

Annual Report



July 1, 2012–June 30, 2013



**DEAR ALUMNI AND FRIENDS,
Throughout the calendar year of 2013, the Boston University Henry M. Goldman School of Dental Medicine (GSDM) celebrated the 50th Anniversary of its founding by Dr. Goldman in 1963.**

The festivities began with a kick-off Alumni Reception on Friday, February 1, at our annual reception held during the 2013 Yankee Dental Congress in Boston. Then, throughout the year, 50th Anniversary Alumni Receptions were held across the country and the globe.

This has been a tremendous year and we continue to make remarkable progress as we implement our Applied Strategic Plan (ASP). You will read about all of the exciting momentum in this annual report as to our accomplishments in providing pre- and post-doctoral education, oral health to the patients we have the privilege of treating, ground-breaking research, service to our community, and global initiatives. I do, however, want to make special note of two very important initiatives that are already having an impact on the way we educate our students and treat our patients, and in so doing, distinguishing our School as a leader of innovative dental education.

- In support of Goal 2 of our ASP: "provide excellence in lifelong dental education and scholarship," we are well into the transition to the patient treatment center reorganization. Since joining our GSDM faculty on November 1, 2012, as Director of the Group Practice Experience and Team Leadership, Dr. David Russell, working closely with Associate Dean for Clinical Affairs Dr. John Guarente has been providing leadership in the development, implementation, and sustainability of vertically integrated teams within group practices that have designated spaces, staff, faculty, and pre-doctoral students and post-doctoral residents. The group practice model is creating a sense of continuity of care for our patients within a patient-centered clinical education construct for faculty-guided, student-provided, high-quality oral health care.

- A Task Force to Implement Digital Dentistry was established in May 2013. Chaired by Dr. Russell Giordano, Director of the Division of Biomaterials, the Task Force was charged with determining the necessary facilities, equipment, and support required to create a seamless all-inclusive digital patient record to facilitate comprehensive treatment planning and efficient delivery of oral health care at the highest quality of care using digital dental technologies. As GSDM continues the implementation of the Group Practice Model into our clinical education and patient care, the Task Force will concentrate on areas of interest such as: Digital Patient Records; Restoration and Fabrication of Provisional Restorations; Permanent Inlays, Onlays, Veneers, Crowns, and Three-Unit Prostheses using Digital Technologies; a Centralized Prosthetic Laboratory Facility; and the Creation of a Mobile Dental Office as a Means of Providing Oral Health Care to Those Patients Unable to Reach a Dental Office, Community Health Center, or our own School of Dental Medicine.

I am very proud of the overall progress we have made in implementing our Applied Strategic Plan, and the above two initiatives will revolutionize operations at GSDM. In addition, planning for our new facility continues to move forward, and we hope to be able to share definitive plans with you soon. Once those plans are approved, our work to fund the new facility will begin in earnest. Your support will be critical to our ability to transform our School as we Choose to be Great and in so doing we realize my and what I hope is now your vision for the Boston University Henry M. Goldman School of Dental Medicine becoming the premier Center of Excellence in Oral Health Education, Research, Patient Care and Community Service in this nation and the world.

Sincerely,

JEFFREY W. HUTTER, Dean



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OVERVIEW

A Momentous Commencement in GSDM's 50th Anniversary Year

On Friday, May 17, 2013, Boston University Henry M. Goldman School of Dental Medicine (GSDM) held the School's 49th annual Convocation at the Walter Brown Arena. Approximately 190 DMD and 80 post-doctoral students were honored and awarded degrees.

Before beginning the commencement program, Dean Jeffrey W. Hutter took a moment to reflect on the April 15, 2013, Boston Marathon bombings. He expressed pride in the GSDM community for joining fellow Bostonians in prayer for victims and families and for standing ready to help their neighbors in any way they could. He expressed special gratitude to the Oral & Maxillofacial Surgery Faculty, staff, and residents who provided triage and care to the wounded that were brought to Boston Medical Center.

Said Dean Hutter: "We as a University and a School of Dental Medicine are Boston Strong, and Kathy and I could not be more proud of how you and your colleagues who may not be here with us this afternoon reacted and coped with this horrific event and its aftermath."

Dean of Marsh Chapel Reverend Dr. Robert Allan Hill began the ceremony with an invocation.

Following the invocation, Dean Hutter addressed the Class of 2013, noting that this year's Commencement holds special meaning, occurring during the 50th Anniversary of the founding of the School: "I have watched you and your classmates

grow into confident, competent dental and oral health care professionals and I am delighted to share this special occasion with you. You should feel very proud to be a member of such a prestigious graduating class." Dean Hutter continued:

Shortly, when you walk across this stage and receive your Boston University Henry M. Goldman School of Dental Medicine Diplomas and Certificates, know that they are symbols of both your dedication over the course of your academic careers and your commitment to the future of our dental profession.

Valedictorian of the DMD 2013 Class Hilary Linton addressed the audience of approximately 2,000. Linton said that, having interacted with most of the GSDM community gathered at Commencement, "I truly feel like I am part of a dynamic family made up of individuals who will be there for me and support me throughout my career—a career that can take so many possible directions and one I am truly thrilled to be starting."

To her class, Linton said:

Let me be the first person to congratulate you today. I feel incredibly honored to be a part of the graduating class of 2013. GSDM was the first school in the country devoted solely to specialty education in dentistry. It has a rich and impressive history and we will strive to continue that legacy.

Linton also took time to thank the faculty, patients, family, and friends.

The Spencer N. Frankl Award for Excellence in Teaching was presented during the ceremony to outstanding faculty member Dr. Richard D'Innocenzo, who is clinical associate professor and director of pre-doctoral education for the Department of Oral & Maxillofacial Surgery as well as vice chairman of Dentistry and Oral & Maxillofacial Surgery for Boston Medical Center.

Dr. Jeanne Craig Sinkford delivered the Commencement address. Dr. Sinkford is senior scholar-in-residence in the Office of the President and CEO of the American Dental Education Association (ADEA) as well as professor and dean emeritus of Howard University College of Dentistry. In 1975, Dr. Sinkford became the first female dean of a dental school when she was appointed dean of Howard University College of Dentistry. She works with the ADEA to develop and implement policy in dentistry involving gender and minorities. Dr. Sinkford has been on the GSDM Dean's Advisory Board since 1981.



(l-r) Dean Jeffrey W. Hutter, Layeeq Ahmed AS 13, brother Dr. Shafeeq Ahmed, niece Zaara, and nephew Kaashif

Sinkford first extended her congratulations to the Class of 2013. She expressed her feeling of kinship with GSDM and respect for the qualities that mark GSDM as unique among dental schools; in its commitment to research, expansion of community service, and educational transformation.

In her speech Sinkford also discussed both the current state of dentistry and the future of the profession. She talked about the continuing need for better oral health care for Americans and how the coming advances in scientific research and discovery, such as genomics and stem cell research, will transform the way they practice.

Sinkford offered this advice to the graduates:

In your personal lives your patients will now call you “doctor” and doctor means “healer,” it also means “teacher.” You will find in your practice that “wellness” is a partnership between doctor and patient and that each has a role in lifelong health and wellness.

Sinkford closed by saying: “Believe me—There are no shortcuts to anyplace worth going and to those whom much is given, much is required.”

Following Dr. Sinkford’s Commencement address, DMD Class President Joshua T. Quinby and AS Class President Manu Sharma presented the 2013 Class Gift on behalf of their classes. The Class Gift Campaign is an annual, student-driven tradition at Boston University. While students could give in any amount, the suggested donation was the symbolic amount \$20.13.

The GSDM 2013 Class Gift was presented with special pride and enthusiasm: The DMD and AS classes won the University-wide Class Gift Competition, ultimately reaching 100% participation.

The total amount donated by the Class of 2013 was \$3,743.92, which will go to GSDM community outreach, elective externships, and student scholarships. Alumni Board President Dr. Mitch Sabbagh DMD 87 generously matched the donation. In addition, on the night of the Goldman Gala on May 3, Dr. David Lustbader DMD 75, Chair of the Dean’s Advisory Board and Dr. Ronald Weissman PROS 77, CEO and Founder of Gentle Dental Associates and a valued member of the Dean’s Advisory Board, also matched the Class of 2013 gift. The total gift was an impressive \$14,975.68.

The post-doctoral and pre-doctoral graduates of 2013 then each made the significant trip to the stage to receive their diplomas and Certificates of Advanced Graduate Study.

Once the students had received their diplomas, Dean Hutter led the graduates in reading the Oath of the Classes.

Symbolic of the graduates’ new status as alumni within the GSDM family, Dean Hutter invited GSDM Alumni Association President Dr. Mitchell V. Sabbagh DMD 87 to the stage to welcome the graduates to the Alumni Association. Sabbagh first acknowledged Dean Hutter for his support of the Alumni Association and for his leadership. Sabbagh continued:

This special day of celebration during the 50th Anniversary of our School marks the completion of your studies here, but more importantly, it cements our relationship as we officially welcome you as our Alumni. Our alumni association, like your family, is here to help you embark on an exciting future that, one the one hand you’re ready for, but also from which you don’t fully know what to expect.

Sabbagh concluded:

Though you will be leaving our hallowed halls and though it may be bittersweet, please know that the family that is your Alumni Association now welcomes you with open arms and an open heart. Welcome, new alumni!

Dean Hutter then made his final remarks. He took a moment to thank the faculty and staff of GSDM along with the families and friends for their support of the graduates.

He gave the following advice to the graduates: “Cherish your education and your profession and measure success not by the amount of money you earn, but rather by the contribution you make to your family, your profession, your patients and your community.”

Dean Hutter then thanked Reverend Hill for his leadership and support through the recent trying and troubling times for Boston University. Reverend Hill then delivered the benediction.

Graduates, guests, and members of the GSDM community proceeded to a reception, where they celebrated their achievements over refreshments and appetizers.

And with that welcome, the graduates commenced—first to continued celebrations of their achievement and then on to their continuing education and dental health careers.

BU-Dubai Dental Collaboration Ends: Institute Graduates Second and Final Class

The Boston University Institute for Dental Research and Education–Dubai (BUIDRE), which in June 2012 graduated its second and final class of residents, has ended operations. It will be replaced by the Dubai School of Dental Medicine, a Dubai-led dental school within an overall academic health-care center.

BUIDRE, a collaboration between the Boston University Henry M. Goldman School of Dental Medicine (GSDM) and a comprehensive Dubai healthcare complex, was launched in 2008. The mutual decision to discontinue the venture, reached after Dubai authorities proposed a structure in which they would primarily manage their own institution, will allow the Dubai School of Dental Medicine to build on the efforts to create capacity in Dubai for world-class post-doctoral dental specialty programs.

BUIDRE operated within the Academic Medical Center (AMC) at Dubai Healthcare City (DHCC), a free-trade zone of medical facilities and offices, was developed to attract investment to the Emirate of Dubai and to create a globally renowned academic medical campus. BUIDRE's aim was to improve dental care and education in the Middle East. The institute educated dental school graduates in an array of specialties.

BUIDRE's two classes had 27 graduates, all but 2 of whom are practicing in Dubai, the United Arab Emirates, and the Gulf region. The other two graduates are pursuing further studies at GSDM.

Drs. Ferriero and Sarkis Receive Awards from The Academy of General Dentistry

The Academy of General Dentistry (AGD), a professional association of more than 37,000 dentists dedicated to providing quality dental care and oral health education to the public, held their 2012 Annual Meeting & Exhibits on June 21 to 24, 2012, in Philadelphia. Two Boston University Henry M. Goldman School of Dental Medicine (GSDM) faculty members were honored at the conference. Clinical Associate Professor Dr. Mark Ferriero earned the 2012 Lifelong Learning & Service Recognition (LLSR) award and Assistant Professor Ramzi Sarkis DMD 02, ENDO 05, MSD 08, received the association's 2012 Fellowship Award.

Dr. Ferriero received the LLSR award for the second time. Since its inception in 2005, only nine AGD members have earned the LLSR recognition twice.

Alum Returns as New Director of Diversity & Multicultural Affairs

New Director of Diversity & Multicultural Affairs Dr. Larry Dunham joined GSDM on July 1, 2012, after an extensive national search.

Dr. Dunham develops and implements strategies and programming to strengthen the diversity of the applicant pool and facilitate enrollment of eligible, highly qualified students who reflect the diversity of the general population.



Dr. Larry Dunham

He encourages success and retention of enrolled students and nurtures interest in and preparation for dental school education in Pipeline populations. Pipeline populations include underrepresented minorities and economically disadvantaged students.

He also coordinates advising, retention, and outreach-related services to both current and prospective students with a focus on underrepresented minority populations.

Dr. Dunham reports to Assistant Dean for Admissions Ms. Catherine Sarkis and works closely with Assistant Dean of Students Dr. Joseph Calabrese.

Dr. Dunham received a DMD from GSDM in 1983. He also holds a bachelor's degree from the University of Massachusetts, Amherst. He served as an Operative Instructor at GSDM from 1984 to 1998. He has been an APEX preceptor for GSDM since 1999 in his Cambridge office, which he has operated since 1987.

In 1990, he received the Black Achiever Award from the Boston Medical Center and the Greater Boston YMCA. In addition to his US license, he holds a long-term dental license to practice in Barbados, West Indies.



Photo courtesy of E2Ewebsite

Dr. Dunham has extensive experience with the National Dental Association (NDA). He previously served as Treasurer and currently serves as President of the Bay State Chapter of NDA. He recently traveled to Haiti as part of a five-member team to identify opportunities for the NDA to be of assistance to the National Public Health Care Agenda in Haiti.

He has also traveled to Honduras as a volunteer dentist with Cape Cares. Through his private practice, he has sponsored internships for many students, including those from Nigeria, Haiti, Colombia, and Barbados.

GSDM Represented at 2012 Multicultural Oral Health Summit

The National Dental Association (NDA) hosted its 2012 Annual National Convention at the Boca Raton Resort & Club, in Boca Raton, Florida July 20-24, 2012. For the first time, the annual convention was held in conjunction with the Hispanic Dental Association (HDA) and the Society of American Indian Dentists (SAID). The convention focused on the theme, "Collectively Meeting the Needs of a Diverse Population to Improve Oral Health."

Five GSDM students attended: Brittney Barrow DMD 14, Lindzy Goodman DMD 14, and Wyatt Traina DMD 14 represented the Student National Dental Association; and Fransheska Ovalles DMD 13, and Chelsea Randall DMD 13, represented the Student Hispanic Dental Association. Newly appointed Director of Diversity & Multicultural Affairs and Clinical Assistant Professor, Dr. Larry Dunham also attended the convention for the first time since his appointment on July 1, 2012. The GSDM group was able to reunite with GSDM alum and former BU HSDA President, Liz Montero DMD 11, who also attended the convention. Dean Hutter also attended.

On Friday, July 20, Dean Hutter hosted a luncheon for the GSDM students during which they had an opportunity to

meet Dr. Dunham. On Saturday, July 21, a Pre-doctoral and Post-doctoral Recruitment Fair for pre-dental and dental students was held. The GSDM table was hosted by Dean Hutter, Brittney Barrow, and Dr. Dunham.

Barrow was elected SNDA Representative to the NDA House of Delegates during the conference.

GSDM Employee Katia Gomez "Does something!" Ben Affleck Presents Her with \$100K

Katia Gomez, a student employee in GSDM Admissions & Student Affairs and a student at the BU School of Public Health, is the recipient of the \$100,000 Do Something Award for her nonprofit organization Educate2Envision (E2E). The Awards were televised on VH1 Tuesday, August 21, 2012.

The website DoSomething.org has presented the Awards since 1996 to young people changing the world through charitable acts. The Awards were a star-studded event, with many celebrities also honored for their charitable work. Katia and the four other finalists met Beyonce and appeared onstage at the Awards. The runners-up received a \$10,000 community grant for their organizations—but Katia was the big winner.

Katia's nonprofit E2E focuses on Honduras, where it is estimated that around 70 percent of the population lives below the poverty line. E2E's work focuses on Pajarillos, a town in central Honduras where, according to E2E's website, most children don't graduate the sixth grade. For those who do, the closest school for seventh and eighth grade is a three-hour walk. According to its website, E2E strives to offer children living in poverty the chance to attain the highest level of education that their individual efforts will allow them.

GSDM staff is excited for Katia to continue her work in Honduras.

Dr. Pushkar Mehra Nominated to ABOMS Examination Committee

Department of Oral & Maxillofacial Surgery Chair and Associate Dean for Hospital Affairs Dr. Pushkar Mehra was appointed to the American Board of Oral and Maxillofacial Surgery (ABOMS) Examination Committee for an eight-year term, commencing in 2013.

ABOMS is the certifying board for the specialty of oral and maxillofacial surgery in the United States and is recognized and approved by the Council on Dental Education of the American Dental Association. The Examination Committee participates in the administration of ABOMS exams, acting as Examiners for the ABOMS Oral Certifying Examination. In addition, committee members submit questions for the ABOMS Qualifying Examination, Recertification Examination, and the Oral and Maxillofacial Surgery In-Service Training Examination (OMSITE).

ABOMS plays the vital role of assuring the public that they are receiving safe and optimal care by developing and maintaining high certification and recertification standards for diplomates in

the specialty of Oral and Maxillofacial Surgery. The goal of ABOMS is to inspire excellence and encourage learning in oral and maxillofacial surgery through its certification and recertification program.

Dr. Mehra graduated valedictorian from King George's Medical College in Lucknow, India, in 1992 with a Bachelor of Dental Surgery. He received his Doctor of Dental Medicine from Boston University Henry M. Goldman School of Dental Medicine in 1995. He completed his Oral and Maxillofacial Surgery Residency through a combined training program between Boston University and Tufts University. At the Baylor University Medical Center in Dallas, Texas, Dr. Mehra completed a fellowship under the guidance of Dr. Larry Wolford.

Dr. Mehra's clinical interests include the surgical treatment of obstructive sleep apnea, maxillofacial pathology, nerve repair, and complex functional and esthetic facial reconstruction including Orthognathic, TMJ, and Cosmetic Surgery. He has published extensively in medical and dental journals and textbooks and is frequently invited to lecture at various national and

international meetings. He is a Fellow of the American Association of Oral and Maxillofacial Surgeons, a Diplomate of the American Board of Oral and Maxillofacial Surgery, and a Massachusetts delegate to the American Association of Oral and Maxillofacial Surgeons.

Burton Langer PERIO 66 Presents Annual Schoolman Lecture; Reception Welcoming New Periodontology and Oral Biology Residents and Students Follows

On Monday, September 10, 2012, Dr. Burton Langer, a 1966 alum of the post-doctoral program in periodontics at the Henry M. Goldman School of Dental Medicine (GSDM),—presented the 2nd Annual Schoolman Lecture to an attentive audience of faculty, residents, students, and alumni. The title of the lecture was "The Correction and Avoidance of Esthetic Disfigurements on Teeth and Implants Resulting from Trauma, Dental Disease or Previous Implant Therapy."

Each year, as part of its endowed lectureship, the Department of Periodontology & Oral Biology invites a speaker who is an alum of the Department and who has become a prominent figure in the field of clinical periodontics and has contributed significantly to the advancement of periodontology.

Dr. Langer expressed his pleasure at returning to the GSDM campus, his first time since his graduation in 1966 with a Master of Science and Certificate of Advanced Graduate Study in Periodontology & Oral Biology. Among other changes around the GSDM campus, he was especially impressed by the School's state of the art facilities. Though he had not been back to the campus, Dr. Langer had maintained a connection with Boston University: his daughter studied liberal arts at BU.



Dr. Pushkar Mehra

Over his career to date, Dr. Langer has developed numerous modalities of therapy that have become standard methods of treatment. These include: early re-entry procedure for bone grafts, the ridge augmentation procedure, the subepithelial connective tissue graft, and various flap procedures for implants.

Currently, Dr. Langer maintains a practice on Fifth Avenue in New York City with his wife, Dr. Laureen Langer. He earned his Doctor of Dental Medicine from Tufts School of Dental Medicine and was an Associate Clinical Professor of Periodontics and the Director of Postgraduate Clinical Periodontics at Columbia University School of Dental and Oral Surgery. Dr. Langer is a Diplomat of the American Board of Periodontology.

Following the lecture, Dr. Langer attended, as an honored guest, a welcome reception for the new Advanced Specialty Education in Periodontics residents and post-graduate students in the Department of Periodontology & Oral Biology at the Boston University Castle. Addressing the guests at the reception, Dean Jeffrey W. Hutter extended his gratitude to Dr. Langer.

Dr. Dibart also addressed the guests, thanking Dr. Langer for his lecture and attendance, warmly welcoming the incoming post-doctoral students, and welcoming back returning residents and students to the Department of Periodontology & Oral Biology.

The day had begun with a demonstration of the great height of success reached by a former student of the GSDM Department of Periodontology & Oral Biology. It ended with a welcome to new students at the start of their ascent to success.

Dr. Timothy Osborn Provides Hope for Severe Migraine Sufferers

For those who suffer debilitating migraines daily or almost daily—approximately 3.5 million in the US, there is an innovative procedure now offered by Dr. Timothy Osborn at Boston University Henry M. Goldman School of Dental Medicine (GSDM) and Boston Medical Center (BMC). He is one of two surgeons in Boston and one of fifteen in the country who perform this type of surgery.

