

Tufts

DENTAL MEDICINE

OUT IN THE WORLD

Loan assistance program clears
a path for careers of service



PLUS: STEM CELL BREAKTHROUGH • LEADING THE ADA • HARDLY RETIRING

Having a Ball

Jennifer Chon, D12, takes aim during a dodgeball tournament students organized to benefit classmate Catherine Dahl, who is fighting breast cancer. Game organizer Katherine Dubois, D12, says she got the idea for the fundraiser after she spent the night before an exam watching the movie *Dodgeball*, a comedy about two rival gym owners competing in a championship tourney. The class has supported Dahl since her diagnosis in 2008, cooking meals and sponsoring other fundraisers. "One of my classmates even wrote letters to family and friends explaining my situation and raised a substantial sum," says Dahl, who has been able to afford amenities to make her life easier, such as a cleaning service and meal deliveries.

contents

FALL 2009 VOLUME 13 NO. 2

features

10 Playing Against Type

A conversation with Kathleen O'Loughlin, D81, the new executive director and chief operating officer of the American Dental Association. *by Julie Flaherty*

COVER STORY

12 Out in the World

With an assist from Tufts, these alums are caring for patients who need them the most. *by Jacqueline Mitchell*

18 Footloose

Adrina DeVitre is most likely the only member of the Class of D12 who can perform a grand jeté as easily as a cavity prep. *by Julie Flaherty*

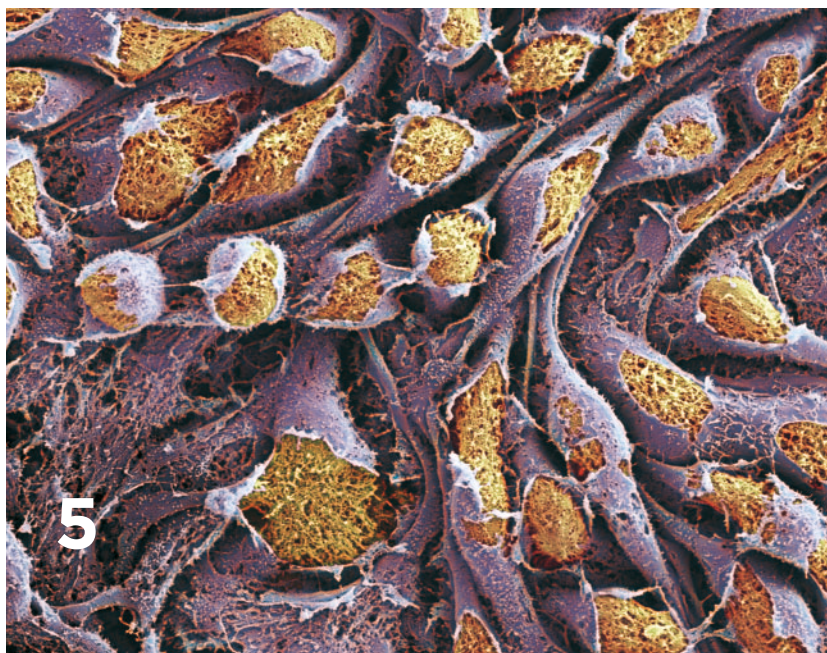
21 Hardly Retiring

Among the items on Robert Chapman's life-after-Tufts to-do list are consulting for dental schools overseas, exploring electronic patient records as a research tool and continuing in private practice. *by Julie Flaherty*

On the cover: Christina Dahlke, D05, is the only dentist in a small town in Wisconsin on the southern shore of Lake Superior. Photo by David Nevala



18



5

departments

2 LETTERS

3 FROM THE DEAN

5 WORD OF MOUTH

A SCAN OF PEOPLE, PLACES & EVENTS

8 LAB NOTES

A REPORT ON LEADING-EDGE SCIENCE

24 ON CAMPUS

DENTAL SCHOOL NEWS

41 UNIVERSITY NEWS

THE WIDER WORLD OF TUFTS

42 BEYOND BOUNDARIES

PROVIDING THE MEANS FOR EXCELLENCE

45 ALUMNI NEWS

@ŽRT ODQAŽSD@BGDQ

The article on Dr. Spencer Glidden ("The People's Pathologist," Winter 2009) was an excellent one. He was a superb teacher, one of our best. He made a difficult subject very interesting and always had stories to illustrate his points.

Two of us in of the class of D52, served in the Navy under Dr. Glidden during World War II. He was the chief medical officer for the First Naval District, located at 150 Causeway Street in Boston. Dr. Donald Blackstone and myself were pharmacist mates and X-ray technicians stationed at the Boston Navy Yard. We received many X-ray requests from Dr. Glidden.

Only later, when talking to him as students at the dental school, did we discover that he was our boss in the service.

ARNO BOMMER, D52
PEABODY, MASSACHUSETTS

KHED, BG@MFHMF ŽDWDQHDMBD

We just wanted to let you know that graduation weekend was an awesome experience, and in our view, Tufts School of Dental Medicine is a first-class act in every regard.

We so much enjoyed attending the Omicron Kappa Upsilon national dental honor society induction and dinner on Friday night of this special weekend. This was a dignified and meaningful event. On Sunday we headed for the graduation ceremonies on the Medford/Somerville campus. The speeches were excellent, and the atmosphere in the arena was one that exuded excitement and a true respect for academic and clinical accomplishments.

From the first day our son Joseph was accepted to Tufts (the same week he graduated from Dartmouth College) and received a Merit Scholarship award, he felt he was a valued member of the Class of 2009. He has been inspired by many outstanding doctors and support personnel at Tufts; he has mentioned Dean [Lonnie] Norris and Dean [Mark] Gonthier many times, always with gratitude and appreciation of their efforts. Joseph has also mentioned the highly respected members of the clinical faculty. It takes very special people to uphold the high standards at Tufts, and we are in awe of the four years that our son spent at the School of Dental Medicine.

He not only thrived, but the experience changed his life. He made some lifelong friends, and he had the privilege of working with some of the best, brightest, most skilled and caring faculty and postgraduate residents in the field of dentistry. We would like to say thank you for setting the bar high and for upholding the standards of this extraordinary dental school.

RICHARD AND
ROBIN PECHTER, D09P
VERO BEACH, FLORIDA

For more on Commencement weekend, turn to page 31. — Editor

UDQXŽH OQDRRDC

I recently started my General Practice Residency at Maimonides Medical Center in Brooklyn. There are six residents in total, all of whom went to different dental schools. The residency program director said he had never had such a range of dental schools represented as was the case this year. The program director was reviewing materials we will use in our residency. He began by asking what each of us used in our dental schools. With each response, he became more impressed with one school—you guessed it, Tufts.

He was impressed with our undergraduates' use of rotary instrumentation for endo and with our clinical materials, even something as simple as having several choices for impression materials. There has yet to be a material or instrument I did not learn to use at Tufts. As my residency continues, I have come to realize how truly great my education at Tufts was. I can honestly say that my education left nothing out.

JOEL PREMINGER, D09
LAWRENCE, NEW YORK

S@KJ ŽSNŽTR

Tufts Dental Medicine welcomes letters, concerns and suggestions from all its readers. Address your correspondence, which may be edited for space, to Karen Bailey, Editor, Tufts Dental Medicine, Tufts University Office of Publications, 80 George St., Medford, MA 02155. You can also fax us at 617.627.3549 or email karen.bailey@tufts.edu.

Tufts

C DMS@KŽL DC HB HMD

VOLUME 13, NO. 2 FALL 2009

Executive Editor Lonnie H. Norris
Dean, School of Dental Medicine

Editor Karen Bailey

Alumni Editor Vangel R. Zissi,
D62, DG67

Design Director Margot Grisar

Designer Betsy Hayes

Contributing Writers

Deborah Blagg, Julie Flaherty,
Jacqueline Mitchell

Contributing Editor Leslie Macmillan

Editorial Advisors

Maria Tringale, Senior Director
Dental Development and Alumni Relations

Mark Gonthier, Associate Dean

Admissions and Student Affairs

Mary-Ellen Marks, Faculty Secretary

Dental Alumni Association

President Tofigh Raayai, DG77, DI82

Vice President Mostafa El-Sherif, DI95

Secretary Lisa Vouras, D89

Assistant Secretary/Treasurer Peter A.
Delli Colli, A69, D73

Treasurer Janis B. Moriarty, D94

Directors

Cherie Bishop, D94; Joseph P. Giordano,
D79, DG84; Catherine Hayes, D87; John
J. Millette, D91; Raina A. Trilokekar, DG88,
DI91; Derek Wolkowicz, D97, DG00

Ex-Officio

Past Presidents: John P. Ficarelli, D73,
D10P, Nicholas T. Papapetros II, D91;
Lisa Vouras, D89

Dental M Club Chair John P. Ficarelli, D73,
D10P

Historian Charles B. Millstein, D62, A10P

University Liaison Thomas F. Winkler III, A62,
D66, D10P

Chapter Presidents

Steven Dugoni, D79, A08P, A12P, California

EJ Bartolazo, D92, New York

William N. Pantazes, D90, DG08, Florida

John A. Vrotsos, DG82, Greece

Tufts Dental Medicine is published twice annually by Tufts University School of Dental Medicine, the Tufts University Dental Alumni Association and the Tufts University Office of Publications. The magazine is a publication member of the American Association of Dental Editors.

Send correspondence to:

Editor, *Tufts Dental Medicine*

Tufts University Office of Publications

80 George St., Medford, MA 02155



Tufts Prints Green

Printed on 25% post-consumer waste recycled paper. Please recycle.

Some Good News in a Slow Economy



I am pleased to share with you some highlights from the 2008–09 academic year at the School of Dental Medicine. Even in a down economy, and with the need to adjust to the inconveniences of ongoing major construction at our building at One Kneeland Street, the school had an outstanding year, achieving its primary missions of educating competent oral health

professionals, providing high-quality patient care, advancing research and promoting community service.

In alignment with university measures to address the current economic climate, the school remains financially solid, with a balanced budget. Our clinic revenues remained stable; we curtailed discretionary expenses such as travel; and adhering to university policy, we limited merit raises. Most important, we were steadfast in funding our academic priorities, including the completion of the construction project to add five floors to our building. The main pillars of the school’s budget—tuition and fees, and clinic and educational activities—are strong.

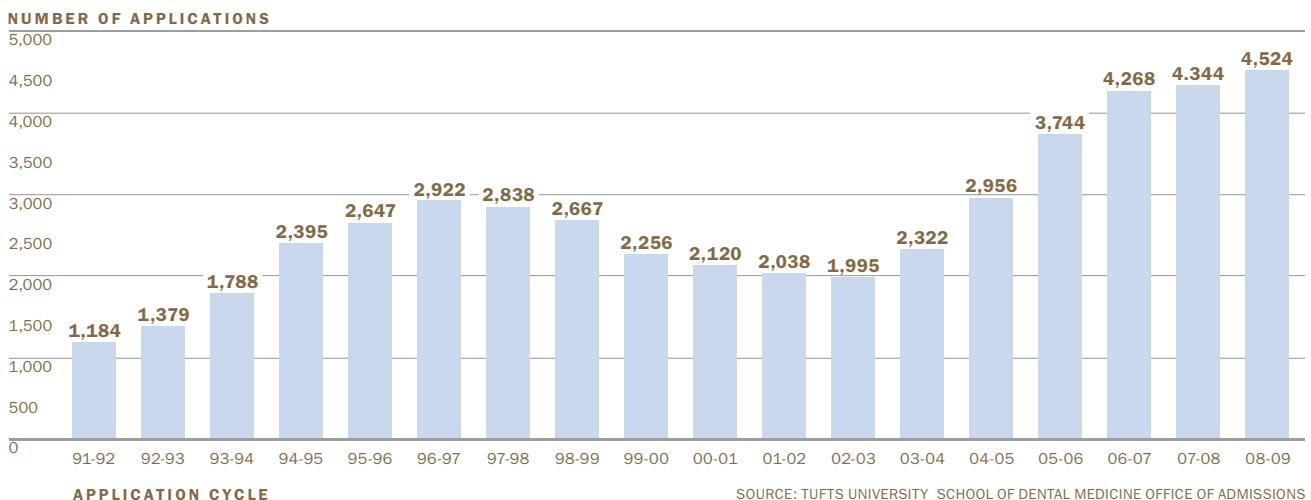
We remain a highly sought-after institution for a dental education. Applications for admission are at an all-time high. Our selectivity ranking,

which is a measure of our competitiveness, is 8 percent (the lower the number, the more selective), and our yield rate (the percentage of students accepted who actually enroll) is 52 percent.

Tufts University School of Dental Medicine continues to be a national leader in the number of applications received for its D.M.D. program. For our newest class (D13), the school received 4,524 applications for 173 slots—a 4.1 percent increase over last year. Of significance is the fact that we’re continuing to elevate our academic standards and still attracting high-caliber students.

