State Board for Dentistry for the New York State Education Department, Albany, N.Y.

Bernard J. Costello (D’94, M’97, GD’00, RES’00) was recently promoted to Associate Dean for Faculty Affairs at the University of Pittsburgh School of Dental Medicine. He has been serving as Chief of Pediatric Craniofacial Surgery, Program Director, and Professor in the Department of Oral and Maxillofacial Surgery. Dr. Costello was also elected Vice President of the American Academy of Craniofacial Surgery and Vice President Elect of the American Cleft Craniofacial Association.

Laurene Marks-Wolf (D’94) was honored as a 2016 Outstanding Woman in Somerset County. She and her team are actively involved and committed to community service and charitable causes. In 2008, Dr. Wolf established Giving Smiles Foundation, a non-profit organization that supports the local community.

Marc Ackerman (D’98) visited campus in February and got a behind-the-scenes look at the Evans Building renovation. One of Dr. Ackerman’s many contributions to the profession is working to improve the understanding of oral health concerns of individuals with cognitive or physical disabilities. He is currently serving as the editor of the Special Care Dentistry Journal.

Jeffrey Rodney (D’89) visited campus to lecture to students and faculty as part of the School’s “Restorative Lecture Series” this January. While here, he took a tour of the School and posed with Dr. Evans and his carriage.

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IN MEMORIAM

REMEMBERING MEMBERS OF THE PENN DENTAL MEDICINE COMMUNITY

Hardin King Davis (D’41)
Mount Pleasant, SC; November 20, 2015

David J. Kennedy (D’41)
Palm City, FL; December 16, 2015

Irwin Honigfeld (D’41)
Verona, NJ; January 5, 2016

Clarence E. Gingras, Jr. (D’43)
Palm Beach Gardens; November 3, 2015

Benjamin L. Spector (D’44)
Carnation, WA; November 26, 2015

Emmett R. Costich (D’45)
Lexington, KY; October 1, 2015

Richard L. Bardsley (D’45)
Garnett, KS; December 31, 2015

Richard S. Landes (D’46)
Orange, NJ; January 1, 2016

Irving J. Alper (D’47)
Millburn, NJ; September 25, 2015

William C. Miller (D’47)
Greenwich, CT; October 16, 2015

Betty Rowe Horner (DH’47)
Montross, VA; October 30, 2015

Robert C. Everhard (D’50)
Mechanicsburg, PA; January 16, 2016

Robert J. Disney (D’51)
Manheim, PA; November 28, 2015

Thomas Conner, Jr. (GD’52)
Atlanta, GA; October 11, 2015

Alvin H. Simonson (GD’53)
New London, CT; August 3, 2015

Seymour Oliet (D’53)
Pompano Beach, FL; August 26, 2015

Richard G. Commons (D’53)
Jensen Beach, FL; September 13, 2015

William C. Stavrides (D’53)
Audubon, PA; October 21, 2015

Betty Smith Meador (DH’53)
Miami Lakes, FL; November 19, 2015

Carl M. Ostergaard (D’54, GD’59)
Rehoboth Beach, DE; January 28, 2016

Bruce G. MacKenzie (D’55)
Pompton Plains, NJ; June 18, 2015

A. R. Rosamilia (D’55)
Ocean, NJ; September 15, 2015

Deo Rhodes Boyland (D’55)
Lexington, VA; January 16, 2016

Arthur B. Hattler (D’55, GD’57)
Wynnewood, PA; October 17, 2015

James H. Preston (D’56)
Jacksonville, FL; July 26, 2015

Ellsworth H. Plump (D’57)
Farnham, VA; December 11, 2015

Esther G. Kaliff (DH’57)
Melville, NY; February 8, 2016

Quentin E. Lyle (D’58)
Princeton, NJ; October 7, 2015

Murray J. Plishtin (D’58)
West Orange, NJ; February 15, 2016

Richard Esmay (D’59)
Naples, FL; March 27, 2016

Philip F. Cerveny, Jr. (D’61)
Gilford, NH; October 11, 2015

Charles J. Courtenay (D’62)
Orlando, FL; January 21, 2016

Richard M. Feingold (D’62)
Woodbridge, CT; July 10, 2015

Samuel J. McNeill (D’64)
West Palm Beach, FL; August 27, 2015

James N. Showstack (D’64)
Lexington, MA; September 16, 2015

Billy C. Dorminy (GD’64)
Waycross, GA; January 28, 2016

Deena Alani (D’13) and husband Wessam Alani (D’13) prepare to open their family practice this spring in Chattanooga, Tenn.