The first step is injecting Botox to defunctionalize some of the muscle enough to cause it to stop compressing the nerves and causing pain. This provides partial relief. The second step, the surgical part and what makes this

procedure special, involves releasing the nerve from the muscle and surrounding tissue.

This is done with a method that stems from cosmetic procedures such as an endoscopic brow lift, where surgeons reach the affected area through the upper eyelid. Another way to do the procedure is to enter through five small incisions in the scalp.

Dr. Osborn studied with a surgeon in Dallas who helped pioneer the procedure. Now, in Boston, Dr. Osborn hopes to connect with more people in need of treatment, study the outcomes, and possibly develop new procedures.

GSDM Accredited by the Commission on Dental Accreditation

The Commission on Dental Accreditation issued a report to President Brown following a successful site visit conducted October 24-26, 2012. Contained in the Report was that during its February 1, 2013 meeting, the Commission adopted a resolution to grant accreditation to the GSDM Pre-doctoral Dental Education Program and the Advanced Specialty Education Programs in Dental Public Health, Endodontics, Orthodontics & Dentofacial Orthopedics, Pediatric Dentistry, Periodontics and Prosthodontics. In so doing, these programs were granted the accreditation status of "approval without reporting requirements."

In addition, the Commission granted accreditation to the GSDM Advanced Education in General Dentistry (AEGD) Program, and in so doing, the program was granted the accreditation status of "approval without reporting requirements."

The Advanced Specialty Education Program in Oral & Maxillofacial Surgery had been granted accreditation by the Commission in October 2011, and in so doing, also granted the accreditation status of "approval without reporting requirements."

Dean Hutter sent an announcement to the School formally thanking the Core Accreditation Committee and Post-doctoral Curriculum Committee for all of their hard work and effort. Chaired by Dr. Paula K. Friedman and Dr. Thomas Kilgore, respectively, the Committees did a wonderful job of preparing our School and its Educational Programs for Accreditation.

Several Members of GSDM Community Elected To American Public Health Association Oral Health Section

The American Public Health Association (APHA) Oral Health Section announced its election results and five members of

the Boston University Henry M. Goldman School of Dental Medicine (GSDM) community were selected.

The new APHA Oral Health Section includes: Chair-Elect Kathy M. Lituri, MPH, RDH; Secretary Cynthia Cadoret, MPH, RDH; Section Councilors Vinodh Bhoopathi, DScD, MPH, BDS and Amit Chattopadhyay, PhD, MPH, BDS; and Governing Councilor Raul I. Garcia, DMD, MMedSc.

The new positions were effective Wednesday, October 31, 2012, the final day of the 2012 APHA Annual Meeting & Exposition in San Francisco.

Many members of the GSDM community are actively involved in the Oral Health Section. As it happens, these particular positions were held by past and current members of the GSDM community. Kathy M. Lituri replaced Oscar Arevalo, DDS, ScD, a GSDM alum from the Dental Public Health (DPH) program. Raul I. Garcia stepped into the position held by Helene Bednarsh, BS, RDH, MPH, an adjunct faculty member at GSDM. Cynthia Cadoret replaced Natalie Hagel, RDH, MS, a former member of the GSDM faculty.

Ms. Lituri has been a dedicated member of APHA Oral Health Section leadership for almost a decade. In 2003 she was elected Secretary and served two three-year terms. Ms. Lituri now serves as Section Councilor, a role she retains until officially becoming Chair-Elect at the end of the APHA meeting this year. In 2013 she assumed the position of Chair.

Faculty Member and Alum Dr. Ayilavarapu Wins Prestigious Nevins Fellowship

On September 30, 2012, the AAP Foundation chose as the recipient of the prestigious and highly competitive Nevins Teaching and Clinical Research Fellowship Boston University Henry M. Goldman School of Dental Medicine (GSDM) alum and Clinical Assistant Professor Dr. Srinivas Ayilavarapu DSC 08, PERIO 10.

The Nevins Fellowship is an award of \$20,000 for teachers of dentistry between their third and fifth year and was established to improve the retention of junior full-time periodontal faculty and provide personal funding to lighten the burden of academic loan repayment. The award was created by donors in honor of Dr. Myron Nevins PERIO 67, a leader in the field of periodontology.

Dr. Ayilavarapu was chosen from two other finalists interviewed on September 30, 2012, by seven panelists at the American Academy of Periodontology (AAP) Annual Meeting.



**Dr. Srinivas
Ayilavarapu**

As the selected recipient of the Nevins Fellowship, Dr. Ayilavarapu builds on an already distinguished record of achievements. His previous accomplishments include winning the research poster award for his work titled “Novel Inflammatory Pathways in Diabetes and Periodontitis-Role of iPLA2 in Superoxide Generation in Neutrophils” at the 2010 Boston Periodontal Residents Meeting and having his research published in the *Journal of Immunology*. Dr. Ayilavarapu became a Diplomate of the American Board of Periodontology in 2011.

Dr. Ayilavarapu expressed his excitement for the national level of this particular recognition. He noted humbly that he felt lucky to be chosen and that the other finalists were both highly qualified.

Dr. Ayilavarapu mentioned that the award will enable him to focus his attention on teaching, a pursuit that he has always been interested in. Currently, Dr. Ayilavarapu is teaching GSDM pre-doctoral students in periodontology. He is also actively submitting grant applications so that he may return to his research, which has most recently been focused on the relationship between diabetes and periodontitis and how both conditions affect systemic health.

For their support in his application for the Nevins Fellowship, Dr. Ayilavarapu credits Clinical Assistant Professor of General Dentistry and Director of Pre-doctoral Periodontology Dr. Neal Fleisher; Professor and Chair of General Dentistry and Director of the Center for Clinical Research Dr. Judith Jones; and mentor and research collaborator Dr. Thomas Van Dyke, who is a former professor in the GSDM Department of

Periodontology & Oral Biology and current Vice President of Clinical and Translational Research at the Forsyth Institute.

Jawbreakers Win Intramural Hockey Championship

The GSDM intramural ice hockey team, the Jawbreakers, defeated Saucy and Frothy (3-2) to win the 2012 Boston University Intramural Championship Game on Wednesday, November 7.

Team members included GSDM students: Julian Camastra, Rob Cauley, Christopher Chan, Adrian De Vincenzo, Richard "Trip" Egan, Tony Faraco-Hadlock, Kyle Ivy, Alan Jue, Tom Keeling, Sara Mandell, Dan Moynihan, Paul Nardi, Caitlin Reddy, and Melissa Smith. Also on the team were faculty and staff members: Mr. Andy Burke (captain), Dr. Sheldon Itzkowitz, and Dr. Frank Schiano.

The win was particularly gratifying since Saucy and Frothy beat the Jawbreakers in last year's Championship.

Students Accept Externship Challenge and Achieve Success in San Marcos

The Hollywood-style Coca-Cola sign that Ilya Garibyan DMD 13 and Anya Pukhovitskaya DMD 13 saw in the hills near Tegucigalpa, Honduras, at the start of their dental mission with Cape Cares Central American Relief Efforts foreshadowed the poor state of oral health they would encounter in their work there from October 19 to October 28, 2012.

The two Boston University Henry M. Goldman School of Dental Medicine students travelled to the rural location of San Marcos accompanied by Director of Dentists Randall G. Baldwin DMD; David Mallett DDS and his wife; three nurses; one physician assistant; a family doctor; a physical therapist; and translators, among other support workers.

In San Marcos, Garibyan and Pukhovitskaya found a local population living without electricity and dealing with pain as part of daily life due to harsh physical labor and lack of proper medical care. Area children must walk an hour-and-a-half to school.

Cheap and abundant, soda is the primary drink for the population—as the Coca-Cola sign in the hills hints. The predominance of soda is certainly a component of the poor oral health in the population of Honduras. With poor nutrition and limited oral hygiene education, locals are used to losing teeth at a young age. One 17-year-old the students encountered was close to needing complete dentures.

Over four days, the team extracted 600 teeth. Working from 8 a.m. to 5 p.m., with Pukhovitskaya using a beach recliner supported by blocks as an examination chair, the two students together saw 30 patients a day. At the end of each day, they were exhausted from the physical effort of pulling the teeth from patients whose ages ranged from 8 to 40 years old.

Dr. Mallet and Dr. Baldwin, Cape Cares Team Leader, had many positive comments regarding Garibyan and Pukhovitskaya's efforts.

After their experience helping the people surrounding San Marcos, both Garibyan and Pukhovitskaya are looking forward to participating in future international dental missions. In addition to helping people in urgent need of dental care, the mission was an excellent opportunity to enhance clinical skills.

Applied Strategic Planning Committee Holds Annual Meeting

The Boston University Henry M. Goldman School of Dental Medicine (GSDM) Applied Strategic Planning (ASP) Committee met for its annual meeting on Wednesday, November 28 and Thursday, November 29, 2012. The meeting was facilitated by Dr. Bob Frazer of R. L. Frazer and Associates and ASP Co-Chairs Drs. John Guarente and Celeste Kong. R.L. Frazer and Associates was the consulting firm that was hired by GSDM to facilitate the ASP process.

During the meeting, the group reviewed the overall ASP process along with the core values, operational values, and mission of GSDM. Mr. Gurjinder Gill provided a review of the Balanced Scorecard (BSC) monitoring process that is being used as we implement the ASP. The balanced scorecard is a strategic planning and management system that is used extensively in business and industry, government, and non-profit organizations worldwide to align business activities to the vision and strategy of the organization, improve internal and external communications, and monitor organizational performance against strategic goals.

Also during the meeting, ASP Committee Co-Chair Dr. Celeste Kong presented the ASP Committee with an update of the environmental scan that was initially presented in 2010. An environmental scan compiles factual and subjective information on a broad spectrum of social, political, economic, and marketplace trends that may affect change either positively or negatively in an organization.

Drs. Cataldo Leone, Carl McManama and David Russell then reviewed the two Curriculum Summits held to date and

provided plans for the Group Practice Model that is being developed for GSDM. Then, each of the 10 goal champions reviewed progress and updated related objectives and integrated action plans (IAPs) in order to ensure that the ASP remains responsive to internal and external changes.

Kukuruzinska Lab Publishes on Potential Cancer-Causing Gene DPAGT1

A manuscript published online November 23, 2012, in the *Journal of Cell Science* presented new insights into the mechanisms that control epithelial cell behavior as discovered by Dr. Maria Kukuruzinska's laboratory in the GSDM Department of Molecular & Cell Biology. The research identified the DPAGT1 gene as a regulator of canonical Wnt signaling and



Dr. Maria Kukuruzinska

E-cadherin adhesion through positive and negative feedback loops and suggests that DPAGT1 may—at least in vitro—function as an oncogene (a gene that has the potential to cause cancer).

Dr. Kukuruzinska's laboratory previously showed that the DPAGT1/canonical Wnt signaling loop is unusually amplified in oral cancer. This new research suggests that even a modest increase in DPAGT1 expression leads to a much greater amplification of canonical Wnt signaling and a substantial inhibition of E-cadherin adhesion. This is associated with a dramatic shift from an epithelial to a mesenchymal morphology.

Researchers have shown that the highly conserved metabolic pathway of protein N-glycosylation functions in an interactive network with the canonical Wnt signaling pathway and E-cadherin-mediated cell-cell adhesion. Through this network, cells adjust proliferation in response to density information and achieve functional maturity by establishing stable E-cadherin-mediated cell-cell junctions.

The N-glycosylation pathway is initiated by the DPAGT1 gene, which regulates the extent of N-glycosylation and the

quality of N-glycan structures. DPAGT1 is a target of the canonical Wnt signaling pathway, which plays a prominent role in regulating cell proliferation and cell fate. DPAGT1 regulates canonical Wnt signaling by affecting the N-glycosylation status, activity, and localization of Wnt ligands and co-receptors. By controlling the N-glycosylation of E-cadherin, a major epithelial cell-cell adhesion receptor and regulator of cell polarity and survival, DPAGT1 regulates the molecular organization of E-cadherin junctional complexes, thus impacting their adhesive functions. In turn, DPAGT1 and canonical Wnt are antagonized by E-cadherin via a mechanism that involves the depletion of transcriptionally active b- and g-catenins. Moreover, N-glycosylation affects the ability of E-cadherin to antagonize canonical Wnt signaling and DPAGT1 expression.

The authors of the manuscript, "Coordinate regulation of N-glycosylation gene DPAGT1, canonical Wnt signaling and E-cadherin adhesion," are Pritam K. Sengupta, Meghan P. Bouchie, Mihai Nita-Lazar, Hsiao-Ying Yang, and Maria A. Kukuruzinska.

GSDM Resident Awarded AAE Grant

GSDM resident Dr. Haytham Sabri Jaha was awarded a \$13,010 grant in fall 2012 by the American Association of Endodontists (AAE) Foundation to support his research project, "The effect of DSP fragment on dental pulp stem cells."

Dr. Sami Chogle, Director of the Advanced Specialty Education Program in Endodontics, applauded Dr. Jaha's achievement.

Dr. Jaha is a third-year student in the combined program of Doctor of Science (DSc) in Oral Biology and CAGS in Endodontics. He's working on this project under the supervision of Associate Professor Dr. Yuki Mochida, in the Department of Periodontology & Oral Biology.

Drs. Jaha and Mochida are studying a particular disease called Dentinogenesis imperfecta (DGI), which is one of the most common clinical and genetic disturbances of dentin formation. DGI causes several dentin defects including opalescent color ranging from gray to brownish blue, bulbous-shaped crowns, disorganized distribution pattern and few dentinal tubules, nodular dentin appearance, easy chipped away enamel pulp exposure and pulp space obliteration.

In their preliminary studies they found DSP—a fragment of DSPP—has a unique ability to generate type I collagen, a major composition of dentin. The data from this study should provide new insights into the pathophysiological function of

DSPP protein in dentin-pulp formation and into potential regenerative root canal therapies. It may generate a new concept in managing an exposed or perforated pulp space by controlling the activity of pulp cell activity (stimulating the tissue in pulpodentin complex) by this biological molecule to generate a reparative dentin in the affected area (pulp capping technique).

Staff Forum Meetings Address Staff Development and More

The GSDM Staff Forum Board held meetings the week prior to the 2012-2013 Intersession at both 930 Commonwealth Avenue and 100 East Newton Street. Board members Barbara Pyke, Carina Pina, and Janet Huh led both meetings.

The meeting at 930 Commonwealth Avenue on December 17, 2012, took the format of an open discussion. Staff asked questions regarding performance reviews, seniority, and flexibility in their schedules.

On December 20, 2012, Grace Elson addressed staff at 100 East Newton Street to discuss the Staff Development Plan, which is Goal 8 of the Applied Strategic Plan (ASP). Grace recently took over responsibility for this goal from Lori Brady. In this role, Elson will review staff survey results, examine orientation and training programs, and work closely with the Staff Forum Board to achieve mutual goals.

Dean Jeffrey W. Hutter stopped by both meetings and spoke on the topic of staff development. He called it a high priority and stated that a Director for Staff Development would be identified.

A survey on staff rewards and recognition revealed that staff are interested in awards such as Staff Excellence and Leadership, Employee of the Month, and Department of the Year. Dr. Thomas Kilgore, who is in charge of this ASP goal, will present these survey results to the Faculty Forum and Dean Hutter.

Several changes were announced to improve the physical work environment and safety. They include: the addition of spray bottles and paper towels for public use in the Newton cafeteria, to improve cafeteria sanitation, and the installation of panic buttons in departments that work closely with patients. The Staff Forum will host a de-escalation and safety training to teach staff how to diffuse difficult situations.

In an effort to improve communication, the Staff Forum Board will begin sending monthly e-updates. Board members continue to work on semiannual ASP town hall meetings, email access for all GSDM staff, communication training

for front-line staff, faculty and staff orientation, a volunteer mentor program, and staff social activities. Future meetings may be held separately for supervising and non-supervising staff in response to staff suggestions.

Elections held in conjunction with the Staff Forum meetings brought one significant change. The Board was initially designed to have two members each in the areas of research, clinic, and administration. Now, if a candidate in one of those areas is unavailable, any staff member may run for the open position.

Two GSDM Students Join ADEA Representatives

Amal (Emma) Lattouf and Andrew Soule-Hinds, both DMD 15, were selected as the American Dental Education Association (ADEA) Council of Students, Residents and Fellows (CoSRF) class representatives for the Boston University Henry M. Goldman School of Dental Medicine (GSDM).

GSDM Student Affairs and current GSDM ADEA CoSRF representatives served as the selection committee.

As GSDM student representatives on the Council, Lattouf and Soule-Hinds will serve for two years, working with current GSDM ADEA CoSRF representatives to promote student engagement and increase ADEA student membership at GSDM. They will also travel to both the 2013 and 2014 ADEA Annual Sessions. Lattouf and Soule-Hinds will join current GSDM CoSRF representatives Arsalan Elahi and Kelsey Hill, both DMD 14, at this year's ADEA Annual Session in Seattle this March.

The ADEA CoSRF's mission is to serve as the national voice and advocates for all students, residents, and fellows in the dental education community by addressing the issues that shape the present and future of dental education.

Additionally, ADEA CoSRF offers a chance for student leaders to develop their skills to become future leaders in dental education.

Dr. Russell Giordano Appointed Associate Professor in Materials Science and Engineering at BU College of Engineering

Dr. Russell Giordano II has been appointed Associate Professor in Materials Science and Engineering at the Boston University College of Engineering. He has been serving there as a participating faculty member since 2008 and this formal appointment to the faculty is testament to his outstanding research, commitment, and leadership. He has served on the Steering Committee for the College of Engineering Division of

Materials Science and Engineering since its inception in 2008 and recently presented research conducted at the Henry M. Goldman School of Dental Medicine (GSDM) at the 2012 Annual Steering Committee Meeting, which is composed of distinguished members from industry and academics throughout the United States.

ENAMIC

In addition to this honor, Dr. Giordano's patented new hybrid ceramic dental material has recently been introduced to the market by the German porcelain manufacturer VITA Zahnfabrik. The product takes the best properties of a conventional composite resin and a conventional ceramic. It has improved resistance to fracture and better machining properties than existing chair side CAD/CAM materials. The goal is to use the new ceramic in crowns, veneers, inlays, onlays, and on top of implants. It is designed to be used with the CEREC CAD/CAM system now in wide use at GSDM. In the future, Dr. Giordano expects to be able to make fixed prostheses chairside in one visit.

Dr. Russell Giordano



Dr. Giordano received a BS in Chemistry, Summa Cum Laude, from Boston College in 1982, a DMD, Cum Laude, from Harvard School of Dental Medicine in 1987, a DMedSc in Biomaterials/Oral Biology from Harvard School of Dental Medicine with his research conducted at the Massachusetts Institute of Technology (MIT) in 1991, and a Certificate in Prosthodontics from Harvard School of Dental Medicine in 1991. He was a Research Fellow in Prosthetic Dentistry at Harvard School of Dental Medicine from 1987 to 1991 and a Research Fellow at the Ceramics Processing Research Laboratory at MIT from 1989 to 1991.

Dr. Giordano has been an Associate Professor in the Department of Restorative Sciences and Biomaterials at GSDM since 2001 and Director of Biomaterials since 2002.

He previously served as Assistant Professor in the Department of Restorative Sciences and Biomaterials at GSDM from 1992 to 2000. Prior to joining GSDM he was a Visiting Scientist at MIT from 1993 to 1999. Prior to that, from 1992 to 1993 he was a Visiting Assistant Professor and in 1993 an Assistant Professor in the Department of Restorative Dentistry at the University of Illinois at Chicago College of Dentistry. From 1991 to 1992 he was both an Instructor at the Harvard School of Dental Medicine and a Research Associate at MIT.

Dr. Giordano has been the recipient of numerous awards and honors including: Elected Fellow of the Academy of Dental Materials; IADR/AADR Arthur R. Frechette Novice Award in Prosthodontics; National Institute for Dental Research Individual National Research Service Award; Roy O. Greep Award for Excellence in Basic Sciences; Academy of Dental Materials Student Award; American Association of Dental Radiology Student Award, Harvard School of Dental Medicine; Sigma XI, Scientific Research Society; General Excellence Medal Scholar of the College, Boston College; Phi Beta Kappa; and Alpha Sigma Nu.

Dr. Giordano serves on a wide variety of committees within GSDM as well as being a member of several professional organizations including: Phi Beta Kappa; Sigma Xi Scientific Research Society of North America; American Chemical Society; International Association for Dental Research; American Association for Dental Research; American Dental Association; Academy of Dental Materials; American Ceramics Society; the Editorial Board of the Journal of Dental Technology and Spectrum; the Editorial Board of the Journal of Dentistry; the Editorial Board of the Journal of Biomedical Materials; ISO TC 106 CAD/CAM Standards Representative; U.S. Expert on Ceramics to ISO TC 106; ADA Chairman

Working Group 9.65 Zirconia Standards; Chair ADA Working Group 2.2 Ceramic Materials; and Vice-Chair ADA 2.0 Restorative and Prosthodontic Materials.

Dr. Giordano's major research interests include: Ceramic Matrix Composites; CAD/CAM; Solid Free Form Fabrication; Bioceramics; Tissue Matrix Devices; and Composite Resins. He has extensive research support, has published widely, and holds several patents.

New Position for Dr. Michelle Henshaw

Dean Jeffrey W. Hutter appointed Dr. Michelle Henshaw to the position of Associate Dean for Global and Population Health, effective February 1, 2013.