The applicant pools for the school’s six postgraduate and three fellowship programs also are growing. Four of the postgraduate programs, now located on the second floor of One Kneeland Street, will move to new space that is more than double in size once our expansion project is complete. As of January 2010, Endodontics and

APPLICATIONS TO TUFTS’ D.M.D. PROGRAM, 1991–2009



Orthodontics will be on the new eleventh floor, and Periodontics and Prosthodontics and Operative Dentistry will occupy the twelfth floor.

Led by the Department of Public Health and Community Service, the school has been active in Boston's Step Up program, which is administered by the city in coordination with Tufts University and four other universities. The program provides comprehensive services, including dental prevention and treatment, to students in select Boston public schools. In addition to services provided by the School of Dental Medicine, the Friedman School of Nutrition Science and Policy at Tufts is spearheading initiatives in healthy eating and physical activity. The Step Up dental team works five days a week in urban neighborhoods throughout the school year and has cared for more than 5,000 children in 30 Boston schools since Tufts started participating in Step Up in 2007.

Step Up is one way our school is helping to address the access-to-care issue, which is projected to reach its worst point in New England and around the country by 2020, as more dentists retire than enter the profession.

The need is especially acute in Maine, which has just one dentist for every 3,400 residents, compared to the national ratio of one dentist per 1,700 residents. The Maine Dental Association predicts that about 20 percent of the state's dentists will retire over the next five years. Clearly, that is not welcome news for patients, as they contend with practices that aren't accepting new patients or months-long waits for an appointment.

To address the growing shortage of dentists in New Hampshire, Vermont and Maine, our school has been working more with community health centers in those states to establish externship sites for student rotations.

One of Tufts University's core values is active citizenship. Realizing that student indebtedness can influence career decisions, including where our dental graduates practice, the university last year established the Tufts Loan Repayment Assistance Program (LRAP) to help alumni pursuing careers in public service to pay a portion of their education loans. I was extremely pleased at the

number of awards granted to our students. You'll meet four of them in this issue of the magazine (see page 12).

The economic downturn also affected research funding this year. Federally funded scientists saw cuts ranging from 7 percent to 20 percent in their current project budgets.

However, the availability of federal stimulus monies through the American Recovery and Reinvestment Act of 2009 generated a high number of grant applications from our faculty. Pamela Yelick received a two-year, \$1.53 million grant from the National Institutes of Health (NIH) for her research using zebrafish as a model for growing replacement teeth. The school is evaluating space needs and costs for bringing in an NIH-funded researcher to work in Dr. Yelick's lab. Also, Driss Zoukhri recently received notification of \$1 million in funding over two years from the National Eye Institute. As this issue went to press, the school anxiously awaited decisions on additional proposals for stimulus funding.

As a result of mentoring by our research faculty, our students' interest in a broad range of clinical and basic science research is at an all-time high. In addition to conducting research here at Tufts, our students are being accepted to nationally competitive research programs. Samantha Jordan, A06, D10, was the only dental student chosen to participate in the 2008 Howard Hughes Medical Institute-National Institutes of Health (HHMI-NIH) Research Scholars Program, which each year brings 42 top health science students from across the country to the NIH campus in Bethesda, Md., to pursue biomedical research. This year, our dental school became the first in the country to have students accepted to the Research Scholars Program for two consecutive years. Urvi Ruparelia, D11, is working at the NIH now (see story, page 7).

Our alumni and friends remain generous supporters of our school. Over the last decade, donations to the annual fund have grown continuously. However, this year, although the Tufts Dental Fund once again exceeded the \$1 million mark, it did not meet its ambitious goal for 12 percent growth. The decline can be attributed to a number of factors, including the economic

downturn and the lack of a 25th reunion class this year (there was no Class of 1984 in the D.M.D. program because the school was transitioning from a three-year to a four-year curriculum).

Even though the stagnant economic climate affected all of us, it is gratifying that you made the school a priority for your philanthropic support. One of the highlights of the year was the second naming gift for our expansion project, from Louis Fiore, D62, and his wife, Jean. In 2007, they named the Dean's Suite, which will be on the new fifteenth floor. Now Dr. Fiore has once again demonstrated his generosity with a \$1 million gift to name the new continuing education amphitheater in honor of his mother, Rachel (see story, page 42). His gifts to our expansion project total \$1.26 million.

Our new, state-of-the-art building is on target for a grand opening ceremony on November 20. Remarkable progress has been made (see story, page 24). Last year at this time, crews were just placing the structural steel beams. Now the five-floor addition is completely enclosed, and final work is under way on the plumbing, walls, floorings and countertops. Equipment for the new clinic spaces and furniture will arrive early this semester. This newest jewel of our community will provide the critically needed space to advance our mission of providing an exceptional education and top-quality patient care.

Our expansion project was well-timed, since other dental schools are building facilities or adding onto existing ones, and some brand-new dental schools are being planned. With the new building, Tufts University School of Dental Medicine is uniquely positioned to remain competitive with its peers and to continue to attract first-rate faculty, students and staff.

These are extremely exciting times at Tufts Dental. Now, more than ever, we are relying on your participation and continued support. On behalf of our students, staff and faculty, I extend our sincere appreciation for your commitment to our school.

Lonnie H. Norris

LONNIE H. NORRIS, D.M.D., M.P.H.



Members of the African Children's Choir

Group Appointment

Ugandan children's choir stops in for a checkup
by **Jacqueline Mitchell**

ON MOST DAYS, A VISITOR TO TUFTS' PEDIATRIC DENTAL CLINIC HEARS a merry din coming from the waiting room and sees little pairs of sneakers wriggling at the end of every dental chair. But on two mornings in April, those shoes didn't belong to young New Englanders, but to children who traveled untold miles to get to Boston. A children's choir from the African nation of Uganda had been touring the Northeast when one of them, Josh, broke a tooth in a swimming pool and needed to see a dentist.

"Bring them all. Maybe we can fit them all in," Laura Camacho-Castro, DG83, an associate professor and director of the postdoctoral program in pediatric dentistry, told the choir's tour leader.

The pediatric dental team cleared its schedule to screen and treat more than a dozen children, most of whom had severe dental problems. "Tufts really opened up their arms to us," says Sharye Cornmesser, the tour leader. "We're a nonprofit, and they were willing to see us for no charge. It's just wonderful."

Part of the African Children's Choir, the group had performed at a church in Wells, Maine, and was headed to sing in Canada when Cornmesser asked about dentists. A member of the congregation called Tufts. The choir, founded by human rights activist Ray Barnett, shelters and educates

orphaned and vulnerable children from impoverished and war-torn African nations, including Kenya, Rwanda, Sudan, Nigeria and Uganda. Since 1984, groups of these children have been harmonizing their way across the United States, Canada and the United Kingdom, serving as poignant ambassadors for their home countries. They've even performed with Paul McCartney and Mariah Carey.

In Uganda, a landlocked nation in east Africa, a third of the people live below the poverty line, and rebel groups routinely kidnap children and turn them into soldiers.

Some of the kids seen by the Tufts dentists had medical complications; all had rampant caries.

"It's part of the mission of this department and of this school to recognize the importance of helping those in need. We know that making a difference in the health of these kids comes back to us," says Ginger Burns, the pediatric hygienist.

"Good teaching means you sometimes take a loss," says Stanley A. Alexander, D75A, chair of pediatric dentistry, who notes that the clinic waives its fees for

Continued on page 6



Ready to sing again

Continued from page 5
groups like this about twice a year.

“We wish we had the resources to do it for everyone. If we could get children in here early enough, we could make dentistry obsolete,” says Alexander, comparing himself to a smallpox researcher who would be glad to put himself out of business.

The Tufts students who train in the clinic are as grateful for the experience as the children they treat.

“These kids who visited our department and entertained us with their talented voices and dancing were a great window for us residents to see how so much can be achieved if the right amount of time and guidance is invested in children,” says Mohammed M. Ahmed, a postgraduate resident who treated Josh, the boy with the broken tooth. “Our experiences with these children, along with other children who we treated in the past, just prove to us how simple treatments can touch their lives heavily.”

Out in the waiting room, Ahmed, DG09, gives Cornmesser detailed instructions about follow-up care for Josh. “No hot food, no hard or crunchy food until he heals,” he says as he hands Josh a bag of dental swag. The boy, his mouth packed with gauze, rifles through his goodie bag: a new toothbrush, toothpaste, floss and the bright plastic sunglasses the pediatric clinic uses as eye shields.

Cornmesser wraps her arms around the boy. “I’m just really happy to get my kids taken care of,” she says.

TO LEARN MORE ABOUT THE AFRICAN CHILDREN’S CHOIR, GO TO [HTTP://AFRICANCHILDRENSCHOIR.COM](http://AFRICANCHILDRENSCHOIR.COM).

Caring for the Chernobyl Children

Thirty-two children who continue to suffer health problems as a result of the worst nuclear disaster in world history received care at the dental school in July.

The pediatric dentistry department provided oral-health services through Chernobyl Children Project USA, a nonprofit that provides medical treatment and respite care for children from Belarus, Russia and Ukraine. Even though the children had not been born when the Chernobyl nuclear power plant exploded in Ukraine in April 1986, elevated levels of radiation are still detectable. The children are experiencing the aftereffects: cancer; orthopedic, heart and eye conditions; kidney disease; a failure to grow.

Each summer some of the Chernobyl children are brought to Tufts Medical Center and Tufts’ pediatric dentists for care. Over two days on July 16 and 17, all 32 children received a comprehensive exam, and most of them spent a good half-day in treatment. Russian physicians who travel with the children assist with language translation.

Mario Lucca, D02, chief resident in oral surgery, and Richard Sorbera, DG65, a clinical professor, removed a large benign tumor from the upper jaw of a 10-year-old boy.

Fifteen Boston-area hospitals donate more than \$450,000 in medical services to the children every year. Since Chernobyl Children Project USA was established in 1995, more than 1,500 children have received free medical and dental care.

OVERHEARD

“I have always considered myself truly fortunate to be able to spend time and work with the special needs individuals, their families and caregivers. They appreciate the care they receive, and they have always been an inspiration for me.”

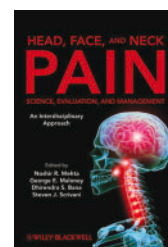
—JOEL PEARLMAN, D74

DIRECTOR OF THE TUFTS DENTAL FACILITY SERVING PERSONS WITH SPECIAL NEEDS IN WRENTHAM, IN A FOXBORO REPORTER STORY ON HIS BEING NAMED A MASSACHUSETTS ORAL HEALTH HERO

ON THE SHELF

HEAD, FACE AND NECK PAIN SCIENCE, EVALUATION AND MANAGEMENT: AN INTERDISCIPLINARY APPROACH (Wiley-Blackwell, 2009)

Edited by Noshir R. Mehta, DG73, D177, George E. Maloney, Dharendra S. Bana and Steven J. Scrivani



The book draws on international experts who offer the latest research and treatment information for a range of professional and academic audiences, including physicians, dentists, medical and dental students, neuroscientists and others interested in pain management.

Mehta directs the Craniofacial Pain Center at Tufts School of Dental Medicine, and Maloney and Scrivani are faculty in general dentistry. Bana, a faculty member at Tufts School of Medicine, is a physician with the John R. Graham Headache Center at Faulker Hospital.



Urvi Ruparelia, D11

A Year at the NIH

The Boston-to-Bethesda route is getting to be well-traveled around here by Julie Flaherty

LAST SUMMER, URVI RUPARELIA, D11, volunteered to help with a research project at the Tufts Craniofacial Pain Center. She pored through more than 700 patient charts, pulling out data for a study of the relationship between smoking and tempomandibular pain. It was a great experience that left Ruparelia wanting to do more research. But as any dental student can tell you, between clinic, classes and exams, extra time for side projects is hard to come by.

So imagine her delight when she found

out that she will be conducting her very own research project, mentored by world-renowned scientists at the National Institutes of Health and using lab facilities on the NIH campus in Bethesda, Md. And she has a whole year to do it.

As one of only two dental students chosen by the Howard Hughes Medical Institute to take part in the HHMI/NIH Research Scholars Program this year, Ruparelia is taking a year off from Tufts to learn how to be an investigator.

“It’s meant for students who have had a

little bit of research training, but nothing extremely formal,” she says of the program, which funds research by 42 top medical, dental and veterinary students chosen from around the country. When she arrived on the NIH campus in late August, she didn’t need to know exactly what her project would be. “I just have to have an interest and drive to do it,” she says.

Most of her research experience came as an undergraduate at Georgia Tech, where she studied biomedical engineering. She spent much of her senior year on a cell and tissue engineering project that looked at the bone-grafting process.

The daughter of a physician, Ruparelia decided to study biomedical engineering so she could eventually help cure or prevent illnesses at their source.

“I wanted to find solutions that would help or treat more than one person,” she says.

She first thought about dental medicine when she took a course on biomedical engineering in dentistry in which local dentists gave presentations on prosthetics, implants and the like. Ruparelia, who had herself gotten an implant when she cracked a tooth down to the root her freshman year (and has had her fair share of other dental procedures), says she was “completely intrigued.”