Jeff Li (D’12), who earned his Certificate in Periodontics from the University of Michigan in 2015, has joined Perico Dental in Boston. Jeff is thrilled to be with the practice and hopes to see more PDM alumni at the next gathering in Boston.

Jack M. Tsai (D’09) recently joined the Penn Dental Family Practice at Locust Walk.

Joy Hicks (D’10) welcomed her daughter, Autumn Grace Hicks, on February 27, 2016 at 1:03am weighing 6 lbs 11oz and 20 inches long. This is their first child.

Caleb Cross (D’11 GD’15) joined the Amsterdam Dental Group and is currently seeing patients in Philadelphia and Paoli. Dr. Cross joins fellow alumni Harold Baumgarten (D’77 GD’82), Howard Fraiman (D’91 GD’93 GD’94) and Jeffrey Ingber (GD’71, GD’72).

Jeff Li (D’12)
2016 CALENDAR

UPCOMING EVENTS & PROGRAMS

MAY

MAY 12, 2016
Penn Dental Medicine Research Day
Philadelphia, PA

MAY 13-15 2016
Alumni Weekend 2016
Penn Dental Medicine

MAY 16, 2016
Commencement 2016
Irvine Auditorium, University of Pennsylvania

MAY 20, 2016
Pennsylvania Dental Association Meeting
Hershey, PA

JUNE

JUNE 8, 2016
Hygiene Reception at the ADHA CLL
Pittsburgh, PA

JUNE 29, 2016
GRD Lab Farewell
Penn Dental Medicine

AUGUST

AUGUST 15, 2016
White Coat Ceremony: Class of 2020
Annenberg Center, University of Pennsylvania

SEPTEMBER

SEPTEMBER 10-11, 2016
CDE: Penn Endodontic Global Symposium
Tokyo, Japan

SEPTEMBER 10-13, 2016
American Academy of Periodontology Annual Meeting: Penn Dental Alumni Reception
San Diego, CA

SEPTEMBER 18-23, 2016
American Association of Oral & Maxillofacial Surgeons Annual Meeting: Penn Dental Alumni Reception
Las Vegas, NV

SEPTEMBER 27, 2016
CDE: Alumni Lecture Series Featuring Anne Koch, D’77, GD’93
Penn Dental Medicine

OCTOBER

OCTOBER 7-9, 2016
Academic Review of Endodontology
University of Pennsylvania

OCTOBER 18, 2016
Alumni/Student Networking Event & Career Fair
Location: TBD

OCTOBER 22, 2016
CDE: Dental Public Health Review: Oral Health Integration with Healthcare
Penn Dental Medicine

OCTOBER 24-28, 2016
CDE: Penn Week Orthodontics 2016 — The State of the Art
University of Pennsylvania

OCTOBER 28, 2016
CDE: Celebrating 100 years of Penn Orthodontics: 63rd Annual Ortho Alumni Day
Union League of Philadelphia

NOVEMBER

NOVEMBER 2016
Dual-Degree Program Luncheon
Philadelphia, PA

NOVEMBER 12, 2016
CDE: Bone Biology and its Impact on Periodontics and Implantology
Beijing, China

NOVEMBER 18-19, 2016
CDE: Nitrous Oxide/Oxygen Analgesia Certification Course
Penn Dental Medicine

NOVEMBER 28, 2016
Greater New York Dental Conference: Penn Dental Alumni Reception
The Penn Club, New York, NY

NOVEMBER 28, 2016
Young Alumni After Party
Stout Mid-Town, New York, NY

COMING IN 2017 — PLAN AHEAD

JUNE 16-17, 2017
2nd Biennial Meeting of the International Academy for Adhesive Dentistry
Penn Dental Medicine

JUNE 25-30, 2017
Penn Periodontal Conference 2017
Penn Dental Medicine

Learn More...

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).
CELEBRATING 100
YEARS OF PENN ORTHODONTICS | 1916-2016

PENN ORTHO ALUMNI DAY
October 28, 2016
Union League of Philadelphia
www.dental.upenn.edu/orthoalumniday

This year’s J. Henry O’Hern, Jr. Alumni Day lecture will be delivered by Dr. Raymond Fonseca and Dr. Timothy Turvey.

LOOKING AHEAD:
2017 CDE

2nd Biennial Meeting of the International Academy for Adhesive Dentistry
JUNE 16-17, 2017
Penn Dental Medicine
Philadelphia, Pennsylvania

Penn Periodontal Conference 2017
JUNE 25-30, 2017
University of Pennsylvania
School of Dental Medicine
Philadelphia, Pennsylvania

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.

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