In this capacity, Dr. Henshaw leads efforts related to developing and showcasing the Henry M. Goldman School of Dental Medicine's (GSDM) position as a world leader in global health and interprofessional care initiatives. She leads a new Office of Global and Population Health.

Global and Population Health actively supports students, faculty, and staff in their efforts to improve the health of the world's populations, and facilitate interdisciplinary health research, teaching, and practice across all departments and programs at GSDM and the University, with a special emphasis on global health and interprofessional care. Dr. Henshaw retains her previous responsibilities related to Community Health Programs, the Northeast Center for Research to Evaluate and Eliminate Dental Disparities (CREEDD), and Community Partnerships and Extramural Affairs. She also retains her appointment as Professor in the Department of Health Policy & Health Services Research.

Dr. Henshaw has been charged with: establishing an organizational structure that identifies and addresses the challenges of developing and conducting global health training, research, and service projects; working with the School of Medicine, School of Public Health, and health-related professional schools on the Charles River Campus to create programs that will rigorously prepare trainees for collaborative practice and interprofessional care; administering national and international community-based educational programs; administering and expanding the GSDM community service and service-learning programs; and seeking funding for innovative research and educational programs that will catalyze the development of interdisciplinary translational research projects that provide a firm scientific base for clinical practice and public health policy.



Dr. Michelle Henshaw

Dr. Henshaw received a BS in Psychology from Columbia University in 1989, a BS in Dental Science and a DDS from the University of California at San Francisco in 1993, and a MPH with a dual concentration in Epidemiology/Biostatistics and Health Services from Boston University School of Public Health in 1996. She was a General Practice Resident at the Brockton Veterans Administration and a Faculty Training Fellow in Geriatric Dentistry for the US Department of Health and Human Services/Bureau of Health Professions at Boston Medical Center/Boston University School of Medicine from 1993–1994. Dr. Henshaw earned a Certificate of Advanced Graduate Study in Dental Public Health at GSDM in 2000.

Dr. Henshaw has been a Professor in the Department of Health Policy and Health Services Research at GSDM since 2008. She previously served that department as an Associate Professor from 2004–2008 and Assistant Professor from 1997–2004. Prior to that, she served as Assistant Professor in the Division of Dental Care Management from 1996–1997. Dr. Henshaw has served as the Project Director at the Chelsea School Dental Center, the Director of Community Health Programs at GSDM, Dental Director at the Boston Center for Refugee Health and Human Rights at Boston

Medical Center, and Co-PI for Clinical and Community Liaison Core at the CREEDD. She has served as Co-Director at the CREEDD since 2005, and as Assistant Dean for Community Partnerships and Extramural Affairs at GSDM since 2006.

Dr. Henshaw has received numerous awards and honors including: ADEA Gies Foundation 2011 William J. Gies Award for Innovation in the Dental Educator category; NIH-NCMHD Health Disparities Scholar, 2004–2007; Oral Health Care Access Program Scholar, Santa Fe Group and ADTA, 2002; Community Campus Partnerships for Health Fellow, 2002; Spencer N. Frankl Excellence in Teaching Faculty Award, 2000; Geriatric Dental Fellowship Award, Boston University Goldman School of Dental Medicine, 1997; Best Overall Presentation and Use of Graphics, University of Iowa Health Sciences Center, 1997; Omicron Kappa Upsilon Society, Member, 1993–Present; Chancellors Award, University of California at San Francisco, 1993; Professional Development Award, University of California at San Francisco, 1991; California Dental Association Award, University of California at San Francisco, 1991; and Mendelson Scholar Award, University of California at San Francisco, 1989–1993.

Dr. Henshaw is a member of several professional organizations including: American Association for Dental Research; American Association of Public Health Dentistry; American Dental Association; American Dental Education Association; American Public Health Association; International Association for Dental Research; Massachusetts Dental Society; and Massachusetts Public Health Association.

Dr. Henshaw has written numerous articles for several dental health publications including the American Journal of Public Health and the Journal of Dental Education.

50th Anniversary Celebration Kicks Off at Yankee

The 2013 Yankee Dental Congress (YDC) was especially celebratory for the Boston University Henry M. Goldman School of Dental Medicine (GSDM). Our School celebrated its 50th anniversary, welcomed back alumni, and saw Nadia Malik DMD 13 honored by the American College of Dentists.

At the Boston Convention & Exhibition Center, alums reconnected at the GSDM Alumni Lounge. A photo slideshow of the School's first 50 years played throughout the Congress. Also exhibiting was GSDM Continuing Education, whose representatives promoted upcoming continuing education opportunities.

We celebrated the past, present, and future of our School at a 50th Anniversary Pre-reception Celebration on February 1, 2013. The special guests invited were closely involved in planning the anniversary celebration. They were:

- the Honorary Committee to Plan the 50th Anniversary Celebration of the Founding of the Henry M. Goldman School of Dental Medicine
- the Dean's Advisory Board
- the GSDM Executive Committee
- the GSDM Alumni Association Board

Later that evening 1,125 alumni, faculty, staff, students and friends gathered for a reception and 50th Anniversary Kickoff Celebration.

Ron Nevins PERIO 67 received the alumni award for Service to the Profession. Dr. Nevins' many hats include dental educator, practitioner, editor, American Academy of Periodontology leader, former Board director, founder and President of Perio Implant Research, Inc., and supporter of our School.

Special guests spoke, praising the past, present, and future of GSDM:

- BU Provost and Chief Academic Officer Dr. Jean Morrison
- American Dental Association President Dr. Robert Faiella
- American Dental Education Association President Dr. Gerald Glickman
- Dean's Advisory Board Chair Dr. David Lustbader
- BU Alumni Council President Dr. Shadi Daher
- GSDM Alumni Association President Dr. Mitch Sabbagh
- Chair of the Committee to Plan the 50th Anniversary Celebration Dr. Thomas Kilgore

A video commemorating the past 50 years and the future of our School then premiered at the reception.

Dean Jeffrey W. Hutter presented fourth-year DMD student Nadia Malik the American College of Dentists Senior Student Award at a luncheon on February 2, 2013.

Dr. Mitch Sabbagh at
Yankee Dental Congress



Dr. Errante Looks to Strengthen Relationships, Affect Policy at Leadership Institute

The American Dental Education Association (ADEA) welcomed Dr. Margaret Errante to the ADEA Leadership Institute on January 14, 2013. The ADEA Leadership Institute is a year-long program designed to develop individuals at academic dental institutions to become future leaders in dental and higher education.

Dr. Errante is honored to have been given the opportunity by Dean Hutter to attend the ADEA Leadership Institute.

Members will meet for four workshops over 2013–2014 with the following advisors:

- Dr. Marnie Oakley, Associate Dean, Clinical Affairs, University of Pittsburgh School of Dental Medicine
- Dr. Michael J. Reed, Dean Emeritus, University of Missouri–Kansas City School of Dental Medicine
- Dr. Leo E. Rouse, Dean, Howard University College of Dentistry
- Professor Pamela Zarkowski, Provost and Vice President for Academic Affairs, University of Detroit Mercy

Dr. Errante is a Clinical Assistant Professor in the Department of General Dentistry, Director of the BU Dental Health Center, and Director, Clinical Operations at our School.

Dr. Farsai Appointed Consultant to ADA Council on Scientific Affairs

In March 2013, the American Dental Association (ADA) offered Boston University Henry M. Goldman School of Dental Medicine (GSDM) Associate Professor of General Dentistry Dr. Paul Farsai an appointment as consultant to the Council on Scientific Affairs (CSA). The purpose of the CSA is to provide information and guidance to the dental profession and the public on a wide spectrum of scientific topics. The CSA also administers the ADA Seal of Acceptance Program. Professionals who are appointed as consultants to the CSA are chosen for their expertise in an area vital to the Council's work. As a consultant to the CSA, Dr. Farsai will be asked to provide his expert advice on scientific matters within his area of expertise.

Since 2008, Dr. Farsai has worked as a contracted expert witness consultant to the Commonwealth of Massachusetts Executive Office of Health and Human Services, Department of Public Health Division of Health Professions Licensure/Board of Registration. Since 2007, he has served as an expert dental consultant for the law firm Martin, Magnuson, McCarthy & Kenney.

Dr. Farsai received a Doctor of Dental Medicine in 1994 and a Certificate of Advanced Graduate Study in General Dentistry in 1995, both from GSDM. In 1997, Dr. Farsai received a

Master of Public Health from Boston University School of Public Health. He also holds a Certificate of Fellowship from the US Department of Health and Human Services/Bureau of Health Professions after completing a two-year faculty training fellowship in geriatric dentistry.

Dr. Farsai has received numerous honors and awards, including selection for Fellowship in the Pierre Fauchard Academy



International Honorary Dental Organization; nomination for the Boston University Metcalf Awards For Excellence in Teaching (University-wide); selection for Fellowship in the American College of Dentists; and honorary faculty membership in the Boston University Lambda Mu Chapter of the Omicron Kappa Upsilon national honor dental society.

Dr. Farsai has published extensively, with a focus on topics in geriatric and special needs dentistry. His professional affiliations include the American Academy of Developmental Medicine and Dentistry, American College of Dentists, American Dental Association, American Dental Education Association, Academy of General Dentistry, American Society for Geriatric Dentistry (Special Care Dentistry), Massachusetts Dental Society, North Shore District Dental Society, Omicron Kappa Upsilon, Lambda Mu Chapter (Boston University School of Dental Medicine), Pierre Fauchard Academy, Joint Commission on National Dental Examinations (ADA-JCNDE), and the Academy of Osseointegration.

Dr. Farsai also maintains a private practice in Swampscott, Massachusetts.

Updates in Dental Medicine: Team Building & Conflict Management

On April 5, 2013, faculty and students gathered at the Boston Common Hotel and Conference Center for the second annual “Updates in Dental Medicine.” The “Updates” are part of a continuing faculty development series designed to meet the self-assessed needs of the Faculty.

In the morning, Dr. Clyde Evans of CE Consulting led the group in a team building interactive workshop. Dr. Paula O’Neill—professor of Diagnostic Sciences and Associate Dean for Educational Research and Professional Development at University of Texas Health Science Center at Houston School of Dentistry—led the group in a conflict management and case-based conflict resolution workshop in the afternoon. Dr. Evans outlined fundamental principles and attributes of high performing teams along with the roles and responsibilities of team members. The faculty and students worked in small groups to experience and practice the principles and dynamics of teambuilding.

Dr. O’Neill discussed the situation of conflict and related behaviors, feelings, and consequences and outlined strategies for considering the viewpoint of others in a conflict. She also discussed conflict resolution tactics between individuals, small groups, and organizations, and looked at personal

preferences toward conflict management as indicated by the Thomas Kilman Instrument (TKI).

Attendees of the workshops engaged in lively discussion and debate on the topics at hand in a constructive day of collaboration.

Alumni Gather in Italy for 50th Anniversary Celebration

On March 23, 2013, the Boston University Henry M. Goldman School of Dental Medicine (GSDM) Italian Alumni Association (BUIA) hosted an alumni reception at the Villa Quaranta Hotel in Verona, Italy, as part of the School’s 50th Anniversary Celebration. The reception followed the 14th Annual Symposium, sponsored by the BUIA each year since it formed in 1999.

Dean Jeffrey W. Hutter joined the gathering of GSDM alumni, staff, faculty, family, and friends. He addressed the crowd, beginning by thanking the reception hosts BUIA President Tommaso Cantoni PROS 93, Professor Umberto Bar PERIO 63, Honorary President, Secretary Cristiano Fabiani ENDO 92, Cultural Secretary Roberto Rossi PERIO 91, Counselor Diego Capri PERIO 02, and Fabio Scutella PROS 95.

Dean Hutter spoke about the role of Henry M. Goldman School of Dental Medicine alumni in the historic, University-wide One Billion Dollar Campaign as an essential part of funding GSDM’s proposed new facility and the establishment of endowed Professorships and Scholarships.

Dean Hutter highlighted GSDM’s yearlong celebration of the 50th Anniversary of the founding of the School by Henry M. Goldman in 1963.

Dean Hutter closed the evening by presenting a video that was produced specifically for the 50th Anniversary Celebration commemorating the past 50 years and highlighting what lies ahead for the School.



GSDM staff members with Dean Hutter, Patty Delorey, Dean Jeffrey W. Hutter, Mary Ellen Sholes, Barbara McKenna, Marta Diaz, and Edlira Kerthi



Finish the Race Honors Victims of the Marathon Bombing

On Thursday, May 2, 2013, the Boston University School of Public Health sponsored a “Finish the Race” walk. “Finish the Race” was developed as a tribute to the affected runners and spectators, and an expression of solidarity with everyone in Boston and neighboring communities who are working to move forward, past the horrific events during and after the Boston Marathon.

The event was a one-mile walk that began on the Talbot Green on the Medical Campus. The first 300 participants received a “Finish the Race” t-shirt, which were worn as a sign of solidarity. At the finish line, participants had the opportunity to sign a greeting card for BMC patients still recovering from injuries suffered at the marathon.

Task Force Established to Implement Digital Dentistry at the Henry M. Goldman School of Dental Medicine

Dean Jeffrey W. Hutter established a Task Force to Implement Digital Dentistry at the Henry M. Goldman School of Dental Medicine (GSDM). The charge to the Task Force is to determine the necessary facilities, equipment, and support required to create a seamless all-inclusive digital patient record to facilitate comprehensive treatment planning and efficient delivery of oral health care at the highest quality of care using digital dental technologies.

As GSDM continues the implementation of the Group Practice Model into our clinical education and patient care, the Task Force will concentrate on areas of interest such as: Digital Patient Records; Restoration and Fabrication of Provisional Restorations; Permanent Inlays, Onlays, Veneers,

◀ **BUIA Board of Directors: Cultural Secretary Roberto Rossi PERIO 91, Dean Jeffrey W. Hutter, President Tommaso Cantoni PROS 93, Secretary Christiano Fabiano ENDO 92, and Counselor Diego Capri PERIO 02 (not pictured: Counselor Fabio Scutella PROS 95)**

Crowns, and Three-Unit Prosthesis using Digital Technologies; a Centralized Prosthetic Laboratory Facility; and the Creation of a Mobile Dental Office as a Means of Providing Oral Health Care to Those Patients Unable to Reach a Dental Office, Community Health Center, or our School of Dental Medicine.

Associate Professor and Director of Biomaterials in the Department of Restorative Sciences & Biomaterials Dr. Russell Giordano was appointed by Dean Hutter to chair the Task Force.

Clinical Associate Professor and Director of the Group Practice Experience and Team Leadership, Dr. David Russell spoke to the importance of digital dentistry for GSDM students.

The Task Force to Implement Digital Dentistry at the Henry M. Goldman School of Dental Medicine will deliver a preliminary report to Dean Hutter by August 1, 2013, and a final report with accompanying recommendations by October 1, 2013. The recommendations proposed by the Task Force must be consistent with the goals of the GSDM Applied Strategic Plan with plans to be implemented no later than July 1, 2014.

Task Force:

Mr. Andy Burke
Dr. John Cassis
Dr. Chao Ho Chien
Dr. Richard D’Innocenzo
Mr. Evan Donato
Mr. Gerard Dorato
Dr. Stephen Dulong
Ray English DMD 14
Dr. Margaret R. Errante
Dr. Neal Fleischer
Dr. Yael Frydman
Dr. Anita Gohel
Dr. John Guarente
Dr. Fred Hains
Dr. Michelle Henshaw
Mr. Ibrahim Kachouh
Dr. Celeste Kong
Dr. Mohamed Masoud
Mr. John Reilly
Dr. David Russell
Dr. Arthur Sun
Dr. Jason Zeim

Task Force Consultants:

Dr. Serge Dibart
Mr. Michael Haddad
Dr. Judith Jones
Dr. Carl McManama
Dr. Ronni Schnell

2013 OKU inductees with Dean Jeffrey W. Hutter, OKU Chapter President Dr. Stephen Polins, and Secretary Ms. Catherine Sarkis



25 Members of GSDM Community Join Ranks of OKU

The Boston University Henry M. Goldman School of Dental Medicine (GSDM) Lambda Mu Chapter of Omicron Kappa Upsilon National Dental Honor Society (OKU) held its 6th annual OKU Induction Ceremony on Thursday, May 9, 2013, at the Metcalf Trustee Ballroom. The induction was presided over by Dean Jeffrey W. Hutter, OKU chapter President Dr. Stephen Polins, and Secretary Ms. Catherine Sarkis. This year 22 graduating students, 2 faculty members, and 1 honorary member were inducted into OKU.

The student inductees included: Anca Aurelia Andronesi, Varun Arya, Nicholas Ray Baldelli, Anne Elizabeth Barnes, Christopher Robert Bickford, Michael Griffith Donovan, John Houston Greiner, Misi Huang, Michael Yury Kobakov, Hilary Jean Linton, Shuxin Liu, Nadia Malik, Martha Lucia Neely, Olutayo Adepeju Odusanwo, Fransheska Ovalles, Caitlin Marie Reddy, Danny Tse On Shum, Marjorie Silva Rapose, Melissa Michelle Smith, Taylor Nicholas Snider, Prachi Shridhar Sontakke, and Heni Tufa. Faculty inductees were Dr. Shiro Kamachi, Clinical Associate Professor in the Department of General Dentistry and Dr. Steven M. Morgano, Professor in the Department of Restorative Sciences & Biomaterials. Mr. Andrew Burke, Associate Director for Facilities & Operations, was inducted as an honorary member.

Inductees received OKU stoles to be worn at Commencement, certificates, and a symbolic key signifying their election to the prestigious national dental honor society.

Drs. Schnell and Oberhaus Awarded on McCahan Education Day

The Boston University School of Medicine (MED) Medical Education Committee and Dean Karen Antman hosted the eighth annual John McCahan Medical Campus Education Day

on May 22, 2013, in the Hiebert Lounge. This event showcases educational innovation and scholarship on the Boston University Medical Campus in honor of former MED Associate Dean of Academic Affairs Dr. John McCahan.

Two faculty members received the Boston University Henry M. Goldman Award for Innovation in Education on this day: Boston University Henry M. Goldman School of Dental Medicine (GSDM) Clinical Professor of General Dentistry Dr. Ronni Schnell and MED Assistant Professor of Microbiology Dr. Stephanie Oberhaus. This award goes to the faculty member who best exemplifies the characteristics that make our students excited about learning. This faculty member, through the use of technology or alternative modalities of teaching and assessment, has been able to inspire and motivate his/her students to achieve competency in their subject matter while enhancing student learning.

GSDM Chair of General Dentistry Dr. Judith Jones and Associate Dean for Academic Affairs Dr. Cataldo Leone presented the awards. Dr. Leone also participated on a panel of BUMC academic deans.

Associate Chair of General Dentistry Dr. Celeste Kong and Clinical Associate Professor Dr. Andrea Maalouf again represented GSDM on the McCahan Day planning committee. Several GSDM faculty members submitted abstracts:

Drs. Alexander Bendayan and Celeste Kong, "Use of Smartphone/Tablet/Laptop Friendly Audience Response System in the Classroom"

Drs. Neal Fleisher, Meg Loadholt, Carl Mcmanama, and Ana Zea, "Enhancing Clinical Observation Through the Arts"
Dr. Steve Karpas, "An Innovative Strategy for Interactive Learning about a Challenging Syndrome"

Drs. Laura Kaufman and Paula K. Friedman and Emily Abrams and Annetty Soto, "The Educational Impact of Providing Dental Care to the Oldest-Old: A Case Report"

Swathi Uppu AS 14 and Tarangini Suggala AS 14, "The Simroid"

GSDM faculty receiving Medical Campus Teaching and Service Awards included: Drs. Mark Ferriero, Cataldo Leone, Bing Liu, and Daniel Moran.

Undergraduate Education Director at the University of Calgary Dr. David Keegan gave the keynote presentation on how to develop "strategic capacity" within educational teams.

PHILANTHROPY

The Boston University Henry M. Goldman School of Dental Medicine was fortunate to have a very strong year with growth in philanthropic support from our alumni. In particular, the School had significant increases in total revenue; both gifts and campaign from alumni; corporate gifts; and the annual funds.

The School launched its 50th anniversary with an alumni reception at Yankee Dental Congress featuring 1,125 attendees—a record for alumni events at the University. During the year, the School hosted 24 events across the globe attended by 2,211 guests.

Our alumni showed great interest and excitement in the University Campaign, and are looking towards the final site selection of a proposed new facility in FY14. In FY13, two significant volunteer leaders were recruited: Dr. David Lustbader, DMD 86, as Chair of the Dean's Advisory Board and Dr. Sudha Chinta ENDO 09, as Chair of the GSDM Campaign. Both made leadership philanthropic pledges to the Campaign.

The School is fortunate to have a strong growing base of support among its alumni, friends, as well as corporate and foundation support. In this era of rising costs and limited budgets, this support has enabled the School to compete among the leading dental schools in the world. Enormous gratitude is owed to our generous supporters who have been instrumental in our continuing success.

GSDM FY13 at a Glance

- Total FY13 revenue up 34%
- Alumni revenue up 49%
- Alumni pledges up 700%
- Corporate revenue up 59%
- Annual Fund up 24%
- GSDM Class Gift Program was #1 among the 16 Schools at the University
- GSDM placed in the top three for the "Battle for BU" Alumni Participation Challenge

Total gifts and pledges for FY13 was \$2.4M.