Another dental student, Samantha Jordan, A06, D10, recently returned to Tufts from her year as an HHMI/NIH Research Scholar (see story, page 26). Ruparelia will have the chance to visit the various labs at NIH and meet with several scientists before choosing her project, which may end up having nothing to do with dentistry. Inspired by the medical courses that are the foundation of the dental school curriculum (“Tufts is really good about teaching you to not just look at the mouth,” she says), she may want to do something involving autoimmune disorders or genetics.

Ruparelia admits she is a little nervous about leaving Tufts, if only temporarily. “I’ve become so attached to my classmates in the last two years,” she says.

But the timing is good. “When I come back, I’ll get my own patients and be able to fully go into the clinic.” Plus, it’s always good to have some friends who have lived through third year and can show you the ropes.



“We know the world is not flat. Neither is biology.”

—JONATHAN GARLICK

cells: ectodermal cells, which comprise the top, protective layer of skin and oral tissues, and mesenchymal cells, the second, supportive layer in the skin and mouth.

When the scientists seeded the two cell types onto the same three-dimensional scaffold made of collagen, the most abundant protein in skin and the mouth, the cells organized themselves into naturalistic, multilayered tissues within two weeks. Led by first author Kyle J. Hewitt, a graduate student in cell, molecular and developmental biology at the Sackler School, who works in Garlick’s lab, the researchers reported their findings in April in the online edition of the journal *Tissue Engineering (A)*.

Previously, stem cell investigators were limited to studying single-layer tissues grown as two-dimensional cells in Petri dishes. “We know the world is not flat,” says Garlick. “Neither is biology. By using pluripotent stem cells to make 3-D tissues that mimic their human counterparts, we are a step closer to a practical therapy for a variety of oral diseases.”

The lab’s success in growing multilayered tissues also advances the researchers’ ultimate goal: to learn how to transplant lab-grown replacement products to repair damaged and diseased tissues in human patients.

The Garlick lab is also building on recent breakthroughs at Kyoto University in Japan and the University of Wisconsin, where researchers were able to make adult skin cells revert to pluripotency with the insertion of four genes. Since these reverted adult cells, known as induced pluripotent stem cells, share many of the features of embryonic stem cells, their use may allow scientists to circumvent the ongoing ethical debate about the use of human hESCs. The discovery of pluripotent stem cells “shatters the longstanding dogma in biology that the specialized state of adult cells is irreversible,” says Garlick.

Collaborating with Konrad Hochedlinger at Massachusetts General Hospital and Gustavo Mostoslavsky at Boston Medical Center, Garlick’s team is comparing tissues derived from induced pluripotent stem cells to those derived from embryonic stem cells. If the tissues are biologically comparable, induced pluripotent stem cell research could pave the way for patient-specific, personalized medicine. For example, an individual’s own skin cells could be used to generate a customized tissue sample to test the safety and efficacy of pharmaceuticals or even cosmetics.

“It’s an exciting time in the field. I am surprised every day that we can do this,” says Garlick. “The implications for the future of human health are dramatic.”

BREAKTHROUGH

Long a hot-button issue, human stem cells at last may fulfill their promise as an invaluable tool for biomedical research by Jacqueline Mitchell

WHEN THE NATIONAL INSTITUTES OF HEALTH released new guidelines in July that removed barriers to the responsible use of human embryonic stem cells in research, there was a frisson among American scientists who work with these promising cells. Count Jonathan Garlick, head of the dental school’s Division of Cancer Biology and Tissue Engineering, and his research team among them. Earlier this year Garlick’s lab was the first to grow multilayered tissues from human embryonic stem cells. These novel tissues closely mimic the top two layers of skin or oral tissues, and provide an invaluable model to study all kinds of oral diseases and potential drug therapies for them.

Human embryonic stem cells, or hESCs, are powerful biomedical research tools because of what scientists call their pluripotency—their ability to give rise to all of the human body’s cell and tissue types. Garlick’s team used an NIH-sanctioned line of embryonic stem cells (the cells okayed for federal research funding by the Bush administration in 2001) to grow two separate populations of

THIN-BONED FISH COULD SOLVE OSTEOPENIA RIDDLE

IN THE ICY WATERS OF THE ANTARCTIC, ICEFISH HAVE TAKEN THEIR OWN Darwinian journey, developing novel biological solutions to their changing environment. The Tufts developmental biologist Pamela C. Yelick and her colleagues at three other universities are optimistic that the genetic machinations of the icefish could shed light on what causes osteopenia—a precursor to the brittle-bone disease osteoporosis in humans—and ultimately how to arrest it.

Millions of years ago, the Antarctic Ocean was not the unforgiving, frigid ecosystem we know today, but a temperate habitat that was home to many species of fish. Back then, icefish species lived on the sea floor, an environment to which they had adapted so completely that they lost their swim bladder, an organ that regulates buoyancy in most other kinds of fish.

But about 34 million years ago, a combination of atmospheric and geologic conditions caused the Antarctic water temperature to drop about 41 degrees Fahrenheit, to below zero, over just a few million years—a blink of an eye in evolutionary terms. When other fish species died out or migrated to warmer waters, the bottom-dwelling icefish were poised to exploit the newly vacated ocean feeding grounds. Lacking swim bladders, the icefish embarked on an evolutionary solution to their buoyancy problem.

Over the course of about four million years, the spiny, prehistoric-looking icefish shed bone density—so much so that you can make out the shape of their organs through their fragile skeletons. The genetic adaptation allowed the former bottom-dwellers to swim and feed higher up in the ocean's water column. At the same time, different icefish species—like Darwin's finches—developed specialized jaw and facial morphology to exploit the new kinds of prey available to them.

Yelick, G89, a professor of oral and maxillofacial pathology at the dental school, and her collaborators—H. William Detrich, a biochemist at Northeastern University; R. Craig Albertson, a biologist at Syracuse University; and University of Oregon neuroscientist John

Postlethwait—are investigating the demineralization of the icefish skeleton as a model for osteopenia. (Albertson worked in Yelick's lab at the Forsyth Institute in Boston before she came to Tufts in 2006.) Funded by a \$2.48 million, five-year grant from the National Institutes of Health, the researchers hope to identify the genes that control bone density in the icefish. They suspect the same genes also regulate bone density in humans.

“The evolution of this decreased bone density is analogous to the development of osteopenia over a human lifetime,” says Yelick, who directs the School of Dental Medicine's Division of Craniofacial and Molecular Genetics. “You can use these slow evolutionary changes to study changes that might occur in a human lifetime,” she told the journal *Nature*.

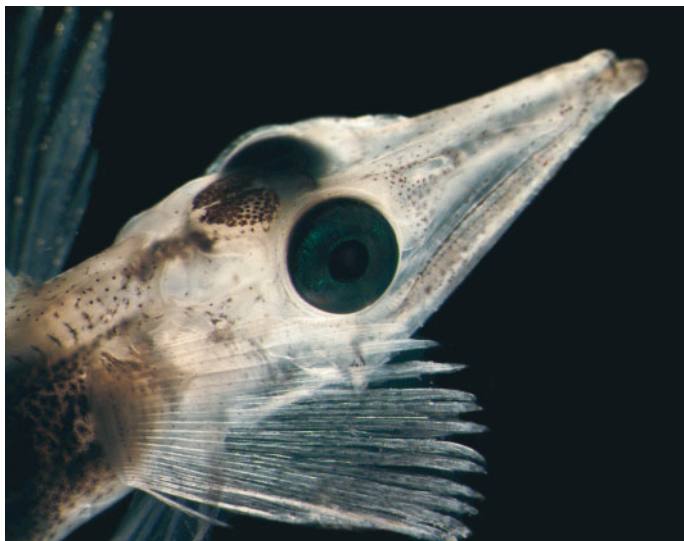
Studying icefish should reveal more about the genetic and molecular aspects of osteopenia in humans than the traditional scientific methodology of examining so-called “knock-out mice,” which are genetically manipulated to develop thinning bones. Osteopenia affects an estimated 34 million women and 12 million men in the United States, and the disease often leads to the more-crippling osteoporosis.

The four researchers, who met by chance at a conference on zebrafish two years ago, are looking at craniofacial development in the embryos of two species of icefish—the blackfin icefish and the Antarctic silverfish.


So far Yelick's team has found that icefish develop thinner, lighter skeletons, mainly through a trick of genetic timing. Compared to their relatives—the freshwater three-spined Stickleback, and to the more distantly related zebrafish—icefish have reduced expression of the genes that trigger bone growth and prolonged expression of the genes that build cartilage.

“If we can learn to manipulate these [genetic] pathways, we could identify novel targets for drugs for eventual use in humans,” says Yelick.

—JACQUELINE MITCHELL



Understanding the genetic machinations of the prehistoric-looking icefish could lead to a treatment for osteopenia in humans.



Kathleen O'Loughlin, D81, a Tufts trustee, is the first woman to serve as executive director and COO of the American Dental Association.

Playing Against Type

She's run her own practice and a big company, and now Kathleen O'Loughlin, D81, leads the world's largest dental association BY JULIE FLAHERTY

PHOTOGRAPH BY CARLOS JAVIER ORTIZ

KATHLEEN O'LOUGHLIN, D81, ISN'T AFRAID OF NEW CHALLENGES. IN 2002, AFTER spending 21 years caring for patients in her practice in Medford and later in Winchester, Mass., she changed course, saying goodbye to hands-on dentistry to become president and chief executive officer of Delta Dental Plan of Massachusetts. In her five years there, she helped the insurance company double its reserves and increase its membership by 400 percent.

Now she is executive director and chief operating officer of the American Dental Association, the world's oldest and largest national dental organization. With her background in private practice, teaching, research and health-care management, including a degree from the Harvard School of Public Health, she isn't your typical professional association administrator. But after only a short time on the job (she began June 1) she has already pronounced the experience "great."

Q: The ADA spent nearly a year looking for a new executive director, screening candidates from the public and private sectors, M.B.A.s and D.M.D.s. What do you think you had to offer that the others didn't?

I was pretty shocked when I was offered the job. I'm very much out of the mold of association executives. Because I bring a little bit of academia, a fair amount of private practice, a fair amount of senior management and a good deal of public health, I really bring an eclectic collection of experiences and skill sets. I think the board of directors cast a very wide net on purpose because they were looking for ways to refine their own thinking rather than going out and saying "we're looking for an association executive." I admire their courage. My core values may have been part of what the board was looking for: integrity, accountability, acceptance, optimism and a focus on truth.

It was really my husband who encouraged me to express my interest in the position. Just from the description that was in the *ADA News* he said, "This sounds like a good fit for you."

Q: What's on your to-do list?

I have two very clear objectives: support the public's health and promote the profession. [The ADA has] had interim executive director leadership in the last year and a half, and I would like to move quickly and give the staff confidence that things are progressing in the right direction. I'm here to support them in their work. I definitely see my role as working on behalf of the members and board of trustees. This isn't my show; this is their show.

Q: Are they an innovative group?

I would describe the ADA as kind of the Queen Mary: you change a vector today, and the outcome will be visible in a year or two. But there's a lot of innovative thinking, lots of various approaches, and especially passion for both the public good and the profession.

Q: With the economy as it is, what are dentists most concerned about right now? And what are patients most concerned about?

Dentists are definitely seeing postponement of preventative services, high-end services and even routine services. Dentists are reporting that they are booked out less far in advance than they were. At the same time they've seen an increased demand for services by people who are afraid of losing their jobs.

I think many dental Medicaid programs will be in jeopardy. Dental disease among vulnerable people—low-income kids, underemployed adults and frail elderly—the need is escalating faster than we can meet it. If you superimpose this economic crisis on top of that, it's going to make for a terrible situation. I worry that we will lose the gains we've made in the last several years in increasing policymakers' awareness of how important oral health is.

Q: Before you took this job, you spent some time consulting for Tufts Dental School, didn't you?

I did some work on how to manage the curriculum when they lost the use of the simulation clinic during the vertical expansion project. The solution was to get students into the clinic during their first year and have

them function as pseudo-assistants who are there to observe, to learn to be comfortable with patients, to watch treatment-planning decisions and get first-hand experience of what it's like to be in the dental practice.

Q: Was the plan your idea?

Consultants may like to take credit, but no. I listened and learned from what the faculty and students were telling me. The only way you can give anybody a good solution is to listen to them and understand what they need. I'm doing a lot of listening right now.

Q: You were the first female class president at Tufts Dental School, the school's first female valedictorian, and now you're the first woman to be executive director of the ADA. Do you attach any significance to that, or is it old hat by now?

Kind of old hat, but I also think I'm [part of] that transition generation of women who went from the home front to the executive suite. It isn't as hard for women now as it was 20 years ago. Finally, I think the world accepts female senior executives as women with a different style of leadership, not women dressed up like men and behaving in the workplace like men. I bring many traditional female qualities, such as empathy and nurturing, to my leadership style, in addition to effective decision making and disciplined execution. And I think that's great. I think women are accepted for their style, which is clearly different. It's not better or worse, just different.

Q: Are women well represented in the ADA leadership?