917 donors gave to the GSDM Annual Fund and Department Annual Funds for a total of \$381,559.

The Class Gift Program, established only four years ago, boasted a 100% participation rate, which was the highest participation rate among the 16 Schools and Colleges at the University. This year's class gift was matched by Ron Weissman DMD 77, Dean's Advisory Board Member and CEO and founder of Gentle Dental; Mitch Sabbagh DMD 87,

GSDM Alumni Association President; and Dr. David Lustbader, DMD 86, Chair of the Dean's Advisory Board.

The Alumni Participation rate was 10.2% up from 9% in FY12.

We hosted 24 events attended by 2,211 alumni and guests.

We helped send 21 students to 8 countries on International Elective Externships.

Immediate Past President and current member of the GSDM Alumni Association and Dean's Advisory Board, Shadi Daher DMD 90, OMFS 94, served as President of the Boston University Alumni Council. In this role, Dr. Daher was involved with Career Networking/Mentoring, College/School Relations, Communications and Marketing, Development, Student Programming and Engagement, Regional Club Relations, and International Alumni Relations for Boston University's 16 Schools and Colleges.

Also serving on the BUAC is Pamela Baldassarre DMD 82, PERIO 84. Dr. Baldassarre is a native of Framingham, Massachusetts. She graduated from the University of Pennsylvania as a registered Dental Hygienist. Following her training as a dental hygienist she continued her liberal arts education at Boston University. After attending Boston University she then attended the Boston University School of Graduate Dentistry. She was awarded her Doctor of Dental Medicine Degree in 1982 and received her CAGS in the Specialty of Periodontology in 1984.

After her training, she worked as a part-time Assistant Clinical Instructor in Post-doctoral Periodontics at Boston University. She was in private practice in Framingham with her father, Dr. Eliot Zigelbaum, for two years before marrying and moving to Bedford, New Hampshire. Dr. Baldassarre has been in the private practice of periodontology in both Bedford and Nashua, New Hampshire, since 1985.

Currently Dr. Baldassarre is the Delegate at Large of the New Hampshire Dental Society. She is the Secretary/Treasurer for the ADA First Trustee District and Past Chair of the ADA Council on Membership. She has hospital staff privileges at the Catholic Medical Center. Dr. Baldassarre is a member of the New Hampshire Dental Society, Massachusetts Dental Society, the American Dental Association and the American Academy of Periodontology. She is a Fellow of the American College of Dentists and the International College of Dentists.

Dr. Baldassarre resides in Bedford with her husband, Dr. Marshall Baldassarre, and her two children, Laura and Gregory.

Dr. Pamela Baldassarre
outside her Nashua
practice



Alumni Events

Our regional events create opportunities for alumni and friends to engage with others in their community who share a commitment to the School of Dental Medicine and the oral health profession. Dean Hutter discussed the progress and future of the School at events from Seattle to Verona, Italy.

GSDM welcomed alums back to Boston for a very special Alumni Weekend on September 20–21, 2013. Alumni Weekend was the public launch of Boston University’s Choosing to Be Great Campaign, a \$1B comprehensive fund-raising effort. GSDM started the weekend with an Alumni Reception hosted by Dean and Mrs. Hutter at the Four Seasons Hotel in Boston. On Saturday, GSDM Alumni, faculty, staff, and students participated in the Campaign program at the Agganis Arena. Following the program, the GSDM community celebrated with a dessert reception at the Dental Health Center at 930 Commonwealth Avenue.

The Dean’s Advisory Board, led by Assistant Dean of Development & Alumni Relations Kevin Holland, is on the forefront of fundraising on behalf of the Boston University Henry M. Goldman School of Dental Medicine. Board members have played a key role in helping plan and celebrate the 50th anniversary.

The Alumni Association Board, led by then President Tina Valadez DMD 81, made a combined \$250K pledge to the campaign demonstrating their leadership. Mitch Sabbagh DMD 87, assumed the Presidency during Alumni Weekend in September.

Look at all the alumni events we hosted this year! ▶

Alumni Breakfast for DMD	Boston
Post-doc Orientation Alumni Lunch	Boston
Pre-doc Orientation Alumni Lunch	Boston
Dean’s Advisory Board Meeting	Boston
Alumni Weekend 2012	Boston
AAP Annual Session (reception 10/1)	Los Angeles
Endo Fall Meeting	Las Vegas
NY Study Club	New York City
ADA Conference (reception 10/19)	San Francisco
ACP Annual Conference	Baltimore
NESO Annual Conference	New York City
NY Study Club	New York City
Yankee Dental (reception 2/1)	Boston
NY Study Club	New York City
Alumni Reception	Scottsdale, AZ
Seattle Alumni Reception	Seattle
NY Study Club	New York City
Italian Alumni Reception	Verona, Italy
Alumni Reception at CDA	Anaheim, CA
Global Day of Service	worldwide
AAE Alumni Reception	Honolulu
Alumni Sponsored Lunch	Boston
AAO (reception 5/5)	Philadelphia
NY Study Club	New York City
DMD 4 BBQ	Boston
Alumni Sponsored Lunch	Boston
DAB Meeting	Boston
AAPD Annual Session (reception 5/25)	Orlando
AEGD Alumni Dinner	Boston
Quintessence Meeting Alumni Reception	Boston

Dr. Sudha Chinta ENDO 09 becomes GSDM Campaign Chair

Dean's Advisory Board member Dr. Sudha Chinta has agreed to serve in the highly visible role of campaign chair for the Boston University Henry M. Goldman School of Dental Medicine (GSDM). As such, she joins the leadership of The Campaign for Boston University: Choose to be Great, the University's first-ever comprehensive fundraising campaign launched in September 2012.

In this capacity, Dr. Chinta becomes GSDM's representative on the University Campaign Steering Committee, along with continuing to serve on the GSDM Dean's Advisory Board and the School's 50th Anniversary Committee. She will represent the University and School at important BU functions and events and will work to increase the involvement of GSDM alumni, particularly those on the West Coast where she is based. Dr. Chinta will also work to connect GSDM's international alumni more closely to the Campaign.

Dr. Chinta has been a generous supporter to GSDM since her graduation. She and her family have recently committed to supporting the campaign with a remarkable leadership gift.

"I am so thrilled that Sudha will play such a significant role in the campaign," noted Dean Jeffrey W. Hutter. "She is a terrific individual, and her family's deep philanthropic commitment to our efforts will hopefully serve as an inspiration to even our youngest classes. This is a time for everyone from GSDM to dream big!"

Dr. Chinta and her husband are the parents of a daughter and a son. Their daughter is enrolled in the seven-year MED program at BU, and their son is a future BU Terrier (Class of



Dr. Sudha Chinta

2020). "This is a remarkable moment in the history of the Henry M. Goldman School of Dental Medicine," Dr. Chinta said. "As a Dean's Advisory Board member, I was excited to be part of the applied strategic planning process for the GSDM. That yearlong process led to 10 goals, including facility space plans for future growth and profound curriculum changes, which the School's campaign will support. I know that my fellow alumni will be active partners with Dean Hutter and the entire School as we position GSDM for the next 50 years."

Dr. Chinta received her BDS in 1992 from the University of Bangalore, Bangalore, India, her DDS from the University of the Pacific Arthur Dugoni School of Dentistry in 1996, and her Certificate of Advanced Graduate Study in Endodontics from GSDM in 2009.

She maintains a private practice at Danville Endodontics in Danville, CA and teaches part-time in the Division of Endodontics, University of the Pacific Arthur A. Dugoni School of Dentistry. She previously maintained a private practice performing all aspects of dentistry. She is a member of the American Association of Endodontists, the American Dental Association, and the California Dental Association.

Dr. David Lustbader CAS 86, DMD 86 becomes Dean's Advisory Board Chair

Dr. David Lustbader accepted the Chairmanship of the Boston University Henry M. Goldman School of Dental Medicine (GSDM) Dean's Advisory Board (DAB). In assuming this position on January 1, 2013, he succeeded the inaugural DAB Chair, Dr. Jonathan Levine. Dr. Lustbader has served on the Dean's Advisory Board since 2009.

Dr. Lustbader attended the Boston University Seven-year Liberal Arts/Dental Education Program, BA/DMD, completing the DMD program in 1986. He then completed a training Residency at the Long Island Jewish Medical Center in New Hyde Park, New York in Oral and Maxillofacial Surgery in 1990. His training emphasis was in Orthognathic, TMJ, Reconstructive, Implant and Pre-Prosthetic Surgery.

Since 1995, he has served as a mentor and host clinician for the Applied Professional Experience (APEX) Program at GSDM. From 1988 to 1990, he served as Clinical Instructor at the State University of New York at Stony Brook School of Dental Medicine.

He holds appointments at several area hospitals including: Chief of Service, Oral and Maxillofacial Surgery at Carney

Hospital in Boston; Attending in Oral and Maxillofacial Surgery at Quincy Hospital in Quincy; Chief of Service, Oral and Maxillofacial Surgery at Milton Hospital in Milton; and Attending in Oral and Maxillofacial Surgery, Department of Surgery at the Boston Medical Center in Boston. He also served as Chairman of the Patient Care Assessment Committee at Caritas Carney Hospital from 2007 to 2011.

Dr. Lustbader is a Diplomate of the American Board of Oral and Maxillofacial Surgery; a Diplomate of the American Dental Society of Anesthesiology; a Fellow of both the International and American Colleges of Dentists. He is a member of the Alpha Omega Fraternity; South Shore District Dental Society; Massachusetts Dental Society; Mass Society of Oral and Maxillofacial Surgeons; American Dental Association; and American Dental Society of Anesthesiology. In addition, he is



licensed to practice Oral & Maxillofacial Surgery in New York and Massachusetts. Dr. Lustbader currently serves as a Trustee of the Massachusetts Dental Society. He has previously held leadership positions in numerous organizations including: Chairman and Chairman-Elect, South Shore

Dr. David Lustbader

District Dental Society; Allied Scientific Chairman, General Arrangements Chairman, Special Events Chairman, Hospitality Chairman, and Registration Chairman for the Yankee Dental Congress; Vice President and Secretary-Treasurer, Massachusetts Society of Oral and Maxillofacial Surgeons; President and Chief Medical Officer, Vice President, and Treasurer, Carney Hospital; and Scientific Advisory Board, Nobel Biocare. Dr. Lustbader has lectured and published widely.

Director of Alumni Relations, Stacey McNamee Assumes Expanded Role

Director of Alumni Relations Stacey McNamee assumed an expanded role within the Office of Development and Alumni Relations. McNamee, a longtime and beloved staff member of the Henry M. Goldman School of Dental Medicine (GSDM),

was promoted to Director of Alumni Relations and Annual Giving, and was charged with directing all aspects of departmental fundraising at the School. Working closely with department chairs, faculty, and staff, McNamee will ensure that each department effectively engages their alumni constituencies at the highest levels of communication and programming, aligning alumni in their efforts to support their respective departments.

The University and GSDM publicly launched Boston University's first ever comprehensive campaign, "Choosing to be Great," in September 2012, which will allow each School to target all fundraising dollars to their own priorities. The campaign, with an ambitious goal of one billion dollars, is focused on helping each School achieve its highest priorities. GSDM's campaign priorities were selected after an exhaustive year-long Applied Strategic Planning Project, which included input from every constituency within the GSDM community. McNamee, a member of the Applied Strategic Planning Committee, will now be focused on raising funds to support each department's highest priorities identified as critical to help GSDM achieve its goal to become the premier academic dental institution promoting excellence in dental education, research, oral health care, and community service to improve the overall health of the global population.

McNamee states, "Our alumni body is by far the greatest strength of this Institution and I have been so fortunate to count many of them as personal friends during my time at GSDM. Working with them to help achieve and promote the greatness of each one of our departments is a truly exciting opportunity."

McNamee will continue her role as primary liaison with the GSDM Alumni Association, working with Alumni Association President, Mitch Sabbagh DMD 87, and the Alumni Board to support their leadership efforts on behalf of the GSDM alumni body. As part of this role, McNamee serves on the 50th Anniversary Celebration Committee, which helped plan the



Stacey McNamee

celebration to mark the 50th anniversary of the founding of GSDM by Dr. Henry Goldman in 1963. This yearlong celebration that will include alumni events both nationally and internationally was launched on February 1 at the 2013 Yankee Dental Congress.

In addition, McNamee will lead all annual fund activities, partnering with the newly recruited Chair of the GSDM Annual Fund, Dr. Carl McManama. McNamee assumes her new role as part of a top priority of Dean Jeffrey W. Hutter to create a fully-staffed Office of Development and Alumni Relations. She will continue to report to Kevin Holland, Assistant Dean of Development and Alumni Relations. Holland says, "In the three years I have worked with Stacey, I have found her to be a tremendous resource to the Office. Given her tenure here, she knows many of our alumni personally and is tireless in helping connect alums to each other, and helping create a closer alumni body."

Alumni Board Welcomes 5 New Members

Here's what their colleagues had to say in nomination:

Joseph Calabrese and Tina Valades on Bing Liu, DMD 03:

Dr. Bing Liu would be a great addition to our alumni board as a connection to Advanced Standing Program, the Research Programs and our Alumni. Dr. Liu started his dental education (DDS 1992), research and teaching at Beijing University in, Beijing, China. He completed his DSc in Oral Biology (1999) and a DMD in the Advanced standing program (2003) and continued with teaching and research. He also owns and operates a private practice in Brockton. Bing is personable and well-liked by students and faculty and has been honored by his students and colleagues over the past 9 years.

Joseph Calabrese on Megan Ryan GMS 06, DMD 10:

To put it simply Dr. Megan Ryan is

one of the most caring, humble and giving students that I have had the pleasure of working with over my 21 years in dental education. Not only a graduate of our DMD program, but also the very popular Graduate Medical Sciences Program at Boston University. All you need to do is take a look at her CV and review the number and quality of organizations that Dr. Ryan has worked with through organized dentistry and community service. Her hard work as a student was recognized by the faculty by honoring her with multiple awards. Without Dr. Ryan, ASDA would be a shell of what it is today at our school. As a side note Dr. Ryan did not receive the outstanding ASDA award! Before the faculty voted she had already nominated a classmate that had worked very hard behind the scenes and that this would be the right thing to do. Her energy and enthusiasm for our school, her community and in life is not often seen in today's society. She just cares about every task that she takes on.

Shadi Daher on Monique Mabry Bamel DMD 90:

I am supporting her nomination wholeheartedly because I believe that Monique would be a great addition to the alumni board for many reasons. She has always shown an innate ability to organize people and events and be creative at that. She has been a leader at her synagogue and with other organizations. She has been in the Boston area throughout her dental career and has helped organize and partly hosted reunions for the DMD 90 class. She also is a philanthropist who supports the Boston Medical Center and many other causes. She takes great pride in Boston University and in her education and she is seeking ways to show that appreciation and give back.

Zhimon Jacobson on Naila Bidabadi CAS 82, DMD 87:

I am writing in support of



Dr. Bing Liu

the nomination of Dr. Naila Bidabadi, who received her Bachelor of Science degree in Biology from Boston University and then continued with her DMD degree at Henry M. Goldman School of Dental Medicine. She currently teaches at Harvard University and has two private offices in Brighton and Newton. She enthusiastically supports the mission of GSDM and is eager to serve on the alumni board. She is honest, reliable, and generous. She conducts herself with the highest ethical and moral standards. I support this nomination without any hesitation.

Tina Valades on Robert Miller DMD 84, PERIO 86:

Robert (Bob) J. Miller received his DMD in 1984, and Certificate of Advanced Graduate Study in Periodontology in 1986. Bob belongs to several professional organizations and has practiced in Plantation and Boca Raton, Florida since 1986. He has been an examiner on the Florida Dental and Dental Hygiene Boards since 1993. Bob has lectured nationally and internationally on several areas of Periodontology and Dental Implants. He has also lectured to Residents and Dental Hygiene students in Florida. Bob has been helping us connect to our Florida alumni for our signature events for the past two years. Bob is eager to become more involved in our Alumni Association, and looks forward to connecting with our Alumni when traveling to lecture.

STUDENTS

Josephine Verde DMD 13 Elected Representative of AAWD Board

Josephine Verde DMD 13, recipient of the Boston University Women's Council Scholarship for the 2012–13 academic year and President of the Boston University Henry M. Goldman School of Dental Medicine (GSDM) chapter of the American Association of Women Dentists (AAWD) was elected senior student representative of the AAWD 2013 National board of directors.

The mission of the AAWD is to become the recognized resource for connecting and enriching the lives of women dentists. First organized in 1892, the core undertakings of today's AAWD include mentorship, networking for employment opportunities, and scientific exchange.

Verde has worked on several community service projects with the GSDM chapter of the AAWD. In 2011, she spearheaded a monthly community service initiative called "Women to Women," which aims to improve the oral health of the women of Rosie's Place, a sanctuary for poor and homeless women. In February 2012, she organized a clothing drive for Rosie's Place with Asian Dental Student Organization (ADSO) President, Michelle Vo DMD 13.

Verde's new role as senior student representative for the AAWD 2013 National board of directors includes attending national meetings in Chicago, San Diego, and New Orleans. Overall, she will be able to expand her participation in the AAWD's mission to enrich the lives of women in dental medicine.

APEX Presentations Reflect High Quality Research at GSDM

On August 10, 2012, students and faculty filled a classroom to standing room only to listen to nine DMD 15 students and one DMD 14 student present research they conducted during their Applied Professional Experience (APEX) rotations.

The APEX first-year research rotation is based on a five-day week. Students may either dedicate two days for research training and three days for the APEX clinical assignment or three days (30 hours) for research training and two days for the APEX clinical assignment. The latter enrolls students in the Intensive Research Elective Course and is possible if they have participated in research during the second semester of their dental education on a voluntary basis or if they have prior research experience.

From explorations of the strength of different bonding materials to investigations to isolate the genetic source of a hereditary tooth development disorder, the students addressed a wide breadth of topics in their research.

The DMD 15 presenters were Benjamin Cooperman, Suyong Jeong, Matthew Green, Sara Saremi, Christopher Connell, Sonal Chhnbhai, Isha Suri, Shan Lo, and Erin Breen. Eric Harriman DMD 14 also presented.

SNDA Kicks Off an Eventful Year

Around 50 pre-doctoral students attended the kick-off meeting of the Student National Dental Association (SNDA) on Monday, August 21, 2012. The SNDA is an organization dedicated to advancing minority students in dentistry and helping the underserved.

Current SNDA leaders Brittney Barrow DMD 14, Lindzy Goodman DMD 14, and Wyatt Traina DMD 14 ran the meeting and also introduced new members to SNDA's new faculty liaison and GSDM Director of Diversity & Multicultural Affairs Dr. Larry Dunham.

Students learned about the many opportunities available through SNDA, such as helping acquaint new students to the School of Dental Medicine, community service, national travel opportunities, and SNDA's most popular fundraiser, the annual Student-Faculty Basketball Game.

Externship in Chiligatoro, Honduras, "Changes the Way You Think"

Yunji Lee and Nadia Malik, both DMD 13, spent a week together in the village of Chiligatoro, Honduras, sleeping in sparse beds and taking cold showers. Yet, they describe it as one of the best trips they have ever taken.

The two fourth-year dental students participated in a life-changing international externship from September 8 through 15, 2012, with the organization Medico, a nonprofit humanitarian service organization that has been providing comprehensive health care in Central America since 1990. Lee and Malik saw about 100 patients each day and worked with a team of 20 people including dentists, translators, and other individuals looking to help in any way they could.

Lee and Malik performed both fillings and extractions for people who walked and waited hours to be treated. The remote location presented new challenges for them. Both Lee and Malik regretted they were unable to save more teeth

from extraction, but they knew that they, along with their group leaders, had made the best decisions for the patients. Lee and Malik's trip was funded by donations to the Henry M. Goldman School of Dental Medicine DMD Annual Fund.

Andrew Jorgensen DMD 13 Fulfills His Wish to Help People Smile

Andrew Jorgensen DMD 13 has received well-deserved attention for his service to the community at large and for his excellence as a dental student of the Boston University Henry M. Goldman School of Dental Medicine (GSDM). Jorgensen was chosen as the first BU student to be presented on Boston University Provost Jean Morrison's newly launched website feature, Faculty & Student Spotlight. Jorgensen's Student Spotlight was titled "From Rockets to Retainers." He was also featured in BU Today on September 17, 2012, in a story and video by Robin Berghaus titled "Extreme Dentistry in a Faraway Place: BU dental student takes his skills to Alaska."

Both accounts convey the story behind Jorgensen's choice of dentistry as a profession. His first career choice was to be an engineer. However—according to the Student Spotlight story—Jorgensen found aerospace engineering too intangible, in practice, and decided to move on.

Jorgensen included two criteria in his search for a new profession: that the job would help people and that he would work with his hands. This is the path that led to GSDM.

Having now graduated, Jorgensen truly began to realize his career aspirations, as were apparent in his three-week summer externship to Bethel, Alaska.

Residents of Honduras walked hours to be seen by dentists.



Bethel lies in Alaska's Yukon-Kuskokwim Delta and is inaccessible by road. The area—as described by Robin Berghaus in "Extreme Dentistry"—has a Yupik Eskimo population with insufficient access to dental care and that has a dental decay rate that varies between 7 and 10 times the national average.

Students Explore Culture and Clinic on Guatemala Externship

Jennifer Rubin DMD 13 and Elizabeth Ponder DMD 13 volunteered for two weeks in Comitancillo, Guatemala (Comi), with Dentistry for All (DFA) and its founder, GSDM alum Brad Krusky DMD 93. The experience was educational in not only a clinical, but also a cultural sense.

Rubin and Ponder immersed themselves in the traditional Mayan culture of "Comi." They learned the town's unique handshake. In keeping with conservative customs (which apply to both women and men) they covered their knees and toes and sometimes wore the floor-length traditional skirts local women wear. They had dinner with the mayor, his wife, and his children, and treated them in the clinic later that week.

DFA is unique in that it charges patients a small amount for treatment (equal to about 70 cents). The money goes to a charity to benefit Comi, so the money goes back to the town. In Comi and surrounding villages, many residents are in need of decent clothes and shoes that do not have holes. DFA brought new and gently used shoes and clothes it had collected in the U.S. Patients with the greatest need were offered the chance to choose what they needed from this collection. DFA returns to the area every six months, so residents are likely to have follow-up appointments with dentists. Rubin and Ponder worked from around 7 a.m. to 6 p.m. and treated seven or eight patients daily. The DFA team treated about 500 people in their two weeks in Comi.

Rubin noted that the experience proved to them and their mentors how superior the DMD education was at GSDM. In addition to extractions and restorations, Rubin and Ponder made stainless steel crowns for adults and even made veneers for an 11-year-old girl with a malformation that caused staining across many of her teeth.

DFA is a relatively new externship to GSDM, and this was only the third time GSDM students have joined DFA in Guatemala. Previously, Stephanie Trajan and Katy Bednar went in 2011 and 2012, respectively. All students, including now Rubin and Ponder, expressed interest in returning as soon as possible.

ADSO Shares Growth Plans at First Meeting of School Year

On Wednesday, November 7, 2012, the first general meeting of the GSDM chapter of the Asian Dental Student Organization (ADSO) was held for the 2012-2013 school year. The organization is relatively new to GSDM, with this being its second year on campus.

The mission of the ADSO is to promote collegiality and collaboration among dental students of Asian heritage. They are future health care leaders dedicated to promoting Asian culture within the dental profession. Through volunteer work, and group events, they strive to make a positive impact in their local communities while embracing diversity and cultural learning.

ADSO President Michelle Vo DMD 13, Treasurer Tam Nguyen DMD 13, and Faculty Advisor Kathy Lituri addressed the group, discussing last year's volunteer efforts and plans for the upcoming year.

ADSO is focused on building membership and continuing its volunteer efforts. Three major events in which the members participate are the Wang YMCA holiday party, Tet in Boston New Year Festival in Dorchester, and Healthy Kids Festival at the Boston Children's Museum. As the organization grows, it seeks new volunteer opportunities as well. ADSO also fosters relationships with comparable groups at Harvard University School of Dental Medicine and Tufts University School of Dental Medicine.

ADSO Spreads Cheer in Chinatown

The GSDM chapter of the Asian Dental Student Organization (ADSO) attended its first major volunteer event of the academic year at the Wang YMCA Holiday Party on Sunday, December 9, 2012. ADSO President Michelle Vo DMD 13, Treasurer Tam Nguyen DMD 13, and Faculty Advisor Kathy Lituri organized the volunteer effort at this annual holiday party for children and their families.

GSDM has participated in this event for the past seven years. Previously, the Vietnamese Student Dental Association organized volunteers. Now, the event is one of three for ADSO.

ADSO set up tables with age-appropriate, interactive, oral health activities and information. Volunteers spoke with children and their families about oral health and served as role models for the children interested in oral health careers.

The volunteers: Abdul Rahman Addas AS 14, Mohammed

Amer AS 14, David Cheng DMD 16, Hussain Erum AS 14, Alejandro Lander DMD 16, Lana Le DMD 16, Aaron Mertz DMD 16, Pathik Shah AS 14, Ian Teng DMD 16, and Jenny Lee, a pre-dent student.

GSDM Students Promote Oral Health at Boston Sikh Sangat Society Oral Health Fair

On Sunday, January 27, 2013, 13 students from the Boston University Henry M. Goldman School of Dental Medicine (GSDM) and Oral Health Promotion Director Kathy Lituri participated in the Boston Sikh Sangat Society Oral Health Fair.

The Fair was sponsored by the School's Division of Community Health Programs (CHP) and organized by GSDM students Varun Arya, Harminder Kaur, and Satinder Pandher, all AS 13.

The volunteers were: Varun Arya AS 13, Jithendar Bhonagiri AS 13, Ramandeep Jhandi AS 14, Harminder Kaur AS 13, Sukhjinder Kaur AS 14, Satinder Pandher AS 13, Ryan Pasiewicz DMD 15, Kabir Sandhu Ram AS 13, Neelam Shah DMD 14, Ritu Singh AS 13, Kanchan Thind AS 13, Kirpal Toor AS 14, and Jaspreet Warring DMD 14.

The GSDM volunteers offered health promotion, education, age appropriate activities, screenings and referrals. They screened 33 adults and 39 children, a total of 72 people.

GSDM Student Awarded ADCFP Fellowship

Marc Horton DMD 14 was selected for the 2013 ADEAGies/AADR Academic Dental Careers Fellowship Program (ADCFP). Chair of the Department of Health Policy & Health Services Research Dr. Raul Garcia and Associate Dean for Global & Population Health Dr. Michelle Henshaw serve as his Mentors.

The ADCFP Fellowship Program provides dental and allied dental students at US and Canadian institutions with an opportunity to experience the benefits and rewards of teaching and an academic career.

Horton was among 10 students selected for the ADCFP Fellowship. His yearlong Fellowship includes interviewing Dean Jeffrey W. Hutter and several other faculty members from different departments at the Boston University Henry M. Goldman School of Dental Medicine (GSDM) to learn about academic dentistry. The Fellowship also includes assisting with instruction in a classroom (didactic course), a pre-clinical lab, a small-group conference, and in the patient treatment center.

Horton, Dr. Garcia, and the other ADCFP Fellows and Mentors attended a training session and participated in a number of events at the 2013 ADEA Annual Session & Exhibition in Seattle. The purpose of these sessions was to familiarize Fellows and Mentors with the Fellowship goals and explain how the Mentor-Fellow relationship works within that framework.

At the end of the Fellowship, Horton and the other Fellows will present a poster detailing their experience and participate in a seminar at the 2014 ADEA Annual Session & Exhibition in San Antonio, Texas.

Two GSDM Students Win ADAF Student Scholarships

The American Dental Association Foundation (ADAF) awarded scholarships to two Boston University Henry M. Goldman School of Dental Medicine students. Benjamin Cooperman DMD 15 is 1 of 31 recipients of the Predoctoral Dental Student Scholarship for this academic year and Matthew Garcia DMD 15 is 1 of 19 to receive the Underrepresented Minority Dental Student Scholarship for 2012–13. Both awards are for \$2,500.

The ADAF student scholarships are awarded to ease the burden of professional education expenses for academically gifted students.

GSDM's SNDA Hosts First Ever Impressions Day

On Saturday, March 2, 2013, Boston University Henry M. Goldman School of Dental Medicine's (GSDM) Student National Dental Association (SNDA), American Student Dental Association (ASDA) and Hispanic Student Dental Association (HSDA) launched the first SNDA Impressions program in the School's history.



Step and repeat!
Students honored at ASDA Annual Session in Atlanta

Impressions is a flagship event for SNDA chapters nationwide. The program encourages and educates pre-dental students by inviting them to campus and introducing them to several aspects of dental school and GSDM in particular.

Forty-two pre-dental students from local colleges and universities joined forty GSDM student volunteers at the School to participate in the daylong program. Their schedule included presentations led by Assistant Dean of Students Dr. Joseph Calabrese and Director of Diversity & Multicultural Affairs Dr. Larry Dunham, information sessions from the GSDM Admissions Office and Kaplan Test Prep, a School tour, an interviewing skills workshop, a session in the Simulation Learning Center (SLC), and a presentation about taking the Dental Admissions Test (DAT).

GSDM Students Honored at ASDA Annual Session in Atlanta

Six students from the Boston University Henry M. Goldman School of Dental Medicine (GSDM) attended the 2013 American Student Dental Association's (ASDA) Annual Session, March 6–9 in Atlanta, Georgia.

GSDM attendees were: Sammy Gill DMD 14, Antonio Maceda-Johnson DMD 15, Jessica Metcalfe DMD 15, Zara Nensey DMD 14, Khamir Patel AS 14, and Jay Patel DMD 14.

Jenny Lorenzo DMD 13 and Fransheska Ovalles DMD 13, Chair and Vice Chair, respectively, of the Community Outreach Committee of GSDM's ASDA chapter—with assistance from Oral Health Promotion Director Kathy Lituri and Assistant Director of Student Affairs Erica Manczuk—applied for the Crest Oral B/ASDA Community Dentistry Award on behalf of the School. GSDM won third place, a result of its chapter's efforts serving local communities by providing stellar dental care and education.

Sammy Gill was elected District 1 Trustee, a unique and significant honor. Gill will represent all District 1 dental schools (GSDM, Harvard School of Dental Medicine, Tufts University School of Dental Medicine, and the University of Connecticut School of Dental Medicine) and serve on the ASDA Board of Trustees. District trustees guide chapters in their district and act as the official liaison between the local chapters and national ASDA. ASDA, an organization with 17,000 student members, represents 88 percent of dental students. They have two recognized delegates at the house floor at ADA and have a unique relationship with ADEA.

Khamir Patel introduced a resolution in the House of Delegates to create a list serve of Advanced Standing students across the country. Patel and the other GSDM students were ecstatic when the resolution passed.

Persian New Year Celebration Ushers in Spring

On March 25, 2013, 80 Boston University Henry M. Goldman School of Dental Medicine (GSDM) students, faculty, staff, and friends gathered in the School cafeteria for a Persian New Year Nowruz Celebration.

The Nowruz celebration was sponsored by the Boston University chapter of the American Student Dental Association. The main organizers of the event were Kaveh Baharvand Ahmadi AS 14 and Hamid Fakhri AS 14, who worked with Assistant Dean of Students Dr. Joe Calabrese, Director of Diversity & Multicultural Affairs Dr. Larry Dunham, and Assistant Director of Student Affairs Erica M. Manczuk.

A celebration of spring, Nowruz—meaning “The New Day” in Persian—marks the first day of the Persian calendar. The occasion symbolizes nature’s renewal and rebirth after the passing of winter.

The GSDM Nowruz celebration featured a traditional Haft-Seen (“the seven ‘S’s”) table, which includes seven items starting with the letter ‘seen’ of the Persian alphabet. Each item signifies a different aspect of the new year. Also featured was an Iranian dance group called the Aftab Dance Group. Persian food was provided by Molana Restaurant in Watertown.

Schweitzer Fellow Andrew Soule-Hinds DMD 15: On a Mission to Improve Dental Care for Underserved

Boston University Henry M. Goldman School of Dental Medicine (GSDM) student Andrew Soule-Hinds DMD 15 was chosen in March 2013 for the highly selective Boston Albert Schweitzer Fellowship. He joins the nearly 500 Schweitzer Fellows who have collectively delivered over 90,000 hours of service to communities in and around Boston and Worcester since the program’s founding in 1992. Each Fellow executes a yearlong project that provides service to the local population.

According to the Schweitzer Fellowship website, “the Boston Schweitzer Fellows Program is the oldest of thirteen Schweitzer program sites across the U.S. dedicated to developing a pipeline of emerging professionals who enter the workforce with the skills and commitment necessary to address unmet health needs.”

The Henry M. Goldman School of Dental Medicine, in collaboration with Boston University’s School of Medicine, School of Public Health, and Sargent College, sponsored Boston University’s membership in the Schweitzer Fellowship Program’s Consortium of Universities. The fellowship provides talented

Aftab Dance Group performed for Nowruz



students from diverse health professions the opportunity

to become leaders in service by learning from nationally recognized experts and from each other. By entering into the consortium, the University has ensured that the four remarkable Schweitzer Fellows from Boston University will have a structured venue to share their knowledge, skills, and expertise with each other and the opportunity to jointly design and implement an outreach project for an underserved community in Boston.

Past fellows have had a tremendous impact on the health and quality of life of the communities they served and report that the fellowship was one of the most meaningful experiences of their education.

This is the second year in a row that a GSDM student has chosen to dedicate their service to the community under a Schweitzer Fellowship. As a 2012–13 Schweitzer Fellow, Dhara Shah DMD 13 has been working on a mission to establish a sustainable and duplicable dental program with Harbor Area Early Childhood Center.

The target population for Soule-Hinds’s project is survivors of human trafficking living in the greater Boston area, typically women in their twenties. These survivors usually have had little or no health care while being trafficked, including oral health care.

A significant part of Soule-Hinds’s project is dedicated to learning more about the needs of human trafficking survivors, especially gaining specialized sensitivity training to understand how to customize a treatment environment for people who have endured this specific type of trauma. He will be working with the non-profit organization Amirah, dedicated to providing “whole person aftercare for survivors of commercial exploitation.” His goal is to add oral health care to the health services offered by Amirah.

The execution of Soule-Hinds’s project will entail coordinating oral health care for the human trafficking survivors. These appointments will take place in a customized environment where the survivors will be treated by GSDM practitioners who have undergone sensitivity training. The long-term goal is to

STUDENTS

establish a working relationship with Amirah so that GSDM can continue to help survivors of trafficking.

Soule-Hinds first became aware of populations underserved in medical and oral health care as he grew up in rural Maine. Though he didn't know what form it would take, he knew that he wanted to bring oral health care to people who would otherwise not be able to obtain it.

Dental Assisting Graduates Celebrate Achievements

On Friday, April 12, 2013, Boston University Henry M. Goldman School of Dental Medicine's (GSDM) Division of Continuing Education (CE) held its Dental Assisting Graduation. Five students earned their certificates after completing a nine-week program at GSDM.

The graduates were: Wilder Belizaire, Ariane Buchholz, LaStarr Christopher, Javier Gallardo, and Michael Newman.

Dr. Zhimon Jacobson, Director of the Division of Continuing Education, handed out the certificates and joined Dean Jeffrey W. Hutter, the graduating students, and their families to celebrate their achievements.

CE's Dental Assisting Training Program combines lectures and hands-on classes, and teaches the essential skills and responsibilities required to work as a dental assistant.

A Lecture Leads to Life-Changing Cleft Palate Repair Mission in Colombia

To Erik Harriman DMD 14, cleft lip and palate repair surgery is, "one of the most profound ways [dentists] can impact people, especially in the third world." Thus, when Dr. Lawrence Herman gave a guest lecture on cleft lip and palate in one of Harriman's classes and talked about his regular participation in volunteer oral surgery missions, Harriman was exceptionally attentive. Dr. Herman—a faculty member of both Boston University Henry M. Goldman School of Dental Medicine (GSDM) and Tufts University School of Dental Medicine—emphasized the responsibility that dentists have to give back to people who are underserved.

Inspired by the lecture, Harriman approached Dr. Herman to offer his assistance as a volunteer in any way he could. The eventual outcome was Harriman accepting an offer to accompany Dr. Herman on a mission to Apartado, Colombia, to assist in surgeries to repair the cleft lips and palates of people who lack access to proper medical care for the condition. The trip was headed by the non-profit organization Healing the Children,

whose mission is to extend medical care to all children.

Between April 13 and 21, 2013, Harriman assisted with about 35 surgeries during the mission in Colombia. The oral surgeons performed cleft lip, cleft palate, alveolar cleft, pharyngeal flap, lip revisions, and rhinoplasty surgeries. Harriman assisted the oral surgeons during surgery and the anesthesiologist in inducing and maintaining general anesthesia throughout procedures.

Several of the 149 families who visited the mission clinic traveled on foot. And for some, it was the farthest they had been in their life.

Harriman was surprised by the relatively large portion of adults with untreated cleft lip and palates: about 30% of those treated were

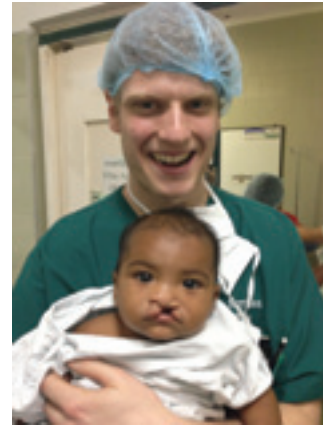
over the age of 14. In the United States, children who are born with the facial abnormality caused by the non-fusion of natural body structures during gestation have access to a series of surgeries to repair the lip and palate. These steps toward repair begin when they are infants.

The condition can lead to many other health issues, including trouble with speech and hearing and also with eating. Many of the patients that Harriman saw at the clinic were suffering from these secondary problems.

GSDM resident Jingyi He OMFS 13 also participated in the mission. Harriman reports that he found her a great help and that, since the trip, she has acted as a mentor.

Though the trip involved travel, it could not be described as a vacation. Harriman assisted at the clinic from 7 a.m. to about 9 p.m. During that time, he had many conversations about anatomy with the surgeons, absorbing as much knowledge as possible.

"A life changing experience" is how Harriman describes his mission trip to Colombia, something that he will remember for the rest of his life. He hopes that it will mark a turning point as he sets his sights on specializing in oral surgery.



Erik Harriman
DMD 14

COMMUNITY

CHP Teams Up with Homeless Shelters for Children's Oral Health

Losing a home, even temporarily, can have a terrible impact on a child's ability to attend and do well in school. The Homeless Education Resource Network (HERN, formerly the Homeless Student Initiative) supports homeless children so they can have "stable learning experiences in school." GSDM's Division of Community Health Programs teamed up with HERN at a symposium for homeless shelter providers. The aim of the event was to inform the participants how to maintain wellness in themselves and their clients. About 50 people attended the event at Jubilee Christian Church in Mattapan on May 17, 2012.

Clinical Instructor Dr. Lina Benslimane and Dental Health Educator Krissie Gibbs set up tables and gave out samples of toothbrushes, toothpaste, and flyers about the Smart Smiles Program in Boston Public Schools.

The event was sponsored by Boston Public Schools. Other participating groups included the Boston Public Health Commission, Boston Medical Center, Shell Education, school teachers and support staff, shelter directors, and case managers.

CHP Volunteers Team Up with MYCHIP

The Masonic Youth Child Identification Program (MYCHIP) helps families prepare for the frightening possibility of a missing child by collecting unique identifying information from children that can be vital to a child's return. The Masons of Massachusetts partner with the Massachusetts Crime Prevention Officers Association and the Massachusetts Dental Society to offer this free program. The program establishes identity records for families by collecting brief video interviews, fingerprints, toothprints, and DNA from cheek swabs from children in the community. Since its inception in 1988, MYCHIP has identified more than 275,000 children and continues to assist families today.

Led by the Division of Community Health Programs (CHP), a team of two GSDM faculty sponsors and three GSDM students worked as volunteers for a MYCHIP event at the 26th Annual Charles C. Yancey Book Fair on Saturday, July 7, 2012. The faculty sponsors for the event were Drs. Ana Keohane and Gladys Carrasco. The Book Fair took place at the Reggie Lewis Sports Complex on Tremont Street in Boston.

The GSDM student and faculty volunteers assisted in the

MYCHIP effort by taking toothprints and cheek swabs. Like fingerprints and DNA, the tooth bite prints are unique to every individual. The volunteers carefully took toothprints from the children and gently swiped the children's cheeks with cotton swabs to collect their DNA material. Overall, the event was a great success and made a substantial contribution to the community.

The student volunteers: Jenny Lorenzo DMD 13, Venkata Siva Prasad Bandi AS 13, and Lindy Su DMD 13.

New Students and Other Volunteers Make Operation Stand Down a Dental Success

The 2012 Massachusetts Operation Stand Down was held on August 24 and 25, 2012, at the International Brotherhood of Electrical Workers (IBEW) 103 in Dorchester for the second consecutive year. GSDM students volunteered under the direction of Oral Health Promotion Director Kathy Lituri, providing dental screenings to 91 participants.

There was an impressive volunteer turnout. Incoming DMD 16 students—some of whom were volunteering at their first CHP event—were especially enthusiastic.

The group also offered denture cleaning and labeling and oral health supplies such as toothbrushes, toothpaste, dental floss, and denture kits. GSDM worked with Healthcare for the Homeless again to refer veterans who are homeless or living in a shelter.

The Massachusetts Stand Down is cohosted by Volunteers of America Massachusetts and the Department of Veterans Affairs to provide free services to homeless veterans or veterans at risk of becoming homeless.

The volunteers: Steven Armbrust DMD 16, Solafa Ayoub DPH 15, Christopher Balaban DMD 16, Ella Botchevar DMD 14, Matthew Dekow DMD 14, Tarek Elmajie DPH 13, Ashley Gomes DMD 14, John Greiner DMD 13, Hebah Hamdan DPH 15, Zaina Kalthoum DPH 15, Andrea Lam DMD 16, Minh-Phumg (Lana) Le DMD 16, Lindsey Nowland DMD 16, Oliutayo Odusanwo AS 13, Christian Peralta DMD 13, Satinder Kaur Pandher AS 13, Delsaz Sultan AS 13, and faculty Ms. Kathleen Held, Ms. Kathy Lituri, and Ms. Ana Keohane.