Right now, the majority are men. But to become a leader in any profession it takes you 20 years. There is a lag period where leaders emerge. When I was a dental student, women made up 12 percent of the class. Now 50 percent of dental school classes are women, and I think within 15 years we're going to see a huge change in the complexion of organized dentistry. You're going to see a lot more women moving up through the ranks. [The American Dental Association has] already had two women presidents, which is better than the United States. **TDM**



**“It’s my job to get them out of pain.
I don’t do it just for a paycheck.”**

—JIN CHANG, D04



OUT in the WORLD

With an assist from Tufts, these alums are able to care for inmates, veterans, Native Americans and rural folk

BY JACQUELINE MITCHELL

“SOMETIMES I FORGET I’M WORKING IN A PRISON,” SAYS Jin Chang. “It’s kind of like private practice, except my patients are dressed in orange.”

Chang, D04, has practiced dentistry in the California state prison system in Tracy, 60 miles east of San Francisco, since last year. His patients, of course, aren’t *exactly* like those a dentist would see in private practice. Some have complicated psychiatric profiles; others belong to gangs or have committed violent crimes. He sees more neglect, more hepatitis and more HIV than he might outside the penal system. More of his patients grew up mired in poverty or experienced periods of homelessness—not situations where oral health care is a priority.

But “we treat everybody the same; everybody deserves the same standard of care,” Chang insists, rephrasing that sentiment several times over the course of a conversation. “It’s my job to get them out of pain,” he adds. “I don’t do it just for a paycheck.”

But because he has about \$100,000 in student loans, Chang does need to keep an eye on his finances. That’s why he applied for, and received funds from, the Tufts Loan Repayment Assistance Program, or LRAP, which helps alumni working in public service careers pay their education debt.

Thought to be the first university-wide program of its kind, LRAP gives Tufts alumni the financial breathing room they need to pursue the relatively low-salaried jobs in the nonprofit and public sectors.

Given that a 2008 survey by the American Dental Education Association found more than 79 percent of dental school graduates have debts totaling more than \$100,000—as well as the School of Dental Medicine’s focus on serving the underserved—it’s no surprise that a large number of Tufts Dental alumni sought assistance from LRAP, which awarded its inaugural grants last December. Funded by the interest from the Omidyar-Tufts Microfinance Fund—established in 2005 with a gift from Pierre Omidyar, A88, and Pamela Omidyar, J89—and the Hargens Loan Repayment Assistance Fund, LRAP provided nearly \$500,000 to 300 alumni, including 25 Tufts dentists, during its first year.

“I really felt like my dental education could be used to provide dental care and promote overall good health for persons in underserved communities,” says Jong-Bum John Seo, D07, who works at the Navajo Reservation in Winslow, Ariz. “But the reality is that dentists in public health, on average, do not make as much as private-practice dentists,” says Seo, who notes he has “substantial” debt from dental school. “By participating in the LRAP program, I was able to worry a little less about the stresses of repaying loans.”

Seo, who grew up in Toronto, first worked with the Navajo population in the Winslow Dental Clinic during a five-week externship his senior year of dental school. It was a reality check. He was shocked by the need he saw, and by how few providers were around

“Tufts cares about underserved communities, not only in Massachusetts, but also on the Navajo Reservation through graduates like me.” —JONG-BUM JOHN SEO, D07



to meet that need. “Everyone from toddlers to the elderly needed so much dental education and care,” says Seo, who returned to the Navajo Indian Nation with his wife, Yvonne Lee, D07, as a resident after graduation. He has been a staff dentist there for a year.

Working in a geographically isolated area (Winslow is a town of 9,000 about halfway between Albuquerque and Las Vegas) means Seo performs all kinds of dentistry on all kinds of patients, from pediatric to geriatric and everyone in between. He’s had to quickly become a dental jack-of-all-trades, doing fixed and removable prosthodontics, endodontics, orthodontics, oral surgery and restorative dentistry. “You don’t get to pick and choose what you want to do,” he says. “If the doctors here don’t perform services, no one else will.”

The Winslow clinic and its two satellite offices in Leupp and Dilkon care for 18,000 patients every year.

His work with the Navajos of northern Arizona, Seo says, is very rewarding. He is proud that he has taught children to use a toothbrush for the first time. He recalls delivering dentures to an elderly patient and seeing him smile with his new toothy grin. “Tufts has equipped me with the tools to be able to influence people’s lives,” he says. “LRAP shows that Tufts cares about underserved communities, not only in Massachusetts, but also on the Navajo Reservation through graduates like me.”

MORE RURAL, MORE NEED

Roughly 25 million Americans lack access to adequate dental care as well as insurance to pay for it. In addition to racial and socioeconomic disparities that limit access to care, there are also geographic barriers. In 2001, the federal government estimated that 31 million Americans live in “dental shortage areas,” meaning there is less than one full-time dentist for every 5,000 people. Almost three-quarters of the 2,235 federally designated shortage areas are in rural parts of the country. Oregon, the Dakotas, Texas and most of the southeastern U.S. are experiencing the most acute need for dentists and other health-care professionals.

Americans who live in remote areas generally have poorer oral health, and overall health, than non-rural residents, according



“It feels like home up here in northern Wisconsin, and I can see myself here for a long time.”

—CHRISTINA DAHLKE, D05

to a report from the National Academy for State Health Policy, a nonprofit think tank in Washington, D.C. Rural residents visit a dentist less often, and therefore have higher rates of untreated decay. They are less likely to drink municipal water and so are less likely to have access to the decay-preventing benefits of fluoridated water. On top of that, a report of the National Rural Health Association found that just 14 percent of general dentists in the United States practice in rural communities.

Among that tiny cadre of general practitioners is Christina Dahlke, D05, who, because of Tufts' loan assistance program, has been able to pursue her passion for living and working in some of the most remote and underserved regions of the country, despite owing \$88,000 in education loans.

A National Health Services Corps scholarship paid for her last two years of dental school in exchange for her commitment to work in an area that does not have enough dentists. Dahlke spent more than three years at a community health center in Talkeetna, Alaska, a tiny rail town two and half hours north of Anchorage that fewer than 800 people call home. Despite its remoteness—or perhaps because of it—Dahlke found that overall oral health in Talkeetna wasn't as bad as one might expect, although Alaska as a whole “has some of the most complicated access issues and some of the worst oral-health disease in the nation,” she says. “Families eat pretty healthy out there because they have less access to convenience stores, fast-food restaurants and other junk food,” she says. Alaska's state insurance plan covers kids' dental care, she notes.

But it's a different story in Ashland, Wisconsin, where Dahlke has worked since last spring. Home to about 8,000 people on the southern shore of Lake Superior, Ashland once was a bustling shipping port, but the region has struggled with a stagnant economy since the second half of the 20th century. “In rural Wisconsin,” says Dahlke, “the dental IQ is so low. Kids have way more early childhood caries than kids in Alaska.”

In neighboring Bayfield County, a program to provide sealants and varnish to children in the public schools and Head Start programs exposed a deep need for more dental care in the region. “It seemed like

**Roughly
25
million Americans
lack access to
adequate dental
care and insurance
coverage
to pay for it.**

**Just
14%
of general dentists
in the United States
practice in rural
communities.**

every kid had unmet needs,” says Dahlke. In response, the Lakes Community Health Center opened in Ashland in March 2009. Dahlke is the dental director and the clinic's only dentist.

“When the clinic opened, we had an overwhelming response,” she says. “Most dentists don't take Badger Care (Wisconsin's state health insurance), so there is a lot of unmet need in patients of all ages,” says Dahlke, who estimates about 90 percent of her patients are covered only by Badger Care or Medicaid. The closest pediatric dentist who accepts Medicaid is three hours away, near Eau Claire.

At first, Dahlke tried to keep emergency slots for adult dental emergencies open in her daily schedule to alleviate some of the burden on the local hospital emergency room. Every day those slots were filled by children in pain. Dahlke also sees many adults at the clinic, especially medically compromised adults, with HIV or diabetes. “It's a tragic situation. We're working pretty hard,” she says.

Although working two more years at the Lakes Community Health Center will fulfill her commitment to the National Health Services Corps, Dahlke has no plans to leave the clinic or Ashland anytime soon. “It feels like home up here in northern Wisconsin, and I can see myself here for a long time—as long as I can get a co-worker,” she laughs.

PART DENTIST, PART COUNSELOR

Michelle Hamilton also credits LRAP with helping her find a permanent niche, living and working in an underserved community. You can hear the reverence in her voice as she talks about the men and women she treats at the Togus VA Medical Center in Augusta, Maine. When she mentions her youngest patient, an 18-year-old just back from Afghanistan, she uses the U.S. government's official title for the war, Operation Enduring Freedom. She calls the veterans of World War II, including her oldest patient, who is 103, “a special group.”

But Hamilton, D05, has a soft spot for the Vietnam veterans she treats, many of whom feel marginalized to this day after serving in a politically divisive, unpopular war. “I really like hearing their stories,” says Hamilton, who characterizes her job as “part dentistry, part counseling.”

To some degree, all dentists need to be attuned to their patients' anxiety. But for many of Hamilton's patients, fear and stress take center stage. “I think what happens is a lot of veterans come home with post-traumatic stress disorder (PTSD), and dental care becomes a low priority because they are dealing with so many other things,” she says. And when they do come to the VA clinic, Hamilton has to be aware of their existing or previous injuries; she needs to be careful not to trigger bad memories or anxiety. “I tend to have to really work closely with the veterans to manage their care, especially those who suffer from PTSD,” she says.

The Togus VA Medical Center serves some 40,000 veterans each year. Staffed by four dentists, two residents (including Peter G. Vayanos, D09) and two student externs, Togus is the only VA dental clinic in the vast, mostly rural, often-snowy part of Maine surrounding the state's capital. In this respect, the veterans are like most residents of Maine,



The veterans come from as far away as Calais, on the Canadian border, for exams, treatment, “even for social interaction. They don’t think twice about the distance.”

—MICHELLE HAMILTON, D05

which suffers from a severe shortage of dentists. Maine has just one dentist for every 3,400 residents; the United States, on average, has one per 1,700. The veterans come from as far away as Calais, on the Canadian border, for exams, treatment, “even for social interaction,” says Hamilton. “They don’t think twice about the distance.”

Hamilton, who earned a master’s in biochemistry and a Ph.D. in anatomy and physiology before enrolling at Tufts Dental School, initially planned to return to her home state of Illinois and work off her \$360,000 in education debt in private practice. But after graduating in 2005, Hamilton did her residency at Togus. She says she found the work so gratifying that when a permanent position opened up in 2007, “I decided I’d like to stay.”

“Working for the government, we’ll never make as much as in private practice,” acknowledges Hamilton, who took the VA job before she learned about the Tufts loan assistance program from Mark Gonthier, the dental school’s associate dean of admissions and student affairs. “I accepted that, but it’s nice to have some help,” she says, noting that many loan assistance programs do not consider VA employees eligible. “Tufts’ program is unique that way.”

“Every student who graduates with a loan worries about how to pay it off,” Tufts President Lawrence S. Bacow says. “We hope the LRAP program will make it easier for our graduates to pursue their passions and make a difference in the world.”

For Chang, LRAP has done just that. He describes himself as having been at a “crossroads,” looking to purchase a private practice, when the opportunity to work in the California correctional system presented itself. “It took me about a year to figure things out, but right now, I can honestly say I love my job, and I’d like to stay with the Department of Corrections and Rehabilitation,” he says. “Perhaps I’ll get into private practice when I retire in nineteen years,” he jokes. **TDM**

FOR MORE INFORMATION ABOUT THE TUFTS LOAN ASSISTANCE REPAYMENT PROGRAM, GO TO [HTTP://LRAP.TUFTS.EDU](http://LRAP.TUFTS.EDU).

Jacqueline Mitchell, a senior health sciences writer in Tufts’ Office of Publications, can be reached at jacqueline.mitchell@tufts.edu.

Footloose

In an intricate pas de deux, Adrina DeVitre
navigates life as a dental student and a dancer

BY JULIE FLAHERTY PHOTOS BY JOHN SOARES



Adrina DeVitre, D12,
rehearsing at Symphony Hall.



IT'S A MONDAY AFTERNOON IN A MOSTLY EMPTY SYMPHONY Hall as Boston Pops conductor Keith Lockhart rehearses for tomorrow night's performance, a tribute to the Ballets Russes. He is bowed over his sheet music, his hand marking time to the playback of a recording. Only when Adrina DeVitre takes the stage and begins her dance solo does Lockhart look up from the page, his hand still keeping the beat, to watch. Although her smile is probably choreographed to enhance the appearance of effortless, she looks genuinely happy. Is it the playful dance steps? The prestigious locale? Or is she just glad to be taking a break from studying for her physiology exam?

As a professional dancer and a dental student, DeVitre is most likely the only member of the class of D12 who can perform a *grand jeté* as easily as a cavity prep. Between high school and college, she spent three years performing professionally with the Boston Ballet, the Dance Theatre of Harlem and the BalletMet Columbus. While she put most dancing on hold during her first year of dental school, this special performance with the Pops in May was a welcome outing. Sitting for several hours in class isn't easy for someone so used to constant movement.