GSDM Celebrates Ninth Year Volunteering at Countdown to Kindergarten

For the ninth consecutive year, volunteers from the Boston University Henry M. Goldman School of Dental Medicine

(GSDM) participated in Boston Public School's annual Countdown to Kindergarten Citywide Celebration. This year's event was held on August 28, 2012, at the Boston Children's Museum.



**Andrea Lam DMD 16 as
Captain Cavity Fighter**

Countdown to Kindergarten engages families as their children transition to kindergarten, providing information about community resources, early learning opportunities, and answers to outstanding questions about school. During this year's event, children had the opportunity to tour the museum exhibits, climb onto real buses, and meet Mayor Thomas Menino and Superintendent of Boston Schools Dr. Carol R. Johnson.

Organized by GSDM members of the American Student Dental Association and Community Health Programs, 29 volunteers provided dental screenings as well as hands-on, interactive activities promoting oral health to the children and their families. Oral Health Promotion Director Kathy Lituri and Clinical Instructor of Health Policy & Health Services Research Ana Keohane volunteered alongside the students.

GSDM's caries-fighting superhero Captain Cavity Fighter also made an appearance. Once again, the GSDM faculty and students successfully provided crucial assistance and dental health education to the local community at Boston's Countdown to Kindergarten.

Student volunteers included Assal Abdossalehi DMD 16, Britney Barrow DMD 14, Ella Botchevar DMD 14, Kimoyi Cho DMD 14, Alexandra Costa DMD 14, Shelby Curtis DMD 16, Marina Gonchar DMD 14, Erik Harriman DMD 14, Ben Irzyk DMD 14, Courtney Knapik DMD 16, Anna Komnatnaya DMD 16, Andrea Lam DMD 16, James Lee DMD 14, Jenny Lorenzo DMD 13, Rachel Lukas DMD 13, Keely Matheson DMD 15, Tam Nguyen DMD 13, Maidelys Oliva DMD 14, Fransheska Ovalles DMD 13, Ryan Pasiewicz DMD 15, Elizabeth Ponder DMD 13, Drew Popper DMD 14, Hasti Sabbaghan DMD 16, Neelam Shah DMD 14, Delsaz Sultan AS 13, Delphine Suyoung Jeong DMD 15, Raquel Valido DMD 14, Karina Vergara DMD 14, and Alana Yip DMD 14.

Health, Not Baseball, Draws Children to Fenway

The halls inside Fenway Park were packed wall-to-wall with middle school children and their families on August 29, 2012, but they weren't there to see the Red Sox. They were there for Boston Public Schools' Middle O! Middle School Orientation Event, an evening for sixth grade students attending a new Middle School.

Students from the GSDM chapter of the Student National Dental Association (SNDA) sponsored the community outreach opportunity for students at GSDM and worked alongside Oral Health Promotion Director Kathy Lituri and Clinical Instructor Ana Keohane. Wally the Green Monster stopped by to pose for photos with GSDM students and faculty.

GSDM volunteers conducted screenings; distributed mouthguards, toothbrushes, and toothpaste, played oral health-related games with children such as Guess the Celebrity Smile and Go, Slow, or Whoa!; and set up educational stations addressing oral health careers, the dangers of tobacco, and diabetes and oral health. At many of the volunteering organizations' tables, children could earn tickets by playing games or answering questions. They later traded in their tickets for school-related prizes, such as highlighters, post-its, and glue.

GSDM Volunteer Efforts Endure at Rosie's Place

On Friday, September 14, 2012, the BU Chapter of the American Association of Women Dentists (AAWD) continued its mission at Rosie's Place—a sanctuary for poor and homeless women—with an event called Women to Women.

The monthly initiative is accomplished in collaboration with the Boston University Henry M. Goldman School of Dental Medicine (GSDM) Division of Community Health Programs (CHP) and the Wellness Clinic at Rosie's Place.

The goal of Women to Women is to evaluate and address the oral health needs of the women seeking assistance at Rosie's Place. Under the guidance of Oral Health Promotion Director Kathy Lituri, Women to Women volunteers spent time answering oral health related questions, distributing home care products, and offering dental screenings and oral health advice. All GSDM students are encouraged to volunteer for Women to Women, including men and those who are not members of AAWD.

Women to Women is an initiative that is not only a great service to the local community, but an excellent opportunity for students to gain a better understanding of the issues facing the women at Rosie’s place.

The student volunteers were Tam Nguyen DMD 13; Zara Nensey DMD 14; Fernando San Juan DMD 14; Hunji Kim DMD 15; Marissa Kobewka DMD 15; Jae Kwak DMD 16; and Rachel Meshell, a Pre-Dental intern from Sargent College.

HIV Dental Work Group a Learning Experience for Students and Dental Professionals

A large group of GSDM students volunteered at the HIV Dental Work Group booth at the Yankee Dental Congress (YDC) 2013 from January 31 to February 2, 2013. They joined students from Boston-area dental and dental hygiene schools and staff from our School and the Boston Public Health Commission (BPHC).

The HIV Dental Work Group is part of the BPHC AIDS/HIV Ombudsperson Program, the dental program that facilitates access to oral health care for people with HIV. The goal of the HIV Work Group is to not only get accurate information to the dental profession but also to give students an opportunity to learn more about issues related to dentistry and HIV.

Volunteers also collected food, which was donated to programs for people with HIV in Massachusetts. This was the 15th year the Group has exhibited at YDC.

The volunteers: Solafa Ayoub DPH, Eamon Cherry DMD 15, Kayla Cuddy DMD 16, Michelle DaRocha DMD 15, Tarek Elmajje DPH, Lindzy Goodman DMD 14, Matthew Green DMD 15, Hebah Hamdan DPH, Thomas Hernon DMD 13, Marc Horton DMD 14, Zaina Kalthoum DPH, Mohamed Kamel DMD 13, Nicholas Koren DMD 15, Andrea Lam DMD 16, Michael Lee DMD 15, Rachel Lukas DMD 13, Champaka Nagaraju AS 14, Abhishek Patel AS 14, Sirisha Rao DMD 14, and Hajra O. Sheikh AS 14.

Students and Alums Contribute to Improving Global Oral Health in Panama

One sign that Melissa Knudsen DMD 13 and Rachel Lukas DMD 13 were on a valuable mission in Panama: their emergency contact phone number while there was the Office of the First Lady. The two Boston University Henry M. Goldman School of Dental Medicine (GSDM) students, together with a team of dentists and health workers, provided dental services to more than 600 patients during their visit to the town of

Pedasi. GSDM was well-represented in the outreach group, which included alumni Jose Alamo DMD 06, Frank Casarella DMD 88, Steve MacHardy DMD 07, Christina Thompson DMD 06, and Elizabeth Walker DMD 06.

From January 18 to 28, 2013, the GSDM students and alumni joined a mission in Pedasi, Panama, headed by Northeast Volunteer Optometric Services to Humanity (NEVOSH). NEVOSH—originally an organization focused on providing vision care, globally, to those who cannot afford or obtain it—now treats a spectrum of health conditions in its Central America clinics.

The cultural and clinical situations provided by international externships present unique learning opportunities for dental students. In Pedasi, Knudsen and Lukas saw many people who had never been to a dentist and numerous children whose baby teeth were extensively decayed. They also saw some conditions that they had previously seen only in textbooks, such as extreme calculus buildup. The two became much more confident in their extraction skills, more self-assured in screening decisions, and more efficient overall. Knudsen and Lukas also benefited from both one-on-one mentorship and the chance to work on their own.

GSDM Collaborates with Mil Milagros “A Thousand Miracles” in Guatemala

To those familiar with Boston University Henry M. Goldman School of Dental Medicine (GSDM) community outreach programs, it may not come as a surprise that the School recently partnered with an organization whose name translates from Spanish as “a thousand miracles.” In January 2013, GSDM Assistant Director of Extramural Programs Ms. Kathy Held and frequent international externship supervisor Dr. Fred



After lunch, the children brush their teeth as part of Mil Milagros’ health and hygiene program.

COMMUNITY

Kalinoff joined the organization Mil Milagros to lead a fluoride clinic at a school in Chutinamit, Guatemala.

Mil Milagros is a Boston-based non-profit organization founded in 2007 by Margaret Blood. The organization works in Guatemala with the mission to prevent malnutrition and hunger and to ensure that children complete sixth grade, literate and healthy.

Under the direction of Held and Kalinoff, 42 children from Chutinamit and the nearby community of Xecotoj received fluoride treatments and toothbrushes. While there, Held trained 15 mothers as well as Mil Milagros staff members to administer fluoride treatments. The training will enable the mothers and staff to add fluoride treatment to their services, helping prevent cavities, tooth decay, and hypersensitivity. In addition, Mil Milagros' very own Captain Cavity Fighter was on hand to give a lesson on good oral hygiene to the children.

This recent collaboration of GSDM with Mil Milagros represented a potential future partnership between the School and the organization for an additional international externship opportunity for dental students. Most importantly, it presented an opportunity to improve the oral health of disadvantaged children.

Service Abounds in the Month of April

Throughout April 2013 Boston University students, faculty, staff, alumni, and their families and friends participated in Global Days of Service, an initiative offering service opportunities to BU friends worldwide. At GSDM, Global and Population Health and Alumni Relations offered several volunteer opportunities designed specifically for our Henry M. Goldman School of Dental Medicine family.

Clothing (and more) drives

Each week in April, Global and Population Health organized collections for local organizations, including Cradles to Crayons (April 1–5), the Salvation Army and Orchard Gardens School (April 8–12), the Greater Boston Food Bank (GBFB) (April 15–19), and Rosie's Place and Pine Street Inn (April 22–26). A total of approximately 560 items were collected.

Clinical Instructor Lina Benslimane, Assistant Professor Corinna Culler, Clinical Instructor Dee Devlin, and Oral Health Promotion Director Kathy Lituri helped organize the collections.

For Cradles to Crayons, GSDM volunteers collected clothes and shoes for children newborn to age 12.

For the Salvation Army, volunteers collected back-to-school supplies, including backpacks, markers, crayons, notebooks, lined paper, construction paper, pencils, pens, and rulers.

For Orchard Gardens School, where GSDM often runs community health programs, volunteers collected soccer supplies for elementary and middle school children: cleats, shin pads, shorts, shirts, and new mouth guards and socks.

On week three, the volunteers collected non-perishable food items for the GBFB.

On week four, Rosie's Place and Pine Street Inn received toiletries, new socks, and reading glasses.

Rosie's Place, Boston

On Tuesday, April 2, both pre- and post-doctoral students volunteered to serve food at Rosie's Place, a sanctuary for homeless, displaced, and battered women, located in the South End.

Post-doctoral students in the Dental Public Health program served lunch. They were: Osama Felemban MScD 12, DScD 13; Tarek Elmajie CAGS 14, MScD 14; Solafa Ayoub DScD 15; and Zaina Kalthoum DScD 15; along with Instructor Thayer Scott. Five pre-doctoral students who are members of the BU student chapter of American Association of Women Dentists volunteered to serve dinner. They included: Shelby Curtis DMD 16, Sirisha Kovvali DMD 14, Mary McClintock DMD 16, Nora Nakshabendi DMD 16, and Amanda Yip DMD 16.

The Food Project, Lincoln, Massachusetts

Volunteers convened at the Food Project in Lincoln on the morning of Saturday, April 6, to get the fields ready for the season. Since 1991, the Food Project has built a national model of engaging young people in personal and social change through sustainable agriculture. Each year, more than 150 teenagers and thousands of volunteers farm 40 acres in eastern Massachusetts in the towns and cities of Beverly, Boston, Lincoln, and Lynn. Food from the farms is distributed through their community-supported agriculture programs and farmers' markets and donated to local hunger relief organizations.

The volunteers spread mulch between the blackberry bushes, weeded the raspberry bushes, and exposed 2,500 garlic plants by removing the straw that had covered them for the winter.

The goal was to make a difference for those who lack healthy, affordable food in the Greater Boston area.

Kathleen Held and Sharon Boyle at the Greater Boston Food Bank



Volunteering: Clinical Instructor Cindy Cadoret, Kathy Lituri, Zara Nensey DMD 14, Jay Patel DMD 14, Khamir Patel DMD 14, Associate Professor and Director of the Advanced Specialty Education Program in Dental Health Woosung Sohn and his wife Mia Kim, and Jaspreet Wurring DMD 14 and her boyfriend, Jesse Singh.

The Greater Boston Food Bank

On the morning of Tuesday, April 9, GSDM staff and faculty met at the GBFB. GBFB is the largest hunger relief organization in New England and among the largest food banks in the US. Last year, GBFB distributed almost 41 million pounds of food, enough to provide healthy meals to as many as 545,000 people. The organization is committed to increasing its food distribution in 2013 to provide at least one meal per day to every person in need in eastern Massachusetts.

Volunteers received a customized educational and team-building experience. They sorted, packed, and inspected food and groceries for people in need.

Volunteers included: Coordinator, School-based Programs Flor Amaya; Lina Benslimane; Administrative Manager Sharon Boyle; Jobina Cabrea; Wanda Cox; Dee Devlin; Research Project Assistant Krystal Garcia; Dental Health Educator Krissie Gibbs; Assistant Professor Kathy Held; Professor Elizabeth Kaye; Research Project Assistant Ramona Lara; Director of Alumni Relations & Annual Giving Stacey McNamee; Hector Mendoza; Program Administrator Sheree Norquist; Martin Pantages; Andrew Soule-Hinds DMD 15; and Swathi Uppu DMD 14.

Relay for Life, Boston University

BU Relay for Life took place at the Track and Tennis Center on the Charles River Campus beginning at 6 p.m. on Saturday, April 13, and running until 6 a.m. Sunday. This was GSDM's fifth year participating in the 12-hour, overnight event, where participants walk the track to honor cancer survivors, remember people who died of cancer, and raise money for the

American Cancer Society. Three GSDM teams raised more than \$1,700.

The team members were: Yasmin Alayyoubi CAS 10, DMD 14; Dalal Alhaji CAS 10, DMD 14; Ingy Alhelawe DMD 15; Chris Atchinson; Nicholas Baldelli DMD 13; Danielle Berkowitz DMD 13; Christopher Bickford DMD 13; Andy Brito DMD 13; Kathleen Burnside DMD 14; Assistant Dean of Students Joseph Calabrese with wife Michelle and sons Joe and Tommy; Clinical Instructor Gladys Carrasco; Sean Cater; Shelby Curtis DMD 16; Nadia Daljeet DMD 13; Michelle DaRocha; Dee Devlin; Michael Donovan DMD 13; Rebecca Dorfman; Danielle Fernandez DMD 14; Kelsey George DMD 16; Johnny Gonzalez DMD 15; Dean Jeffrey W. Hutter and wife Kathy; Homan Javaheri DMD 14; Usman Javed DMD 13; Delphine Jeong; Roli Malla Joshi; Rabinder Kaur AS 13; Clinical Instructor Ana Keohane; Professor Tom Kilgore; Francis Kniskey; Andrea Lam DMD 16; Emma Lattouf; Lana Le; Luri Lee CAS 12, DMD 16; Stephanie Leung DMD 15; Michelle Li DMD 14; Linda Linsinbigler DMD 15; Kathy Lituri; Jenny Lorenzo DMD 13; Rachel Lukas DMD 13; Antonio Maceda-Johnson DMD 15; Matt Mara DMD 16; Keely Matheson DMD 15; Kelley McLaughlin DMD 14; Richa Mehta DMD 14; Jessica Metcalfe DMD 15; Champaka Nagaraju DMD 14; Michael Navy DMD 16; Maidelys Oliva DMD 14; Fransheska Ovalles DMD 13; Khamir Patel AS 14; Thomas Pepe DMD 16; Caitlin Reddy DMD 13; Daniella Rizzo DMD 16; Ramandeep Samra DMD 15; Amrita Sandhu DMD 15; Fernando San Juan DMD 14; Clinical Assistant Professor Frank Schiano; Neelam Shah DMD 14; Muhammad Ali Shazib DMD 14; Hajra Sheikh AS 14; Sara Sheikh AS 14; Jackie St. Pierre DMD 14; Wyatt Traina DMD 14; Clinical Assistant Professor Tina Valades; Karina Vergara DMD 14; and Joey Yu.

Cradles to Crayons, Brighton

Members of the School's Hispanic Student Dental Association (HSDA) led two volunteer sessions at Cradles to Crayons in Brighton on Wednesday, April 17. Voted 2012 best local charity by Boston A-list, the organization provides children from birth through age 12 living in homeless or low-income situations with the essential items they need to thrive, free of charge.

Volunteers included: Gladys Carrasco, Cindy Cadoret, Krissie Gibbs, Grace Hannawi SAR 13, Wendy Heinstejn, Professor and Associate Dean for Global and Population Health Michelle Henshaw, Marian Ibarra DMD 13, Asween Marco SPH 12, Rachel Meshell, Tam Nguyen DMD 13, Fransheska Ovalles DMD 13, John Paul DMD 14, Chelsea Randall DMD 13, Kenia Rodriguez DMD 14, and Karina Vergara DMD 14. Several people from GSDM volunteered on their own in April.

COMMUNITY

They were: Debora Heller PERIO 16 at the First Parish Church, Ana Keohane at Strong Women Strong Girls in Boston, and Clinical & Educational Operations Coordinator Carina Pina with Belle of the Ball.

International Externships Participants Highlight Rewards of Improving Global Health

Global & Population Health hosted a motivational “Lunch & Learn” on May 2, 2013, to ignite the interest of DMD and AS students to participate in international elective externships. Many students who had already participated in the program’s missions were present to share their often profound experiences providing oral health care to people who lack adequate access to it. Externship locations this academic year included remote areas in Mexico, Honduras, Guatemala, Colombia, Nicaragua, and Panama.

A slide show of pictures from the externships—telling many more than a thousand words—included images of students using unusual travel modes, like donkeys and small aircrafts; exotic locations with unfamiliar vegetation and food; harsh clinic conditions; smiling students; many of the smiling patients; and also examples of the poor oral health conditions in patients. Though, most of all, the photos displayed camaraderie, teamwork, compassion, and fortitude. The audience was palpably enthused by the presentation.

Following the slideshow, international externship participants shared their experiences with the mostly third-year DMD and second-year AS students in attendance.

The following students presented their externship experiences to the lunch attendees: Sahar Abtahi DMD 12, AEGD 13 (Honduras) and Erik Harriman DMD 14 (Colombia) along with DMD 13s Danielle Berkowitz (Guatemala), Colin Brady (Mexico), Erik Engelbrekton (Mexico), John Greiner (Mexico), Michele Holzinger (Guatemala), Andrew Jorgensen (Mexico), Melissa Knudsen (Panama), Kathy Ko (Nicaragua), Parsia Koleini (Mexico), Anna Lechowicz (Honduras), Rachel Lukas (Panama), Nadia Malik (Honduras), Patrick Moore (Mexico), Fransheska Ovalles (Guatemala), Christian Peralta (Guatemala), Elizabeth Ponder (Guatemala), Caitlin Reddy (Guatemala), Jennifer Rubin (Guatemala), Justin Van Dusen (Nicaragua), and Europa Yang (Mexico).

The remaining students who participated in externship missions this academic year, all DMD 13s, were Jung Ahn (Honduras Global Brigades), Andy Brito (Mexico), Lauren Chinnici (Guatemala), Nadia Daljeet (Guatemala), Christina Donnelly (Guatemala), Michael Donovan (Mexico), Ilya Garibyan (Honduras), Yunji Lee (Honduras), Hilary Linton

(Guatemala), Jenny Lorenzo (Mexico), Robert Lynn, Nazia Malik, Paul Nardi, Anna Pukhovitskaya (Honduras), Joshua Quinby (Mexico), Lindy Su (Honduras), Giuseppina Verde (Mexico), Michelle Vo (Honduras), and Christina Woo (Honduras).

Though the students described days involving sacrifice—challenging working conditions, long hours, and being faced with difficult treatment choices—the most common description of the trips was “rewarding.”

Dean Hutter personally awarded certificates to the international externship participants “for making outstanding contributions that improved the overall health of the global community.”

RESEARCH

The scope of research at GSDM is broad, spanning areas of basic, clinical, public health and translational sciences.

Currently, research at GSDM encompasses five major themes: 1) basic metabolic processes and signaling pathways in development and disease, including inflammatory disorders and cancer; 2) genetics, cell biology and biochemistry of parasites and of oral and gastrointestinal microbes in health and disease; 3) maxillofacial trauma and oral tissue regeneration; 4) public health issues related to periodontal disease progression and health care delivery to underserved populations; 5) biomaterials sciences; and 6) periodontology and oral biology.

Research programs are strategically integrated within the Boston University Medical Campus (BUMC) which, in addition to GSDM, comprises the School of Medicine, the School of Public Health and Boston Medical Center, the clinical and hospital affiliate. In addition, GSDM participates in collaborative research with a number of research-intensive Schools and Colleges on the University’s Charles River Campus, as well as with the Department of Veterans Affairs (VA). Due to its ability to share the resources of the BUMC, the Charles River campus and the VA, GSDM is uniquely positioned to enhance multidisciplinary, interdisciplinary and translational research initiatives.

Seed Funding

Research worked with the Office of the Dean to secure funds from the research endowment for seed grants. Research organized an internal competition for one year seed grants of up to \$15,000 each. The grants were intended primarily to support new investigators, but could also be used to fund new and exciting collaborations by established researchers.

Competition was open to all GSDM faculty and post-doctoral fellows/residents.

Nine applications were submitted and each was reviewed for scientific merit and potential importance as a new collaboration by a sub-group of the Research Committee. The sub-group recommended three proposals for funding and this recommendation was approved by the Research Committee. The projects funded were:

- Ki-Young Kim, Molecular and Cell Biology: “Control of ribosomal protein gene expression by transcriptional attenuation”
- Manish Bais, Periodontology & Oral Biology: “LOXL2 in anabolic response to osteoarthritis”
- Srinivas Ayilavarapu, General Dentistry: “Periodontal disease and Type 2 Diabetes Have Excessive Systemic Inflammation and Impaired Resolution Programs”

Oral Cancer Research Initiative

The Oral Cancer Research Initiative (OCRI) was established in the fall of 2011. The OCRI is a focused multidisciplinary collaborative that brings together basic scientists, clinicians, public health researchers, engineers, chemists and computational biologists to work on diverse issues related to oral cancer. The mission of the OCRI is to elucidate the mechanisms of oral cancer development and progression and to expedite translation of research findings toward diagnosis, prevention, treatment and cure of oral cancer. Since oral cancer disproportionately affects underserved minorities and since it is on the rise in developing countries, the OCRI addresses a growing societal need in the arena of national and worldwide health care.

The development of the OCRI accelerated this year with the identification of research projects and teams. Seed funding was awarded to assist participants in developing their research and in generating preliminary data for submission of intramural and extramural grant applications. As is evident from the table below, this seed funding has nurtured collaborations and has begun to result in joint proposals and publications.

Outputs of OCRI Researchers receiving Seed Funding

Proposals	11
Publications	12
Publications	1
(under review)	
Publications	4
(in preparation)	
Presentations	6

To support and guide its development, the OCRI hosted two important meetings this year. The External Advisory Board meeting took place on November 21/22, 2012. Several members of the OCRI External Advisory Board participated in an intensive series of meetings over the course of two days. Participants came from the American Cancer Society, the University of Pittsburgh, Emory University and the University of Michigan. The board provided helpful advice and support that will guide the future direction of the initiative. The Internal Advisory Board meeting was held on May 31, 2013. Several different schools and both BU campuses were represented by the Board members. The core OCRI research team presented updates on their research projects and the board provided valuable feedback and guidance.

The OCRI expanded its membership beyond Boston University this year with the establishment of a collaboration with the Dana Farber Cancer Institute. The collaboration is led by Dr. Robert I. Haddad, Disease Center Leader, Head and Neck Oncology Program and Associate Professor of Medicine, Harvard Medical School and Dr. Peter Hammerman, Instructor in Medicine, Harvard Medical School. Research meetings have alternated between Boston University and Dana Farber locations and plans are to align basic and clinical studies with clinical trials at Dana Farber.

To further support the development of OCRI programs and based on the success of its organizational structure, the OCRI has been invited by the Evans Center for Interdisciplinary Biomedical Research to form a pre-ARC. Pre-ARCs serve as an intermediate phase of exploration of research themes before becoming a formal ARC (Affinity Research Collaborative). It is expected that the OCRI will apply for full ARC status in November 2013, at which point seed funding will be available to support collaborations and further project development.

Center for Clinical Research

The Mission of the GSDM Center for Clinical Research (CCR) is to promote collaboration between basic and clinical scientists to translate research findings from the bench to chair-side; foster critical thinking and lifelong learning.

In January of 2012, the GSDM CCR opened under the leadership of Dr. Judith Jones. Over the past 18 months, the Center has developed new Standard Operating Procedures and a Checklist for Investigators. Dr. Jones worked with new investigators to develop new projects, apply for grant funding, apply for IRB approvals, recruit study subjects and conduct their research, and record their findings. Over the past 18

RESEARCH



Members of the Center for Clinical Research: Director, Dr. Judith Jones, and Coordinator, Carol Nicholson



Selected Research Highlights

Salomon Amar
 Professor, Department of Periodontology & Oral Biology
 Director, Center for Anti-inflammatory Therapeutics

Research led by Dr. Salomon Amar primarily focuses on the molecular control of inflammation. Three research projects address this important defense mechanism particularly when dysregulated inflammation leads to various diseases among them cardiovascular disease or obesity.

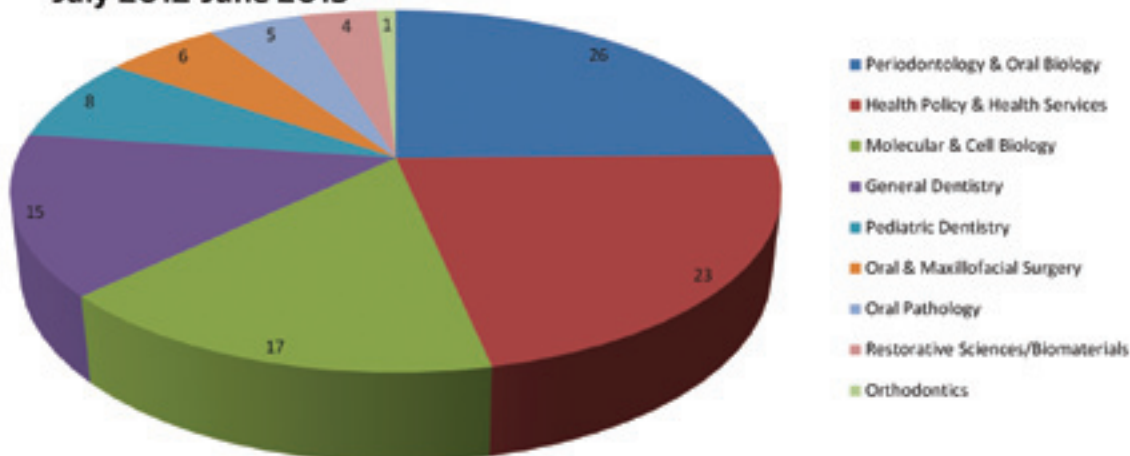
months, growth in the Center has been modest, adding two new protocols per year; however growth in the use of the center has been geometric. Between 2010 and 2012 old protocols enrolled 150 total participants (~50/year). Since reopening in January 2012 increases in participant enrollment has risen geometrically, to 91 participants in 2012 and 91 so far in 2013.

Faculty Publications

The research programs of the faculty span a broad spectrum of biomedical topics that have led to numerous, high-visibility publications in prestigious peer reviewed journals such as *The Journal of Biological Chemistry*, *The Journal of Cell Science*, *The Journal of Immunology*, *PLos One*, *Cell Cycle*, *FEBS*, *Eukaryotic Cell*, *The Journal of Dental Research*, *The Journal of Public Health Dentistry*, *The Journal of Dentistry*, *The American Journal of Public Health*, *The Journal of the American Dental Association*, *The Journal of Periodontology*, *The Journal of Craniofacial Surgery*, *The Journal of Oral and Maxillofacial Surgery*, *The Journal of Clinical Pediatric Dentistry*, and *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology* among others.

Cardiovascular: Dr. Amar’s Center recently found that Nucleotide-binding Oligomerization Domain-containing protein 2 (NOD2) a member of the inflammasome acts as a gate-keeper in the prevention of dysregulated inflammation in two chronic inflammatory diseases: Atherosclerosis and Periodontal Disease. The study describing the work and entitled “Pivotal Role of NOD2 in Inflammatory Processes Affecting Atherosclerosis and Periodontal Bone Loss” just appeared in PNAS December 2013. Apolipoprotein (Apo) E-/- mice deficient in Nucleotide-binding Oligomerization Domain-containing protein 2 (NOD2) and subjected to an oral gavage of *Porphyromonas gingivalis* developed elevated serum inflammatory cytokines, cholesterol, alveolar bone loss and atherosclerosis. Stimulation of NOD2 by Muramyl DiPeptide (MDP) in ApoE-/- mice reduced P. gingivalis-induced inflammatory cytokines, cholesterol, alveolar bone loss and atherosclerosis. The study was the first one to show that a reduction in body weight gain was observed in ApoE-/- mice fed a high-fat diet (HFD) and injected with MDP compared to ApoE-/- mice fed a HFD but saline injected. We concluded that MDP activation of NOD2 should be considered in the treatment of inflammatory processes affecting atherosclerosis, bone loss and possibly weight gain.

**Faculty Publications (105)
 July 2012-June 2013**



RESEARCH

Obesity: The Center has also linked obesity with immune dysfunction. It is known that physical exercise with dietary control has beneficial effects on immune function and the comorbidities of obesity. However, the mechanisms underlying the improvement of immune function in obesity after physical exercise with dietary control remain unknown. The Center reported that moderate daily exercise with dietary control restores the impaired cytokine responses in diet-induced obese (DIO) mice and improves the resolution of *Porphyromonas gingivalis*-induced periodontitis. This restoration of immune responses is related to the reduction of circulating free fatty acids in the diet. Moderate daily exercise with dietary control restores these immune defects. Thus, metabolizing FFAs by moderate daily exercise with dietary control improves innate immune responses to infection in DIO mice. Recent data indicate that 2 important bacterial response genes thrombospondin 1 and arginase 1 are altered in macrophages from obese mice and modulating these genes can revert immune defects in obesity. The present data pave the way for therapeutic interventional studies aimed at reducing immune defects in obesity.

Dr. Serge Dibart
 Professor and Chair, Department of Periodontology & Oral Biology
 Director of the Advanced Specialty Education Program in Periodontics

The “Piezolimplant” proposal submitted by Dr. Serge Dibart, Dr. Robert Gyurko and Dr. Alexis Sauer-Budge from the BU-Fraunhofer Alliance has been partially funded by a Wallace H. Coulter Translational Research Partnership award. The remaining funding for the project will come from Acteon-Satelec, Inc., a company that has previously sponsored Dr. Dibart’s research on the piezotome. The Piezolimplant system is based on the notion that the implant

should match the shape of the available bone, thus eliminating the need for bone augmentation. For patients with long-lost teeth and narrow alveolar ridge, the cylindrical implant shape does not match the shape of the available bone. Dr. Dibart, Dr. Gyurko and Dr. Sauer-Budge, therefore, are developing and clinically testing the Piezolimplant, a non-cylindrical dental implant system and a series of Piezotome tips to cut the non-cylindrical implant bed. The Piezolimplant system will significantly decrease treatment time and cost compared to an implant treatment where additional bone augmentation has to be performed.

Dr. Raul Garcia
 Professor and Chair, Department of Health Policy & Health Services Research
 Director, Northeast Center for Research to Evaluate and Eliminate Dental Disparities

Dr. Elizabeth Kaye
 Professor, Department of Health Policy & Health Services Research

Dr. Raul Garcia has led the Department of Veterans Affairs Dental Longitudinal Study for the past 20 years. The study was established in 1968 and is the longest running observational epidemiologic study of oral health and aging in the US. Dr. Elizabeth Kaye is the Principal Investigator of several NIH grants that support analyses of those data.

Dr. Kaye is leading research on understanding the role of nutritional factors in periodontal disease progression and the effect of obesity on risk of periodontal disease. One of the unique features of this work is that the decades of detailed data available on the research subjects permits the investigators to do well-controlled multivariate analyses with well-defined temporal relationships. One example is work published in 2012 showing that high-fiber foods reduce

periodontal disease progression in older men (Schwartz N, Kaye EK, Nunn ME, Spiro A, Garcia RI. High-fiber foods reduce periodontal disease progression in men aged 65 and older: the veterans affairs normative aging study/dental longitudinal study. *J Am Geriatr Soc.* 2012 Apr; 60(4):676-83). The analyses used 625 men followed over two decades. Another recent example of the larger research agenda on nutrition, obesity and periodontal disease, is a publication in 2012 on obesity and risk of periodontal disease progression (Gorman A, Kaye EK, Apovian C, Fung TT, Nunn M, Garcia RI. Overweight and obesity predict time to periodontal disease progression in men. *J Clin Periodontol.* 2011 Dec 12). Those analyses made use of over 1,000 men followed for three decades.

Dr. Russell Giordano II
 Associate Professor, Department of Restorative Sciences/Biomaterials
 Associate Professor in Materials Science & Engineering, College of Engineering

Dr. Giordano runs a long-standing research project involving the fabrication of interpenetrating phase materials for dental applications. This research is designed to create a material in between the world of traditional ceramics and traditional composite resins using an interconnected ceramic matrix. This material is used in chairside and laboratory CAD/CAM systems. The traditional approach to making dental composites results in materials with microstructures consisting of discrete dispersed phases embedded in a homogeneous matrix. A different approach in material processing involves fabricating multiphase composite materials in which each phase is continuous and interpenetrating throughout the microstructure.

The materials produced in this project provide dentists and laboratories with new products for treatment of decayed and missing teeth. These products

decrease the amount of time a patient will spend at the dentist and produce a restoration that better matches the patient's teeth and lasts longer. This material also machines faster and thinner with minimal machining damage as compared to conventional ceramics.

Patents were granted on this material and are held by Boston University. The intellectual property was licensed by a German dental company, Vita Zahnfabrik. The initial material produced is based on a feldspathic porcelain matrix with a polymer second phase. The material based on this research was launched for sale in the U.S. in February 2013 and in Germany in January 2013, with the trade name of Enamic. Research continues on this class of materials in order to fabricate higher strength materials with different ceramic matrix/polymer combinations as well as graded structures.

Dr. Eva Helmerhorst
Associate Professor, Department of Periodontology & Oral Biology

Research by Helmerhorst and coworkers is focusing on the role of the microbiome of the upper gastro-intestinal tract and the oral cavity in the digestion of dietary gluten. Dietary gluten comprises a family of proteins that are abundantly present in the Western diet. Gluten proteins are fairly difficult to digest because of their unusual amino acid content and sequence.

Dr. Eva Helmerhorst



In genetically predisposed individuals, gluten proteins elicit an auto-immune response leading to the destruction of the villi of the small intestine, thus, interfering with efficient uptake of nutrients causing celiac disease. The predominant amino acids in the gluten sequences are proline (Pro) and glutamine (Gln). Recent investigations indicate that human saliva contains unique enzymes that

can cleave the peptide bond C-terminal to the Xaa-Pro-Gln sequence. This tri-peptide is prevalent in T-cell stimulatory gluten domains. While the human digestive enzyme system apparently lacks the capacity to neutralize essential immunogenic gluten domains implicated in

celiac disease, such activities are naturally present in the oral microbial proteasome. These novel findings offer clinical insights as well as therapeutic perspectives for the treatment of celiac disease.

Dr. Judith Jones
Professor and Chair, Department of General Dentistry
Director, Center for Clinical Research

Dr. Jones is the principal investigator of a project titled "Fluoride Effectiveness in Prevention of Dental Caries in High Caries Risk Adults", funded by the Agency for Healthcare Research and Quality. While efficacy measures how an intervention works under ideal circumstances, effectiveness looks at how it works in the real world. This is especially important because most of the previous work on fluoride has been done in children and because aging baby boomers are keeping their teeth more than ever before.

Dr. Jones was also an author of a study titled "A retrospective review of emergency room visits for dental reasons in adults". On July 1, 2010, MassHealth (Medicaid) stopped its dental coverage for adults in Massachusetts. The purpose of this retrospective cohort study was to analyze the rate of people utilizing ERs for dental services before and after the MassHealth reform. The greatest increases in care were among racial and ethnic minorities, older adults and persons receiving Medicare, Medicaid and charity care. Based on the diagnoses associated with their care, ER users for dental care would be better served (at a lower cost) in primary care settings rather than the ER.

Dr. Maria Kukuruzinska
Professor, Department of Molecular & Cell Biology
Associate Dean for Research

Dr. Kukuruzinska investigates the interactions among the metabolic pathway of N-glycosylation, E-cadherin-mediated intercellular adhesion and several key signaling pathways, including canonical and non-canonical Wnt and Hippo in salivary gland development and oral cancer. To date, her work has made several seminal contributions toward understanding how the N-glycosylation/canonical Wnt/E-cadherin network maintains epithelial cell homeostasis and, when dysregulated, promotes oral squamous cell carcinoma. Head and Neck Cancer is the sixth most common cancer worldwide, affecting 600,000 new individuals every year. In the US, about 50,000 new cases will be diagnosed this year with an estimated death burden from this malignancy of 10,000. Despite these statistics, head and neck cancer remains one of the most understudied cancers with no

improvements in either detection or treatment over the past two decades and with mortality remaining at 50% at five years post-diagnosis. Oral cancer accounts for the majority of head and neck cancers. This malignancy preferentially affects underserved minority populations in the US and developing countries, emphasizing the great societal need for improved prevention, detection, treatment and cure of this disease. To expedite research on oral cancer, Dr. Kukuruzinska organized the Oral Cancer Research Initiative (OCRI) at Boston University. To augment its translational components aligned with patient care, the OCRI has recently partnered with other institutions in the Greater Boston area to develop a multidisciplinary Head and Neck Cancer initiative.

Dr. Kukuruzinska co-chaired the Gordon Research Conference on Salivary Glands & Exocrine Biology in Galveston, Texas, from February 3 to February 8, 2013, with Dr. Indu S. Ambudkar of the National Institutes of Dental and Craniofacial Research (NIDCR). A total of 136 senior and junior investigators attended to share their unpublished discoveries in salivary, lacrimal, pancreatic, mammary, and lung research. The conference was supported in part by GSDM. In 2009, Dr. Kukuruzinska co-founded an international collaboration, the Norwegian-United States Initiative on Sjogren's Syndrome (NUSISS), that brings together basic researchers and clinicians from GSDM, the University of Oslo, the State University of New York at Albany, and the University of Florida. The mission of this initiative is to expedite the deciphering of the molecular basis of Sjogren's Syndrome and to promote the development of new diagnostics and therapeutics. The NUSISS collaboration has expanded this year with the recruitment of new collaborators who will bring cutting edge technologies to the initiative.

Dr. David E. Levin
 Professor & Chair, Department of Molecular & Cell Biology

Dr. David E. Levin, professor and chair of the Department of Molecular & Cell Biology at Boston University Henry M. Goldman School of Dental Medicine, received a four-year National Institutes of Health (NIH) grant of \$1.25 million for Control of Transcriptional Attenuation of Stress-Induced Genes in Yeast. The grant runs from July 23, 2012 through April 30, 2016. Dr. Levin worked with Research Assistant Professor of Molecular & Cell Biology Dr. Ki-Young Kim on this research.

Dr. Levin describes transcriptional attenuation as a mechanism for maintaining stress-induced genes in a "primed" state, ready to be induced when needed. It works by allowing



Dr. David Levin

a low level of transcription to be initiated under non-stress conditions, which is then squelched by premature termination of transcription. Under stress conditions, premature termination is relieved to allow productive gene expression. Transcriptional attenuation may provide a new approach to therapeutic gene silencing.

Drs. Levin and Kim hope to identify a variety of novel attenuation-relief factors that act on specific genes in response to different stress conditions. They also hope to understand better the mechanism by which attenuation is controlled by these factors.

Dr. Frank Oppenheim
 Professor, Department of Periodontology & Oral Biology
 Henry M. Goldman Distinguished Scientist

Dr. Frank Oppenheim is a Professor and Henry M. Goldman Distinguished Scientist in the Department of Periodontology & Oral Biology. He has provided almost 40 years of outstanding service to the school, 23 of which were as Professor and Chair of the Department of Periodontology and Oral Biology. Under Dr. Oppenheim's leadership the department earned a national and international reputation both in clinical and research disciplines.

Dr. Oppenheim is an elected fellow of the American Association for the Advancement of Science. He has served as a member and chairman on several NIH Study Sections and continues to review grant applications of program projects and center grants. Dr. Oppenheim has also served on specialty panels and is a reviewer for key journals in his field. He has authored or co-authored over 150 scientific publications and has a continuous funding record from NIH since 1972. Under his leadership, a Division of Oral Biology was created at GSDM that has gained national and international recognition for its research and academic contributions.

Dr. Miklos Sahin-Toth
Professor, Department of Molecular & Cell Biology

Research led by Miklos Sahin-Toth focuses on the role and mechanisms of genetic risk factors in chronic pancreatitis. Most pancreatitis-associated gene mutations exert their effect via a so-called trypsin-dependent pathological pathway, which involves increased activation of trypsinogens resulting in elevated intra-pancreatic trypsin activity. Activation of trypsinogen to active trypsin is mitigated by trypsinogen degradation and active trypsin is inhibited by pancreatic secretory trypsin inhibitor (serine protease inhibitor Kazal type 1, SPINK1). Mutations in PRSS1 (serine protease 1, also known as human cationic trypsinogen) stimulate autoactivation of cationic trypsinogen. Loss-of-function mutations in SPINK1 reduce inhibitor expression and compromise trypsin inhibition. Loss-of function mutations in CTRC (chymotrypsin C) reduce secretion or activity of chymotrypsin C and thus impair protective trypsinogen degradation. More recently, the group identified that mutations in CPA1 encoding carboxypeptidase A1 are associated with early onset chronic pancreatitis and this effect may be mediated by mutation-induced protein misfolding, a novel pathway unrelated to trypsin activity (Nature Genetics 2013, 45, 1216-1220).

Dr. John Samuelson, Professor in the Department of Molecular & Cell Biology, was awarded a research grant of \$30,000 from the Mizutani Foundation for Glycoscience.