"I was very excited to run off and go to rehearsal a couple times a week for this," she says.

Dentistry and dancing have long been a part of her life. Her parents, Virginia Shahinian, D77, DG79, and Rustam DeVitre, DG76, DI77, met at Tufts. As a girl, DeVitre often assisted them in their dental practices in Boston and Hingham.

“My mom would be called in during off hours—‘Adrina, get in the car’—so I started like that,” she says. “It just felt natural. I would go assist my parents, and I would crave grabbing the instruments. I love the little trinkets, all the burs, and those kinds of things.”

And dancing? Even as a little girl, she says, “I wouldn’t play with dolls or games or anything like that. Just run around the house dancing.”

“It’s just *very intuitive to me* how to move the drill because I’ve been basing my movement off a mirror my whole life.”

—ADRINA DEVITRE, D12

Not wanting to dampen her daughter’s creativity and sense of spirit, her mother didn’t sign her up for lessons until she was about 8, and when she did, DeVitre wasn’t very enthused. Her teacher paid more attention to the girls she had trained since they were toddlers.

DeVitre’s real interest in ballet began at age 10, when she earned a tiny role in the Boston Ballet production of *The Sleeping Beauty*.

“I walked out on stage with a massive wig and hat, carried a tray to the Lilac Fairy, and then marched off,” she says. The role was minimal, but seeing the costumes, the live orchestra and the beautiful dancers opened her eyes. “Wow,” she thought. “This is such a magnificent world.”

The next year, she tried out for the Boston Ballet’s production of *The Nutcracker*. Although she showed up late and slightly disheveled for the audition (“My mom wasn’t much of a stage mother, because, you know, she was a dentist”), she landed, to her great surprise, the central role of Clara. DeVitre thinks her enthusiasm and expressive style gave her an edge.

“When I dance, I feel like I’m in my

element and can communicate my emotions or those of my character freely,” she says. She performed so well she was asked to repeat the role the following year.

By eighth grade, she was commuting to Boston six days a week to attend class at the Boston Ballet School, often not returning home until 10 p.m. “I would be so tired I would go to sleep and wake up at four in the morning to do my homework,” she says.

Dental school may be tough, but it’s nothing compared to balancing dance training and academics at Milton Academy, where she went to high school. The dichotomy was harder on her psyche than her toes. In school, her teachers expected her to bring

her insights to lively class discussions. But in ballet class, where the teachers are considered all-knowing (she has trained with luminaries Jean-Pierre Bonnefoux, Patricia McBride and Violette Verdy, three of George Balanchine’s favorite dancers, for example), silence was the rule.

“I went from being expected to contribute and having a voice to being in ballet and having no voice—being a body, an instrument,” she says.

Even so, by age 16 she knew she wanted to be a professional ballet dancer. She deferred her admission to Columbia University and went to dance for the Boston Ballet.

At 5-feet, 3-inches, she is on the smaller side for ballet dancers, which means she is often cast in fast roles with lots of jumps and turns, such as the Cupid Variation in *Don Quixote*, which is “about balancing and flirting with the audience,” she says. If the part calls for spunky, bubbly and lots of personality, it’s hers.

Unfortunately, after dancing with two other companies in New York and Ohio, a knee injury threatened her ability to dance full time. She began to look at other career

options. Besides, she says, “I wanted to get back into the classroom and continue stimulating my brain.” After three years of deferrals, she told Columbia University she was ready.

Throughout college, where she studied pre-med and French, she experimented with different dance styles. She joined an Indian classical fusion dance troop as well as a hip-hop group called Raw Elementz, which often performed at halftime during Columbia basketball games.

“I went from performing in these beautiful old theaters to the basketball court,” she says. “But it was so much fun, and the crowd was so enthusiastic.”

DeVitre, who has always loved learning about the body, chose dentistry as a profession in the hope it will give her the flexibility to continue dance training and performing. Her parents may have been something of an influence, too.

“I can’t deny that they encouraged me to pursue a dental career,” she says.

Her dance training has prepared her in unexpected ways for dental school. When her professor presents the class with a cavity prep to copy for a practical, it reminds her of the countless times she has had to replicate a teacher’s dance step. By now, copying is something of a forte for her.

She also enjoys doing wax-ups, sculpting a complete tooth based on a fragment. After years of studying the body and the myriad ways a foot can turn or a hand can be posed, she appreciates the lines and contours of a tooth. “I think ballet helps me see details that can often be overlooked,” she says.

And when some of her classmates were struggling to use the mouth mirror to work on upper teeth, she was amused that “indirect vision” was second nature to her.

“It’s just very intuitive to me how to move the drill because I’ve been basing my movement off a mirror my whole life,” she says. “In ballet, you continuously look in the mirror to assess the way your body moves.”

If barre work is suddenly added to the dental school curriculum, you’ll know who to thank. **TDM**

Julie Flaherty, a senior health sciences writer in Tufts’ Office of Publications, can be reached at julie.flaherty@tufts.edu.

HARDLY RETIRING

BY JULIE FLAHERTY PHOTOGRAPH BY WEBB CHAPPELL

Leaving behind a 35-year career in teaching and research, Robert Chapman has no intention of sitting on the sidelines

IN THE LATE 1970S, ROBERT CHAPMAN, A63, D67, DG74, THEN ON the faculty at Tufts Dental School, was having lunch with George Zarb, a respected prosthodontist from Toronto. Zarb mentioned that he was traveling to Sweden because he had read some compelling scientific literature by Per-Ingvar Brånemark on the possibility of dental implants becoming a reality.

“And I pooh-poohed it,” Chapman recalls. “I said, ‘Oh, that’s not going to happen. All these charlatans talk about dental implants, and they are just trying to make money.’ ”

A few years later, Zarb introduced dental implants to North America, making a science-backed case that impressed even the skeptical Chapman. Now it was his turn to convince Tufts Dental School to embrace the technology. He and Norman Shepherd, D64, DG67, then a professor of oral and maxillofacial surgery, volunteered to give lectures about implants to students after-hours. They got a company to donate materials, persuaded the school to invest \$30,000 in equipment (“In 1985, this was a lot of money,” Chapman says), and the Tufts Dental Implant Center, one of the first in the country, was born.

The implant center is just one milestone for Chapman, professor and chair of the department of prosthodontics and operative dentistry, who retired in August after 35 years on the faculty. He has lectured internationally on prosthodontics, occlusion, craniofacial function, quality of life in dentistry and dental implants. He has written articles, research abstracts and textbook chapters. He is a triple Jumbo who is leaving a legacy of teaching, research and even ethics reform. Not that he’s particularly slowing down. He’ll continue to see patients in his private practice and has scheduled a trip to dental schools in Thailand and Singapore, where he will consult on electronic dental records, among other things.



Robert Chapman's "retirement" agenda is full: consulting for dental schools overseas, exploring the possibilities that electronic patient records present for research and continuing in private practice are among the items on his to-do list.

Chapman knew he wanted to be a dentist from about age 12. He was indirectly influenced by his mother, a nurse, who taught him to care for others, and his father, an electrician, who taught him the value of being your own boss. He may also have been thinking of his family dentist, who lived in a nice house and, more memorably, had a nice car. “He drove a Packard,” recalls an admiring Chapman.

CURIOSITY HELPS A PATIENT

After getting a bachelor’s degree in biology and a dental degree from Tufts, he spent five years as a dental intern in the U.S. Navy, where he did exciting things like work at a top-secret communications base in Australia. But perhaps most important, he worked for an inspiring oral surgeon, Robert Middleton, who led the dental service at Oakland Naval Hospital, where Chapman did his internship.

“He was one of those people who had tremendous curiosity about everything,” Chapman says. “He knew a lot because he read a lot. And he encouraged all us interns to read a lot,” including dental journals from other specialties. That was how Chapman came to learn about temporomandibular disorders, a lesson that helped him make the first big difference in a patient’s life. The patient, a naval officer’s wife, had persistent head pain that no one could explain.

“For years she had been seeing psychiatrists and ear, nose and throat specialists,” Chapman recalls. The woman had had extractions as a kid, but without replacements for those missing teeth, her jaw muscles and joints were not properly positioned. “I made her dentures that opened up her bite, and she became pain-free for the first time in 20-some years. I was so proud of myself.”

After the Navy, Chapman was offered a teaching fellowship in the prosthodontics department at Tufts. He earned his postgraduate certificate in 1974 and stayed on as a faculty member.

When he returned to Tufts, Chapman brought along the curiosity he had learned from his mentor, Middleton. “If something really interests me, I start investigating it and putting together what might seem to be very disparate pieces of information,” he says. “That has probably been one of the things that has made me successful in some ways and thought of as being a little wacky in others.”

For example, a friend who practiced transcendental meditation led him to a book on how meditation can benefit the body, including lowering blood pressure. Chapman wondered if TM could help with wound healing. Although he couldn’t test meditation per se, he and his colleagues at Tufts did find some interesting

connections between its opposite—psychological stress—and the immune system. Looking at saliva samples from dental student volunteers, they found that students had fewer salivary immunoglobulins (markers of immune health) during exam periods and more after less-stressful times, such as summer break. The results were published in the *Lancet* in 1983. With his interest in the immune system piqued, he went on to study how well bone heals around different implant surface materials.

But perhaps Chapman’s biggest embrace of the disparate was seeing a connection between dental health records and DNA. It came out of conversations with his brother-in-law, a Compaq executive who sold supercomputers to the biologist Craig Venter for use in mapping the human genome. As soon as electronic health records systems became available to dental schools in the early 1990s, Chapman saw the potential for mining that data. Just as the map of the human genome has provided scientists with new avenues for advances in medicine, the properly coded dental records of large numbers of patients could help researchers identify patterns, such as links between certain medications and periodontal disease. Chapman, the school’s director of informatics, founded and chairs a consortium of 20 dental schools that have adopted a standardized form for collecting patient information; eventually, they will share their data. “There are a million patient visits a year out of these 20 schools,” he says.

In his spare time, Chapman has sought to enhance ethics education at the School of Dental Medicine. He was instrumental in establishing the school’s ethics committee in 1996 and creating a two-year ethics course that all students take. It warns students of the moral—and practical—pitfalls of actions like “taking money from insurance without doing the work or claiming more [work] than is warranted,” he says. “If you’re caught, you suffer badly.”

If nothing else, retirement may give Chapman more time with his partner of nine years, Marc Yang, a professor of French literature at Wingate University in North Carolina, and with Yang’s two teenage daughters, who he counts as part of his family.

Asked how his students would characterize him, Chapman replies, “Past students would say tough but fair.” When other faculty members started teaching the bulk of the classes in the department, he only had to be fair.

“One thing I learned in the Navy was the captain should always be the good guy,” he says. “The executive officer is the S.O.B.” **TDM**

“IF SOMETHING
REALLY INTERESTS ME,
I START INVESTIGATING
IT AND PUTTING TOGETHER
WHAT MIGHT SEEM TO BE
VERY DISPARATE PIECES
OF INFORMATION.”

—ROBERT CHAPMAN

Julie Flaherty, a senior health sciences writer in Tufts’ Office of Publications, can be reached at julie.flaherty@tufts.edu.



New spaces, clockwise from top left: a postgraduate conference room; patient reception area in a postgraduate clinic; the continuing education laboratory; and the 75-seat continuing education amphitheater. Opposite page: the 108-seat simulation clinic features a wall of windows.



Building Up(date)

Heading for the final stretch and planning for the big move **by Julie Flaherty**

FOR MONTHS, FACULTY, STUDENTS, STAFF AND ALUMNI HAVE ABSORBED the details of the vertical expansion project that has added five floors to the building at One Kneeland Street. They've read the updates on elevator openings and closings, and, for the most part, nodded approvingly when they saw the architectural drawings and floor plans.

"And then they see the space," says Mark Gonthier, associate dean of admissions and student affairs, "and to the person, it's 'Wow.'"

They comment first on the abundant natural light, let in by long swathes of floor-to-ceiling windows, and encouraged across the rooms by glass walls, soft paint colors and maple cabinetry. Then they marvel at the spaciousness—the 108-chair pre-clinical simulation laboratory, which runs nearly the entire length of the fourteenth floor, and the 75-seat continuing education amphitheater, which frames a phenomenal view of downtown Boston.

"The people who have seen the postgraduate clinics," Gonthier says, "have

appreciated the quality of the space," including the open operatories and private treatment rooms. The clinics are complemented by separate laboratories for prosthodontics and orthodontics, plus specially designed and ventilated porcelain, casting, plaster and CAD/CAM rooms.

The major construction is done, aside from the front entrance, which will soon feature a more striking glass entryway in keeping with the design of the upper floors. New microscopes, X-ray machines, furniture and artwork are on their way. Soon after the dedication ceremony on November 20, the

administrative offices (including some people who have been working in rented space outside One Kneeland Street) will begin moving to the fourteenth and fifteenth floors.

Once the clinics close for the winter break on December 17, the endodontics and orthodontics departments will move to the eleventh floor, and the periodontics and prosthodontics departments will take up residence on the twelfth floor. By the time second semester begins on January 4, the waiting rooms will be ready to receive patients.

Everything is on schedule, right down to the arrival of a half dozen tractor-trailers that delivered the new dental chairs and consoles in the beginning of August.

This adherence to the timeline is all the more amazing considering the building remained open for teaching and patient care throughout the 18-month construction project. To minimize disruptions, the builder, the project manager and the school engaged in some careful choreography, planning around exam periods and occasionally relocating classes so that noise and vibrations would not disrupt the learning process.

“We really have not lost a single day because of construction,” says A. Joseph Castellana, the school’s executive associate dean. “This is not to say that there haven’t been inconveniences.” The underpinnings of a new freight elevator, for example, are now positioned in what used to be the office of Stanley Alexander, D75A, chair of pediatric dentistry. “Dr. Alexander has been permanently displaced from his office,” Castellana says. “He took it extremely well.”

The project was recently nominated for a Building of America Award by *Real Estate & Construction Review* magazine, in part because of the ingenuity required to expand a skyscraper in a crowded urban area. Because the building is bordered by

busy streets, a subway line, a sky bridge and narrow alleys, there was no maneuverable and structurally sound spot to secure the crane that hoisted construction materials to the five new floors.



“We had to ultimately bolt it to the roof of the building,” says Tony Miliote, managing director of health care and science for Shawmut Design and Construction, which is doing the work. Although such workarounds have been done before, “it is very, very rare,” he says.

The contractor also had to think from the top down when it came time to erect the façade of the building. With no ground area to secure a scaffold, they suspended 19 scaffolds around the face of the building, a more dangerous and more complicated process. Even so, “it’s been a very smooth job,” Miliote says.

One of Castellana’s favorite features is the internal staircase that unites the clinics on floors 11 and 12. The architects, he says, were sensitive to the fact that they “were taking programs that were physically in very close proximity—in fact, in too close proximity—and spreading them out not only from one floor to two, but in twice the square footage. We segregated them but didn’t want to alter the way clinicians and patients among the four programs interact.”

The central staircase, he says, is “vast and bright and airy” and visually connects the two floors. A similar staircase between the fourteenth and fifteenth floors should

foster interactions between the continuing education center and the alumni lounge one floor above. “It is also a way to help alumni engage with the school,” he says.

One design change could have an important impact on the very culture of the dental school. Both the eleventh and twelfth floors are divided into two distinct halves: patient treatment and consultation areas on the west side, and supporting offices, conference areas and locker rooms on the east.

Castellana, a former hospital administrator, was introduced to the concept at a medical center in Louisiana, although the idea is based on Disney World, where employees are always in character in the public areas, but can speak candidly about park business in areas behind the scenes.

Faculty have already begun referring to the “on-stage” and “off-stage” areas of their departments, Castellana says. The on-stage areas are all about attending to patients. “When you go off stage, you can talk about how difficult the exam was, or discuss a student’s skill or deficits in a setting where the conversation is confidential,” Castellana says.

A similar on-stage/off-stage design is planned for floors 2, 3 and 4, which will be getting their own makeover in the coming years; preliminary plans may be drawn up as early as 2010. In the meantime, small changes, such as replacing the ceiling, lighting and sound system in the eighth-floor pre-clinic, should improve life for pre-doctoral students.

With the new space only months from occupancy, Gonthier thinks back to what it must have been like for the dental school to move to 136 Harrison Avenue in 1949 and to One Kneeland Street in 1972.

“And now you have the next chapter,” he says, “which I think in many ways is positioning us to have the best facility in the country and the best resources in the country.”

The Other Side of Dentistry

Students use Bates Day experience to burnish their research skills **by Jacqueline Mitchell**

“I LEARNED MORE IN ONE SUMMER THAN SOME PEOPLE LEARN in an entire year,” Farah Assadipour, D11, says of her work in Pamela C. Yelick’s lab. Yelick, G89, director of the Division of Craniofacial and Molecular Genetics, and her colleagues are trying to grow replacement teeth for patients who were not born with a full set or have lost some as a result of disease or injury.

Assadipour spent last summer trying to find the ideal material on which to grow the tiny cluster of cells, known as a tooth bud, into a full-sized, well-shaped tooth.

Working with Weibo Zhang, a postdoctoral associate in Yelick’s lab, Assadipour cultured the tooth-bud cells and seeded them on two types of collagen-Matrigel scaffolds to determine which would yield the best tooth. They analyzed protein expression in the young tooth-bud cells to determine how they were thriving and

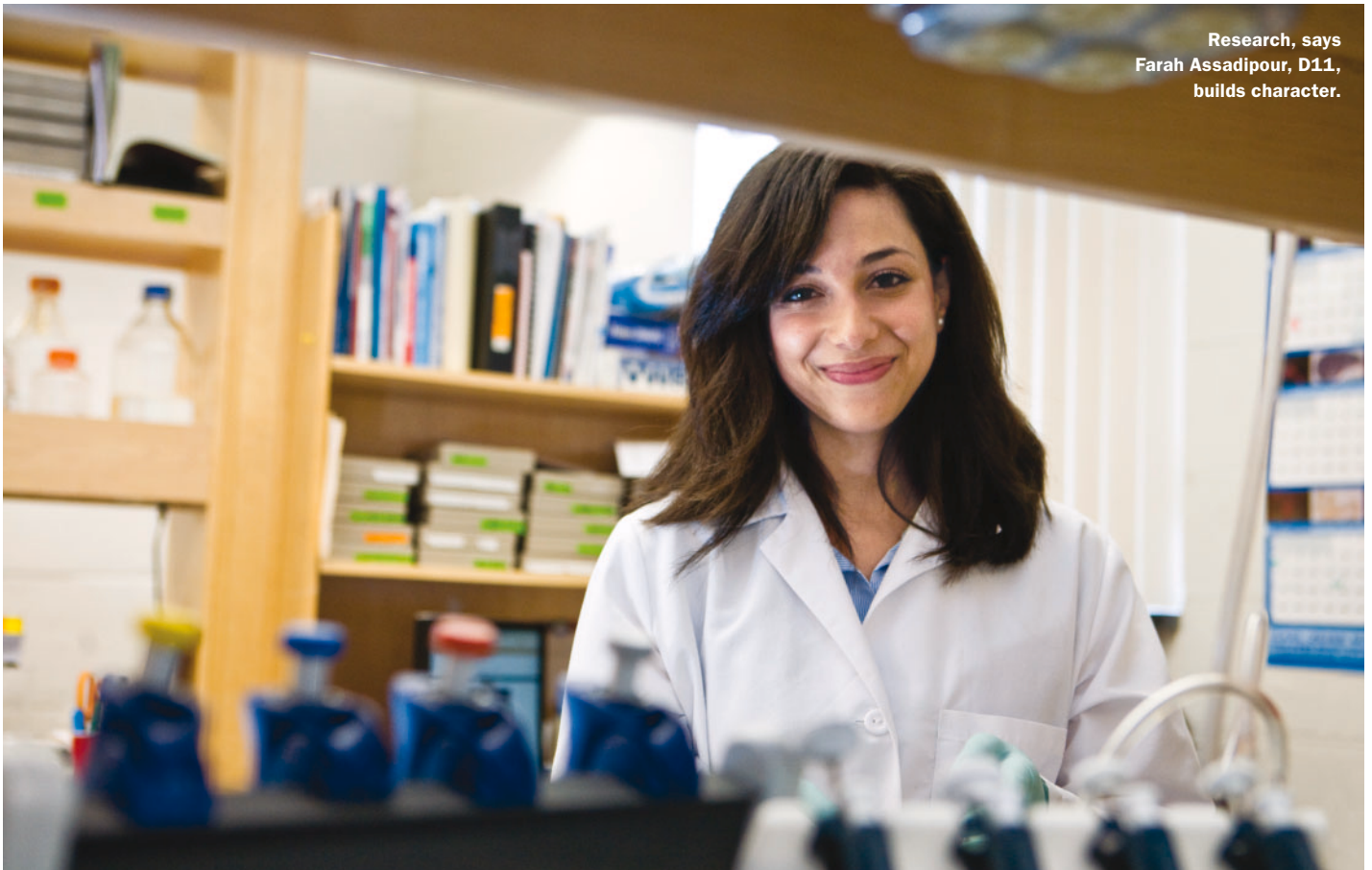
differentiating. “It was a lot of trial and error,” says Assadipour, who is completing her analysis and follow-up on those initial findings.

It was Assadipour’s first foray into research and one that she had hoped would be “a unique experience for me.” She wasn’t disappointed. “I got to learn something nobody else has,” she says.

More than that, Assadipour says, engaging in research is a character-builder. Researchers, she notes, learn to deal with failure and solve problems and adapt to rapidly changing situations. “Doing research really taught me to make decisions on the spot to the best of my ability and to be proud of my choices in the end,” she says. “This was my project from beginning to end.”

At this year’s Bates-Andrews Day, Assadipour’s project, “Bioengineering Dental Microtissues in a Collagen-Matrigel Construct,” received the Research Committee Award for Basic Science Research. In April, she traveled with Yelick to Miami to

Research, says
Farah Assadipour, D11,
builds character.





Samantha Jordan, A06, D11, spent a year at the NIH investigating the association between tooth loss and cancer in male smokers.

present her findings at a meeting of the International Association for Dental Research.

While she is still leaning toward a career in clinical practice, Assadipour says she won't rule out research. "I'm more complete as a student now," she says. "This has been an irreplaceable experience."

A YEAR IN THE BIG LEAGUES

Tufts University and research are practically synonymous, says Samantha Jordan, A06, D11. As an undergraduate majoring in biochemistry, she worked in the lab of Larry Feig, professor of biochemistry at the School of Medicine and director of the biochemistry program at the Sackler School of Graduate Biomedical Sciences. She studied the ras protein, which facilitates communication between cells and also plays a role in early cancer development. When she enrolled at Tufts School of Dental Medicine, the transition to Jonathan Garlick's lab—where researchers investigate oral cancer progression in three-dimensional tissue models—seemed natural.

It was Garlick, director of the Division of Cancer Biology and Tissue Engineering, who encouraged Jordan to apply for a Howard Hughes Medical Institute-National Institutes of Health (HHMI-NIH) Research Scholarship. Jordan was the only dental student in the country to receive one of 42 scholarships awarded for the 2008–09 academic year. She spent the year at the NIH in Bethesda, Md., working with Christian C. Abnet, a scientist in the National Cancer Institute's nutritional epidemiology branch.

Jordan's NIH research, "A Prospective Study of Tooth Loss and Cancer Risk in a Cohort of Male Smokers," won the Massachusetts Dental Society/ASDA Public Health Award at this year's Bates-Andrews Day. The study looked at—and found—a link between tooth loss and some kinds of cancer in men who smoke.

Using data from a long-running Finnish nutritional study, Jordan determined the number of teeth smokers had when they

first enrolled in the study in 1985 and calculated their risk of contracting 18 kinds of cancer over the next 20 years.

She discovered that smokers with fewer teeth indeed ran a higher risk of developing some types of cancer, including lung, esophageal and pancreatic, than did smokers who had more teeth.

Because smoking is known risk factor for both tooth loss and cancer, Jordan had to be sure she was seeing a real association between the conditions, not just two unfortunate consequences of smoking. To do that, she adjusted her model for both the number of years the men smoked and the number of cigarettes they smoked each day. Additionally, she ran another model comparing only people who smoked a pack of cigarettes per day. Both models showed a direct link between edentulism and several types of cancer.

That's important because while the link between oral health and cardiovascular disease, stroke, diabetes and overall health has been well established, Jordan found little research on the relationship between oral health and cancer.

"One of the major goals of public health is to identify modifiable risk factors for disease and to develop effective interventions for prevention," she says. "Oral health is a modifiable risk factor, and it's one that has often been neglected. Compared to smoking, poor oral health may have a much smaller effect on the risk for systemic disease, but it might be easier to get someone to pick up a toothbrush than to put down a cigarette."

Abnet, Jordan's research mentor at NIH, hypothesizes that the association between edentulism and cancer may have to do with

“One of the major goals of public health is to identify modifiable risk factors for disease and to develop effective interventions for prevention.”

—SAMANTHA JORDAN

the oral bacteria that causes tooth loss. Something about the bacteria itself might increase the risk of developing cancer, or the chronic inflammation it causes may predispose the body to the disease. Or, Jordan adds, an underlying genetic component could explain the link.

Now back at Tufts, Jordan's next step is to get her results published. After she completes her D.M.D., she hopes to pursue more formal epidemiology training. She eventually plans on a career combining clinical practice and research.

DEEP IMPACT

Daniel Coleman, D11, didn't intend to engage in public health work when he arrived at Tufts Dental School. But a lecture by Catherine Hayes, D87, chair of public health and community service, opened

his eyes. “There is a huge group of people who aren’t being served by dentists,” he says. “I wanted to do something that would have a direct affect on people.”

He teamed up with Wanda G. Wright, an assistant professor of public health and community service, and BEST Oral Health, a state-funded preventative dentistry program that serves preschoolers in

western Massachusetts, to quantify how oral health affects children’s quality of life, including their ability to eat, play and learn.