Dr. Samuelson is working with Dr. Phillips Robbins, Professor in the Department of Molecular & Cell Biology, and Post-doctoral Associate Guy Bushkin on the proposal, "Roles for β -1,3-glucan in Oocyst Walls of Toxoplasma and Eimeria." The diagnostic and infectious stages of Toxoplasma (cause of disseminated infections in fetuses and people with AIDS) and Eimeria (a \$100,000,000

problem for the poultry industry) have a two-layered wall. Dr. Samuelson, Dr. Robbins, and Bushkin recently published experiments in mBIO—the online journal for the American Society for Microbiology—showing the inner layer of the oocyst walls is a porous scaffold composed of fibrils of β -1,3-glucan. Similar fibers are a major component of fungal walls, and inhibitors of the glucan synthase are important anti-fungal drugs. These anti-fungal drugs also inhibit the formation of the oocyst walls of the parasites. Proteins in the Toxoplasma and Eimeria walls are similar to each other but are unlike those of fungi or mycobacteria.

The grant from the Mizutani Foundation for Glycoscience will fund experiments to examine how the two-layered oocyst wall, which contains β -1,3-glucan and acid-fast lipids, is assembled. The applied science question is whether recombinant oocyst wall proteins might be used as a vaccine against these parasites.

Dr. Philip Trackman
Professor and Director of Oral Biology Research, Department of Periodontology & Oral Biology

Research in Dr. Trackman's laboratory is focused on the regulation of extracellular matrix accumulation in mineralized and non-mineralized normal tissues, and in pathologies in which extracellular matrix accumulation is affected. Studies utilize cell culture, animal models, and human tissues and encompass a wide range of experimental approaches derived from the disciplines of biochemistry, enzymology, cell biology and quantitative biology. Goals of these studies are to obtain a greater understanding of the molecular and cellular basis for gingival overgrowth and other fibrotic diseases, and to understand mechanisms of osteopenia that occurs as a complication of type I diabetes. Recent important findings show that oral fibroblasts are resistant to the effects of certain inflammatory factors, and that this resistance contributes to the elevated expression of connective tissue growth factor (CCN2/CTGF). This growth factor, in turn, contributes to gingival overgrowth and oral fibrosis. In addition, the biological process of epithelial to mesenchymal transition has been identified as a contributor to gingival overgrowth. These understandings provide new avenues for therapeutic approaches to prevent and treat gingival overgrowth.

The mechanism by which lysyl oxidase acts as a tumor suppressor is under investigation. Dr. Trackman's laboratory has made the novel discovery that the tumor suppressor function of lysyl oxidase resides in the propeptide (LOX-PP) region of a proenzyme precursor. This propeptide is released from the proenzyme by extracellular proteolytic processing, and the released propeptide inhibits growth of tumor cells and tumor

Dr. Philip
Trackman



formation. A focus of the laboratory is to identify mechanisms by which the lysyl oxidase propeptide can suppress tumor formation or tumor growth and tumor metastasis. A major target of LOX-PP was found to be the fibroblast growth factor receptor-1 (FGFR1). Intracellular targets are now under investigation. A polymorphism in LOX-PP was found to have impaired ability to suppress tumors in mice, and is a risk factor for breast cancer in estrogen receptor-negative breast tumors in humans. rLOX-PP is effective as an inhibitor of tumor growth in xenograft models. Dr. Trackman's laboratory works on this project in collaboration with the laboratories of Dr. Gail Sonenshein (Tufts University School of Medicine) and Dr. Kathrin Kirsch of Boston University School of Medicine, Department of Biochemistry. The potential use of LOX-PP as a pharmacologic agent has been submitted and is pending in the U.S. patent office; and preclinical studies continue. Dr. Trackman's paper "Megakaryocyte polyploidy is inhibited by lysyl oxidase propeptide" was published in *Cell Cycle* in April 2013.

GSDM Researchers Recognized at IADR

Researchers at the Henry M. Goldman School of Dental Medicine (GSDM) enjoyed success at the 90th General Session and Exhibition of the International Association for Dental Research (IADR) in Iguacu Falls, Brazil, June 20-23, 2012.

Geriatric Fellow Dr. Laura Kaufman won first prize in the post-doctoral geriatric oral research category for her poster Centenarian Offspring: Oral Health Outcomes Reflect Systemic Health Status. The coauthors on the research project are Dental Assistant Tiffany Setiono, Director of the Geriatric Dentistry Fellowship Program Dr. Paula K. Friedman, Associate Professor Dr. Tom Perls of BU School of Medicine, and the New England Centenarian Study.

The study looked at the oral health of centenarians—those who live 100+ years—and their 70 to 80-year-old children. The subjects are participants in the New England Centenarian Study at BU School of Medicine.

Dr. Sok-Ja Janket was a runner-up in the same category for her poster, Dental Prostheses and Cardiovascular Survival: a 15-year Follow-Up Study. This was a longitudinal study supported by the American Heart Association. The coauthors are GSDM Chair of General Dentistry Dr. Judith Jones, Dr. Markku Surakka, Dr. Jukka H. Meurman, and GMS and incoming DMD student Andrea Lam.

The study showed that just having a lot of teeth did not bring about longer survival from cardiovascular disease. Rather, those who had 15 teeth, but took care of broken roots and

maintained clean, healthy mouths lived longer than those who averaged 22 teeth.

Assistant Professor Brenda Heaton presented the results of her research in a talk, Partial-Mouth Recordings: Evaluating Assumptions and Validity in Periodontitis Association Studies. Her research was funded by the School of Dentistry at the University of Birmingham, England after placing second in the Young Investigators international research competition at the 2011 IADR general session. She traveled to England last year to complete the work with her collaborators.

Her research found that misclassification of periodontal disease from PMR is not random and has limited bias. PMR protocols introduce negligible bias in studies of association, according to the results.

Debora Heller PERIO 16 gave an oral presentation and received the Wrigley Clinical Salivary Research Award for Dental Scientists. Read more about Dr. Heller's research in the May 21, 2012, Outlook This Week article.

New Students Introduced to the Possibilities of Research

The Boston University Henry M. Goldman School of Dental Medicine (GSDM) Student Research Group (SRG) held a Research Fair on Thursday, September 27, 2012, to encourage and support the incoming students to participate in research during their time at the School. Assistant Director of Pre-doctoral Research Afaf Hourani, SRG members, and all SRG officers were in attendance: President Europa Yang DMD 13, Vice-President Joshua Gilbert DMD 14, Secretary Ray English DMD 14, and Treasurer Insun Yoon DMD 13.

SRG members talked about their past research projects, many of which have won awards and taken students around the US to present their research and connect with fellow dental students and dental professionals. Prospective student researchers had the opportunity to ask questions and also to meet SRG members.

Research Project Takes Nathan Ng to San Francisco

Nathan Ng DMD 14 represented Boston University Henry M. Goldman School of Dental Medicine in the ADA/DENTSPLY Student Clinician Research Program at the 2012 ADA Annual Session in San Francisco on Saturday, October 20, 2012.

Ng presented Coffee Consumption and Periodontal Disease in Men in the category Clinical Science/Public Health Research. Ng received the ADA/DENTSPLY Award for this poster at

GSDM Science Day 2012. His mentors are Drs. Elizabeth Krall Kaye and Raul Garcia from the Department of Health Policy & Health Services Research.

Researchers examined 394 dentate, non-Hispanic white males in the VA Dental Longitudinal Study who attended three oral examinations between 1987 and 1998. The men recorded their average coffee intake and were divided based on if they drank less than or more than one cup of coffee per day.

Researchers found drinking more than one cup of coffee per day was associated with having fewer teeth with moderate-to-severe alveolar bone loss compared to those who drank less than or one cup per day. The same group also had fewer teeth with bleeding on probing.

Researchers concluded that caffeine may have anti-inflammatory effects and reduce periodontal bone loss in humans.

Doctoral Student Works Toward Treatment for Bone Loss

Someday, we may be able to regrow bone using a protein that is already inside each of us. Ahmad Almeahmadi PERIO 15 is studying the effect of VWC2 protein on calvarial (skull) bone formation under the guidance of Associate Professor Dr. Yoshiyuki Mochida.

His new research won him the Craniofacial Biology Award at the International Association for Dental Research General Session & Exhibition in Brazil in June 2012.

Almeahmadi previously showed that VWC2 protein is present in bone forming cells and has the ability to increase bone formation in mouse bone tissue. He won the Dean's Award for this research at Boston University's Science & Engineering Research Symposium in March 2012.

"N-glycosylation induces collagen triple helix repeat containing 1 and drives oral cancer cell migration" published in the May issue of the *Journal of Biological Chemistry*

Studies from Dr. Maria Kukuruzinska's laboratory have identified a novel role for protein N-glycosylation in driving oral cancer cell migration, likely to be involved in oral cancer progression and metastasis. Dean Jeffrey W. Hutter praised the efforts and discovery, "This work supports GSDM's effort to promote research in oral cancer and to increase its scholarly visibility through publications in high impact journals."

Recent studies from this group have demonstrated that protein N-glycosylation was coordinately regulated with canonical Wnt

signaling and E-cadherin adhesion via positive and negative feedback mechanisms. Moreover, these interactions were dysregulated in oral cancer due to aberrant and unchecked activation of the N-glycosylation/canonical Wnt signaling feedback loop and diminished E-cadherin adhesion. They now show that in oral cancer, inappropriately activated N-glycosylation and canonical Wnt signaling converge to upregulate collagen triple helix repeat containing 1 (CTHRC1), an N-glycoprotein implicated in tumor invasion and metastasis. The authors propose that targeting N-glycosylation/canonical Wnt/E-cadherin network may represent an effective strategy for therapeutic intervention for oral cancer. Moreover, since CTHRC1 influences tumor invasion and metastasis of many aggressive neoplasms, these findings may reveal relevant mechanisms for the pathogenesis of other cancers.

This work, by Gangli Liu, Pritam K. Sengupta, Basem Jamal, Hsiao-Ying Yang, Meghan P. Bouchie, Volkhard Lindner, Xaralabos Varelas, and Maria A. Kukuruzinska, "N-glycosylation induces collagen triple helix repeat containing 1 and drives oral cancer cell migration," is described in the *Journal of Biological Chemistry*, published online May 2013.

Dr. Na Tian Wins First on Russek Student Achievement Day

Boston University Henry M. Goldman School of Dental Medicine (GSDM) post-doctoral student Na Tian ORAL BIO & PERIO 14 recently won first place in the Russek Student Achievement Award for Oral Biology. Dr. Tian was honored at the 19th Annual Henry I. Russek Student Achievement Day on Friday, May 10, 2013 in the Hiebert Lounge. Sundharamani Venkitapathi ORAL BIO 14 also received an honorable mention in the same category. Russek Student Achievement Day honors Boston University post-doctoral students' research efforts with a poster session and oral presentations.

Dr. Eva Helmerhorst, Associate Professor in the Department of Periodontology & Oral Biology, supervised Dr. Tian's research. Dr. Tian presented her project, "Oral Rothia Bacteria Enzymes Show Novel Therapeutic Perspectives for Celiac Disease," on Russek Student Achievement Day.

In the study, they found that certain bacteria from the oral cavity harbor enzymes that degrade gliadin and gliadin-derived immunogenic peptides that are otherwise resistant to mammalian digestive enzymes. They also discovered that this degradation reduces the recognition of these peptides by human tissue transglutaminase. This is a strong indication of gluten epitope neutralization. The discovered microbial enzyme activities open promising new avenues in the search for novel therapies to neutralize the deleterious effects of gluten in celiac disease patients.

Our 50th Anniversary

Anniversary Celebrations Around the Globe

Alumni, faculty, students, and staff celebrated GSDM's 50th Anniversary throughout 2013 at receptions around the US and the world.



Past President, BU Alumni Council, and Alumni and Dean's Advisory Boards member Shadi Daher DMD 90, OMFS 94; BU Provost Jean Morrison; and Dean Jeffrey W. Hutter at the 50th Kickoff at Yankee Dental Congress on February 1



Director of Alumni Relations & Annual Giving Stacey McNamee and Dean's Advisory Board Member Bobby Virk ORTHO 06 at the ADEA reception in Seattle in March



Dean Hutter; Ariel Trujillo DMD 97, PERIO 00; and his wife Alissa at an alumni reception hosted by the Trujillos in Scottsdale in March



Dr. Shahin Etemadi (left) and Director, Advanced Specialty Education Program in Endodontics, Dr. Sami Chogle at the AAE reception in Honolulu in April.



Former Chair of Oral & Maxillofacial Surgery Dr. Donald Booth, Dean Hutter, and current Chair Dr. Pushkar Mehra at Booth Education Day in April



Dean Hutter with Drs. Ossama and Sana Al-Lahham at the AAO reception in Philadelphia in May



Director, Advanced Education in General Dentistry (AEGD) and Post-graduate Operative & Esthetic Dentistry Dr. John Cassis and Sheede Khalil DMD 12, AEGD 13 at the AEGD Alumni Reception in Boston in May



Alumni Board Member Josephine Pandolfo CAS 74, DMD 79, PERIO 82; Alumni Board Secretary Frank Schiano CAS 01, DMD 06, AEGD 07; and Director of Alumni Relations & Annual Giving Stacey McNamee at the International Symposium on Periodontics & Restorative Dentistry (Quintessence) in Boston in June



Former Chair of Pediatric Dentistry Dr. Christopher Hughes; Willie Chao PEDO 08 with his wife and children; and Dean Hutter at the AAPD reception in May



Gabriel Blumenkranz; Louis Garcia; Alumni Board and Dean's Advisory Board member Shadi Daher DMD 90, OMFS 94; Deans Advisory Board member Ernesto Muller PERIO 61; and Enrique Muller DMD 07, PERIO 12 at Quintessence in Boston in June



Alumni reception in Bangkok: (clockwise from top left) Dr. Laisheng Chou addressing guests, GSDM alumni who attended the reception, Sonthi Sirimai PROS 97 and Dean Hutter

FINANCIAL STATEMENT
7/1/2012 - 6/30/2013

Revenue

Operating Funds

Tuition & Fees	\$51,001,856	62.7%
Pre- & Postdoctoral Clinics	7,253,805	8.9%
Dental Health Centers	8,401,135	10.3%
F&A Cost Recoveries	2,922,764	3.6%
Other	460,381	0.6%

Total Revenue - Operating Funds **70,039,940** 86.1%

Restricted Funds

Designated/Discretionary	9,691,762	11.9%
Endowments Interest	1,009,623	1.2%
Gifts	619,376	0.8%

Total Revenue - Restricted Funds **11,320,761** 13.9%

Total Revenue **81,360,701** 100.0%

Expense

Operating Funds

Instruction & Research	25,481,579	33.5%
Shared Campus Costs	9,727,736	12.8%
Dental Health Centers & Plan	7,576,589	10.0%
Clinical Instruction	8,124,053	10.7%
Administrative Services	6,855,503	9.0%
Scholarship	2,489,129	3.3%
Academic Services	2,379,269	3.1%
Capital Improvements	814,970	1.1%
Other	718,841	0.9%

Total Expense - Operating Funds **64,167,668** 84.3%

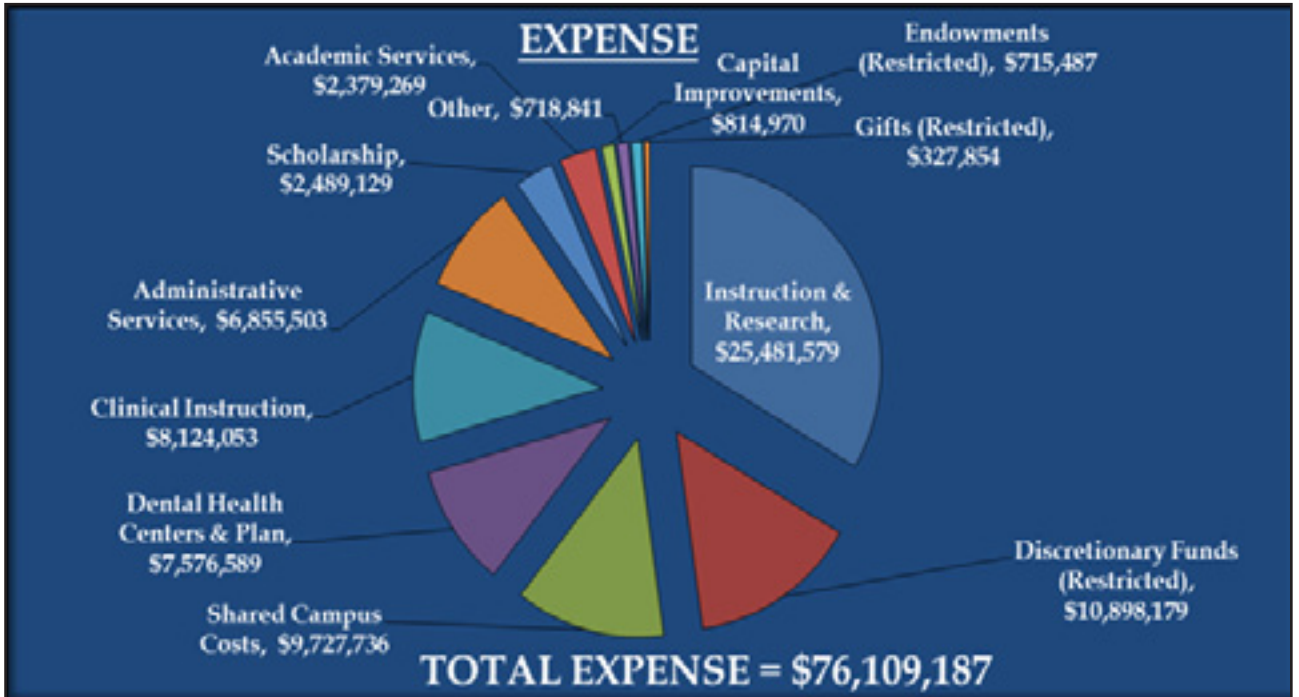
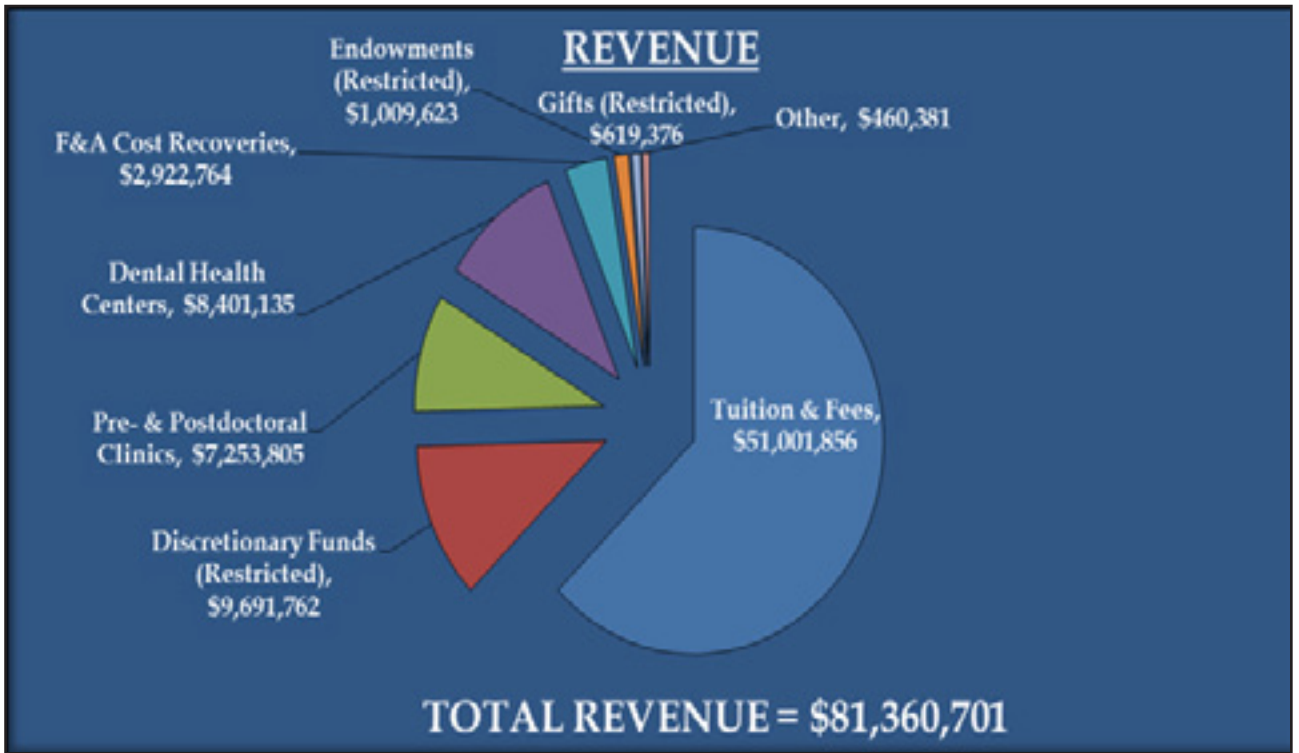
Restricted Funds

Discretionary/Designated	10,898,179	14.3%
Endowments	715,487	0.9%
Gifts	327,854	0.4%

Total Expense - Restricted Funds **11,941,520** 15.7%

Total Expense **76,109,187** 100.0%

Net Profit (Surplus) **\$5,251,514**



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