Coleman had the dental hygienists in the Bringing Early-Education Screening and Treatment (BEST) program distribute an oral-health questionnaire to the parents of children they treated. The 14-question survey asked parents to rate their children’s

oral health on a scale from one to five, where one was excellent and five was poor. Another set of questions asked about eating and sleeping habits and social life. Questions such as “did your child not feel like playing with his/her friends because of his/her mouth?”—were also scored on a scale from one to five, one being “all of the time,” and five being “did not happen.”

Parents of 390 kids whose average age was 3, completed the survey. As Coleman hypothesized, the data showed significant correlation between oral health status and quality of life.

Coleman wants to build on his Bates Day research, “Early Childhood Caries and Quality of Life in Preschool Children,” by checking in on the 390 children surveyed. Because the kids receive treatment through the BEST program, “I hope to see that their quality of life went up,” he says.

It is a population that is in dire need of dental care. Kids in the Greater Springfield area develop tooth decay at twice the national rate.

“I came to the health profession to help,” Coleman says. “With public health research, you can see the impact on patients immediately. It’s really gratifying.”



“With public health research, you can see the impact on patients immediately,” says Daniel Coleman, D11.

THE THOUGHTFUL PRACTITIONER

To provide patients with ever-higher-quality care, dental education needs to fully embrace biomedical research and all its benefits and teach students to think critically, said Bruce J. Baum, D71, in his keynote address at this year’s Bates-Andrews Day, the School of Dental Medicine’s annual student research fair.

“As health-care professionals we are obliged to improve the standard of care available. I was taught that lesson on my first day at Tufts by Dean [Louis J.P.] Calisti,” said Baum, chief of the gene transfer section

at the National Institute of Dental and Craniofacial Research. Research provides the intellectual basis of dentistry, he said, citing findings on fluoride, antibiotics and vaccines that led to paradigm shifts in clinical practice.

Baum himself is renowned for pioneering research that could lead to quality-of-life improvements for many oral-cancer and dry-mouth patients. Baum still remembers sitting at the back of a lecture hall and chatting to a friend when his “Eureka moment” hit. He knew that radiation treatments for head and neck cancers routinely destroy the salivary

glands—as do certain autoimmune diseases—and the resulting xerostomia leaves patients at high risk for tooth decay. He thought he could deliver genes to make salivary ducts do the work of the damaged gland. “But I had no background in that,” he said.

Trained as a protein chemist, it was his ability to think critically that allowed him to transfer his skills to a different field and build on his flash of inspiration, he said. In 1997, Baum and his colleagues published a seminal paper in the *Journal of Dental Research*, describing novel gene transfer techniques to get dysfunctional salivary

FIRST-RATE SCIENCE **The 2009 Bates-Andrews Day award recipients were:**

Oral Presentation by an M.S. Student:

First Place: **Georgios Kanavakis**, “Qualitative and Quantitative Analysis of Morphometric Occlusal Characteristics in Patients with Temporomandibular Disorders”

Second Place: **Abeer Basunbul**, “Effect of Fluoride Varnish on Enamel Demineralization around Orthodontic Brackets *in vitro*”

Third Place: **Tepei Tsukiyama**, “A Comparison between Asian and Caucasian Teeth Dimension/Size/Proportion in the Esthetic Zone”

Best Postgraduate Poster Presentation:

Leopoldo Correa, “Effect of Oral Appliances on 3 Measurements of Sleep Apnea”

Best Scientific Research Presentation by a Senior (Andrews Society Award):

Furkan Dogan Salam, IS09, “Integrin-blocking Antibodies Delay Keratinocyte Reepithelialization in a Human 3D Wound Healing Model”; faculty mentor: **Jonathan Garlick**

ADA/Dentsply Student Clinician Award for Pre-doctoral Table Clinic:

Best Overall: **Todd Walker**, D10, “Comparison of Total Etch, Self Etch and AIO Adhesives”; faculty mentor: **Gerard Kugel**

Second Place (cash prize donated by Jess Kane, David Tesini and Nancy Jo Soporowski): **Rebekah Lucier**, D11, “Alterations of Three-dimensional Human Tissue Equivalents by Tooth-whitening Agents”; faculty mentors: **Christophe Egles, Susana Ferreira, Jonathan Garlick, Gerard Kugel**

Third Place (cash prize donated by Jess Kane, David Tesini and Nancy Jo Soporowski): **William Stuart McKenzie**, D10, “Anatomical Changes Following SARPE Procedure”; faculty mentors: **Maria Papageorge, Lokesh Suri**

Research Committee Award for Basic Science Research:

Farah Assadipour, D11, “Bioengineering Dental Microtissues in a Collagen-Matrigel Construct”; mentor: **Pamela Yelick**

Massachusetts Dental Society and ASDA Public Health Award:

Samantha Jordan, A06, D11, “A Prospective Study of Tooth Loss and Cancer Risk in a Cohort of Male Smokers”

Omicron Kappa Upsilon (OKU) Hilde Tillman Award:

Rebekah Lucier, D11, “Alterations of Three-dimensional Human Tissue Equivalents by Tooth-whitening Agents”

Procter & Gamble Traveling Fellowship Award:

Catherine DeFuria, D12, “*In vitro* Microleakage Analysis of Bonded and Self-adhesive Cements”; faculty mentor: **Ronald Perry**

Dr. Chad Anderson Family Award for Innovative Methodology and Research Design:

Arman Samad-Zadeh, D11, “The Influence of Laser-textured Dentinal Surface on the Bond Strength”; faculty mentor: **Gerard Kugel**

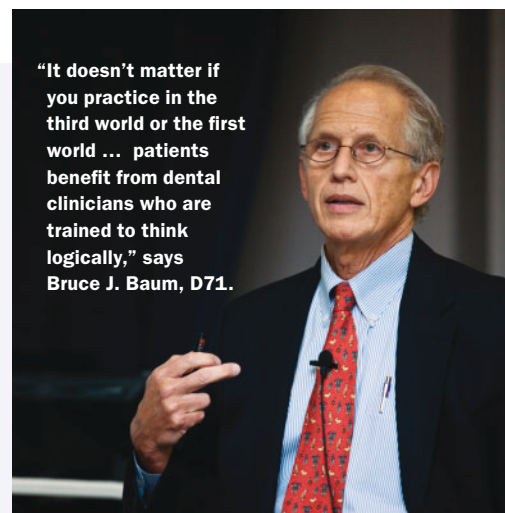
glands up and running again. In 2006, they began clinical trials in humans.

“The take-home message is, ‘Imagination is more important than knowledge,’ ” said Baum, quoting Albert Einstein. “Anyone can memorize facts, but when you know how to think, you can go on your own from there.”

The lab isn’t the only place where critical thinking can lead to improved patient care, Baum argued. “It doesn’t matter if you practice in the third world or the first world, Appalachia or Manhattan; patients benefit from dental clinicians who are trained to think logically.”

Baum worries that some dental schools place more emphasis on manual techniques rather than on critical-thinking skills. Dental students and educators must “recognize that critical thinking is a technique itself,” he said. “That is what scientists do,” he noted, drawing a parallel between a researcher gathering data to develop a hypothesis and a clinician identifying symptoms to develop a diagnosis.

Baum said he was heartened by the research showcased at this year’s Bates-Andrews Day. “I am blown away by the spectrum of different projects,” he said.



“It doesn’t matter if you practice in the third world or the first world ... patients benefit from dental clinicians who are trained to think logically,” says Bruce J. Baum, D71.

“Take advantage of these opportunities at and outside Tufts if you can,” Baum urged. “You’ll be a much better clinician.”

—JACQUELINE MITCHELL

Good Works

ELIZABETH SHENK, D09, WAS ONE OF 13 TUFTS UNIVERSITY students to receive the 2009 Presidential Award for Citizenship and Public Service in recognition of their service and leadership at Tufts. The award, established in 1999 by former Tufts President John DiBiaggio, is one of the university's highest student honors.

Shenk's commitment to community service began more than 15 years ago, when she started volunteering with Operation Smile, a nonprofit that provides treatment for children and adults with orofacial deformities, such as cleft lip and cleft palate. She launched a chapter of Operation Smile at Vanderbilt University, from which she received her undergraduate degree.

Her volunteer work turned into a job—for two years she worked as a mission coordinator, helping launch new health-care

missions in India and overseeing fact-finding trips around the world. As a dental student, she participated in Tufts-sponsored mission trips to Mexico and Nicaragua.

"I know from organizing mission trips, Tufts couldn't have been more supportive," says Shenk. "We have amazing faculty members who go above and beyond the call of duty."

Although the mission trips have occasionally presented unique challenges—one memorable sighting of a scorpion on a table comes to mind—Shenk says her experiences have helped her grow "as a person and as a dentist."

As for receiving the Presidential Award, she says she is humbled by the recognition. "I know there are a lot of people at Tufts who do a lot of amazing things," says Shenk, who now is in private practice in Ohio.



NOTEWORTHY

Twenty-two students were inducted into the national dental honor society, Omicron Kappa Upsilon, at a ceremony on May 15 at the Radisson Hotel Boston. This year's speaker was Patricia Campbell, executive vice president of Tufts University. There was record attendance at this year's ceremony, including 139 OKU alumni members, inductees and family. The D09/IS09 student inductees are **Tasnim S. Arsiwala, Marjan Askari, Young Joon Byun, Lauren Marie Castro, Kevin Kiyounng Chung, Andrew John Daly, Matthew G. Del Mastro, Soojin Jessica Eriksen, Rebecca M. Groves, Maulik Hasumukh Kotdawala, Douglas Peter Laliberte, Moonyoung B. Lee, James Patrick Murphy, Joseph Emanuel Pechter, Kate Elizabeth Perham, Geetika Rastogi, Susan Rizk, Kyung Won Seo, Yasamin Tarassoli, Michael Addair Tarver, Brian Warner and Erik Kalani Wong.**

Gerard Cedrone, administrative coordinator in Academic Affairs, and **Daniel Gillard**, a sterilization assistant

in Central Sterilization, were chosen by their colleagues to receive this year's Golden Crown Award for outstanding performance by a staff member. The criteria for the award, now in its 14th year, includes expertise, exceptional interaction with others, continuous improvement, resourcefulness and results and leadership.

Nicole Cuoccio, D11, had her article, "Avoiding Repetitive Stress Injuries," published in the March 2009 issue of the *American Student Dental Association News*.

Peter Franco, D10, and **Sarah Schlansker**, D10, were among seven Tufts University students who were named 2009–10 Boston Schweitzer Fellows, a program that gives them the opportunity to develop and implement service projects that will have a lasting impact on the health of underserved communities. Franco and Schlansker will collaborate to provide pediatric dental care in underserved communities through the Massachusetts Mobile Access to

Care (MAC) van, a program run by the Massachusetts Dental Society Foundation. They will develop a prevention curriculum to be used on the van.

James P. Murphy, D09, received the American College of Dentists Award at the annual luncheon at Yankee Dental Congress in January. The award is given to a senior identified by the school's administration as "most representative of the American College of Dentists' principles of high achievement, strong leadership and high ethical standards." Also at Yankee Dental, **Todd Walker**, D10, took first place in the Pre-doctoral Student Poster Session with his project, "Comparison of Total Etch, Self Etch and AIO Adhesives," and **Yawen Peng**, a third-year pediatric dentistry resident, was awarded first place in the Postdoctoral Student Poster Session for "Oral Changes and Management in a Patient with Hepatoblastoma."

Allison Piper, D11, received a journalism award for outstanding editorial at the annual session of the American Student Dental Association.



David Delgado smiles for the camera.

Yea, Team

181 receive D.M.D. degrees in May

ON MAY 17, 181 MEMBERS OF THE CLASS OF D09, INCLUDING 23 IN the international students program and seven in the faculty I.S. program, reaped the rewards of their labor, becoming doctors of dental medicine during commencement exercises on the Medford/Somerville campus.

In his address to his fellow graduates, Jason Conforti, president of the class, reminded them that “where we succeeded, we succeeded as a team. We must carry that with us.”

Dean Lonnie H. Norris, DG80, thanked the class for their unity, hard work and patience with the construction project under way as the School of Dental Medicine adds five floors to its building at One Kneeland Street. Norris urged the new doctors to “come back to the beautiful new continuing education space” and to “consider academic dentistry here or at other schools. Dental education needs you,” he said.

Michael Nessim, president of the class of international students who trained at Tufts to practice in the United States, said that the new doctors “should never lose our students’ sense of exploration. We started at a great place. Let Tufts be our reference and our home to come back to.”

Luis Del Castillo, DG99, DI09, assistant professor of prosthodontics and operative dentistry, and Philip Koralishn, associate clinical professor of prosthodontics and operative dentistry, received the Dean’s Award for Excellence in Clinical Teaching. Joanne M. Falzone, D80, also an associate clinical professor of prosthodontics and operative dentistry, shared the Dean’s Award for Excellence in Pre-clinical Teaching with 10-time winner Charles H. Rankin,

Continued on page 32

2009 POSTGRADUATES

In addition to the students pursuing their D.M.D. degrees, another 100 students are enrolled in the dental school’s postgraduate certificate and fellowship programs, which prepare them for specialty practice. The 2009 graduates were:

CRANIOMANDIBULAR DISORDERS AND OROFACIAL PAIN
Hussein Babsail
Gabriela Garza Covarrubias
Lena Elbadawi
Maha Qari

John Nikolovski
Diana Cristina Pardo-Hernandez, DI03
Karim Salem
Emilie Troupe, D07

ENDODONTICS
Brooke Blicher
Kristy Goff
Hubert Randolph Scott III
Chanelle Small
Fernando Urzua
Gregory Van Gordon

PEDIATRIC DENTISTRY
Mohammad Ahmed
Aurora Alva, D07
Ibtyhal Al-Amoudi
Asma Alyahya
Michelle Anderson, D07
Hooman Arjomand
Abeer Basunbul
Yu-Hsuen Jessica Chiang
Wesam Damanhour

ESTHETIC DENTISTRY
Zaharoula Fardella
Teruko Ninokura
Shruti Panjini

Deema Farsi
Radford Goto, D98
Htet Htet, D05
Catherine Ann Kalis, D07
Ian Kott
Jorge Landa, D07
Yawen Peng

GENERAL PRACTICE RESIDENCY
Megan Kibbey
Riina Lobanov
Christine Lonigan
Nikki-Jo Magnifico
Suren Paravyan

PERIODONTOLOGY
Hamad Al-Fahad
John Govostes, D06
James Jun, D06
Stephanie Purner Kiefer, D06
Eduardo Marcuschamer
Maria Leticia Rodriguez Varo
Tepei Tsukiyama

IMPLANT DENTISTRY
Yaser El Kareimi
Luisa Guidi

PROSTHODONTICS
Waleed Altherban
Inna Amirian, D06
Yu-Ching Chang
Naota Kumagai
Ali Muftu, DG95, DG96, DG97, DI02
Tae-Ho Yoon

ORAL AND MAXILLOFACIAL SURGERY
Neophytos Demetriades, DG08
Justin Hendi, A01, D05
Daniel Oreadi

ORTHODONTICS
Julia Jeong-Yeon Choi, D07
Reema Dhingra, D07
Milan Doshi
Jeffrey Goldberg, D07



Jason Conforti, D09
class president

Continued from page 31

D79, DG86, D08P, a professor of endodontics.

The Dean's Award for Excellence in Basic Science Teaching went to Michael A. Kahn, professor and chair of oral and maxillofacial pathology, and the Provost's Award for Outstanding Teaching and Service went to Robert J. Chapman, professor of prosthodontics and operative dentistry. Chapman, A63, D67, DG74, retired in August. (See story, page 23.) Norris presented him with a scroll conferring his new title of professor emeritus.

In addition to the new D.M.D.s, nine students were awarded master's degrees, and 60 received postgraduate certificates of achievement and fellowships.

At the all-university commencement earlier in the day, Massachusetts Gov. Deval L. Patrick reminded the graduates and their families that the country is now being buffeted by forces that are less tangible, but no less threatening, than Hurricane Katrina. "More and more families are working harder and still losing ground," he said. "The poor are in terrible shape and have been for some while. But the difference is that now the middle class is one paycheck away, one serious illness away from being poor and deeply anxious about it.

"That is the world you are about to inhabit ... and I want you to embrace it because crisis is a platform for change," Patrick said. He urged the graduates to see themselves as "pragmatic idealists"—people who can "imagine a better tomorrow and then reach for it."

The university awarded honorary degrees to Patrick and six others: David W. Burke, A57, an accomplished figure in public service and television news; Leslie H. Gelb, A59, a Pulitzer Prize-winning journalist; Sister Margaret A. Leonard, executive director of Project Hope; Patricia Q. Stonesifer, former CEO of the Bill & Melinda Gates Foundation; C. Megan Urry, J77, the Israel Munson Professor of Physics and Astronomy at Yale University; and Robert A. Weinberg, founding member of the Whitehead Institute for Biomedical Research.

—JACQUELINE MITCHELL

Senior Awards

Members of the Class of 2009 received 68 national and alumni awards during the 16th annual Graduation Awards Dinner, which took place on May 8 at the Westin Copley Place. The annual event, sponsored by the Tufts Dental Alumni Association, continues to increase in popularity, with 460 students, faculty, staff and guests in attendance this year. Two students in the Class of 2010 also received awards.

BASIC SCIENCES

Jack Frommer Award for Excellence in the Morphological Sciences: **Lauren Marie Castro**

ENDODONTICS

Alumni Clinical Excellence Award in Endodontics:

Matthew G. Del Mastro

American Association of Endodontists Student Achievement Award:

James Patrick Murphy

Lester P. Goldsmith Endowed Prize Fund in Endodontics:

Bella A. Batsevitsky

ETHICS, PROFESSIONALISM AND CITIZENSHIP

Presidential Award for Citizenship and Public Service: **Elizabeth Greta Shenk**

Dr. Justin Lee Altshuler, D46, and Bernice Lee Altshuler Family Prize Fund for Community Service: **David Armando Delgado Arrambide**

Dr. Justin Lee Altshuler, D46, and Bernice Lee Altshuler Family Prize Fund for Ethics:

Douglas Peter Laliberte

Dr. S. Walter Askinas Endowed Prize Fund for Integrity and Citizenship:

Raymond Michael Murphy Jr.

Association of Tufts Alumnae Senior Award: **BiNa Oh**

Class of D2002 Endowed Prize Fund for Peer Support and Leadership:

Jason David Conforti

American Academy of Dental Practice Administration and

AADPA Endowment & Memorial Foundation 19th Annual Award in Four-Handed Dentistry:

Douglas Delli Colli

GENERAL DENTISTRY

Alumni Clinical Excellence Award in General Dentistry:

Jason Philip Slomovitz

Alumni Clinical Excellence Award in Geriatric Dentistry:

Noreen Adhiambo Orinda

Academy of General Dentistry Senior Student Dental Award:

Young Joon Byun

American Academy of Oral and Maxillofacial Radiology Achievement Award:

Surender Reddy Tippi Reddy

American Academy of Orofacial Pain Outstanding Senior Award:

Leah M. Younis Massoud

American Academy of Craniofacial Pain Award:

Joseph Francis Carey

Gentle Dental Senior Endowed Prize Fund for Exceptional Chair-side Manner: **Helen Hoi-Yen Ching** and **Sonal Atulbhai Naik**

Dean's Award for Distinguished Performance in Pharmacology:

Matthew G. Del Mastro

American Equilibration Society Senior Award: **Paula Ann Lobo**

IMPLANTOLOGY

American Association of Oral and Maxillofacial Surgeons Dental Implant Student Award:

Nadezhda Dmitrievna Pokrovskaya

International Congress of Oral Implantologists/Sullivan-Schein

Dental Pre-doctoral Achievement Award: **Susan Rizk**

American Academy of Implant Dentistry Dental Student Award: **Nasem Mojarrad**

Academy of Osseointegration Outstanding Dental Student in Implant Dentistry Award: **Lauren Marie Castro**

LEADERSHIP

American Association of Women Dentists Dr. Eleanor J. Bushee Senior Dental Student Award: **Emily Suzanne Smith**

American Student Dental Association Award for Excellence: **Timothy Charles Hardy**
The Pierre Fauchard Academy Senior Student Award: **Richard A. Dickinson, Jr.**

American College of Dentists Award: **James Patrick Murphy**

ORAL AND MAXILLOFACIAL SURGERY

Alumni Clinical Excellence Award in Oral and Maxillofacial Surgery: **James Patrick Murphy**

American Association of Oral and Maxillofacial Surgeons Dental Student Award:

Tasnim S. Arsiwala

American Dental Society of Anesthesiology Horace Wells Senior Student Award:

Matthew Renner Wimmer

Robert E. O'Neil, D51, Prize in Oral Surgery:

Lauren Marie Castro

ORAL PATHOLOGY

Alumni Clinical Excellence Award in Oral Pathology:

Kate Elizabeth Perham

American Academy of Oral and Maxillofacial Pathology Senior Student Award:

Kyung Won Seo

American Academy of Oral Medicine Certificate of Merit and Award: **Srinivas Iragavarapu**

ORTHODONTICS

American Association of Orthodontists Award: **Moonyoung B. Lee**



Joseph Carey, D09, receives the Dr. Frederick A. Romberg, D29, Endowed Prize Fund Recognizing Outstanding Personal and Professional Growth during the Four Years of Dental Education at the annual Graduation Awards Dinner. Presenting the award are Dean Lonnie H. Norris and Elizabeth R. Bernstein, Romberg's daughter.

Everett Shapiro, DG49, Endowed Prize Fund in Orthodontics: **Timothy Charles Hardy**

PEDIATRIC DENTISTRY

Alumni Clinical Excellence Award in Pediatric Dentistry: **Daniel Peter Fanikos**

American Academy of Pediatric Dentistry Certificate of Merit Pre-doctoral Student Award: **Michael Corey Brown Dowling**

PERIODONTOLOGY

Alumni Clinical Excellence Award in Periodontology: **Jeong Sook Lee**

American Academy of Periodontology Dental Student Achievement Award: **Joseph Emanuel Pechter**

Quintessence Award for Clinical Achievement in Periodontics: **Michael Addair Tarver**

Northeastern Society of Periodontists Award: **Brian Warner**

Dr. Richard Delson, D70, Endowed Prize Fund for Excellence in Periodontology and Prosthodontics: **Benjamin Chan**

PERSONAL AND PROFESSIONAL GROWTH

Dr. Frederick A. Romberg, D29, Endowed Prize Fund Recognizing

Outstanding Personal and Professional Growth during the Four Years of Dental Education: **Joseph Francis Carey**

Dr. Frank Susi, DG67, Endowed Prize Fund for Future Faculty Promise and Distinction: **Matthew G. Del Mastro**

Dean Lonnie H. Norris, DG80, and Dr. Donna M. Norris Senior Endowed Prize Fund for Achievement, Professionalism and Strength of Character: **Ryan T. Stanger**

International College of Dentists Student Leadership Award: **Jason David Conforti**

Delta Sigma Delta Dental Senior Award for Academic Achievement: **Lauren Marie Castro**

Alpha Omega Graduating Senior Student Award: **Kevin Kiyoung Chung**

PUBLIC HEALTH DENTISTRY

Academy of Dentistry for Persons with Disabilities Student Award: **Meredith L. Jones**

Alumni Clinical Excellence Award in Public Health Dentistry: **Leila Roumani**

American Association of Public Health Dentistry Dental Student Recognition Award for Achievement in Community

Dentistry and Dental Public Health: **Eunice Delgado**

Dr. Esther Kaplan Colchamiro, D42, and Ralph Colchamiro Endowed Prize Fund for Community and Public Health: **Matthew Thomas Navidomskis**

RESEARCH

Dr. Harold Berk Endowed Prize Fund for Excellence in Research: **Timothy Charles Hardy**

Erling Johansen, D49, Senior Student Research Endowed Prize Fund: **Richard A. Dickinson Jr.**

Quintessence Award for Research Achievement: **Amanda Beth Jones**

American Association of Oral Biologists Award: **Marjan Askari**

RESTORATIVE DENTISTRY

Alumni Clinical Excellence Award in Restorative Dentistry: **Julia Michelle Young**

Academy of Dental Materials Annual Student Award: **Supriya S. Vasanth**

Academy of Operative Dentistry Award: **Amanda Gales Belden**

American Academy of Esthetic Dentistry Student Award of Merit: **Claudiu Octavian Marin**

Rudolph Hanau Award for Excellence in Prosthodontics: **Erik Kalani Wong**

A. Albert Yurkstas, D49, Endowed Prize Fund in Complete Denture Prosthodontics: **Corinne Anne Coughlin**

Dr. and Mrs. Albert J. Kazis Endowed Prize Fund in Crown and Bridge: **Sabeen Tiwana and John Van Dang**

Joseph R. Evans Endowed Prize Fund in Clinical Operative Dentistry: **Sarah Ann Passarella**

Quintessence Award for Clinical Achievement in Restorative Dentistry: **Mehdi Karimipour-Saryazli**

Dr. Joseph E. Primack, D42, Endowed Prize Fund in Prosthodontics: **Piro Lenó**

MOVING ON

The post-graduation pursuits of the Class of 2009

ALABAMA

Mehdi Karimipour
Postgraduate Program in
Prosthodontics, University of Alabama

Warren Thiry
Private Practice

ALASKA

James Murphy
AEGD, U.S. Air Force, Anchorage

ARIZONA

Azher Abbas
GPR, Winslow Indian Health Care
Center

Debbie Derisse
AEGD, Lutheran Medical Center, Tucson

Yakov Khaydatov
Private Practice, Phoenix

Marissa Kuhn
AEGD, Winslow Indian Health Care
Center

Bansi Mithani
AEGD, Lutheran Medical Center, Tucson

Ryan Stanger
Private Practice

Supriya Vasanth
Private Practice, Phoenix

CALIFORNIA

Young Joon Byun
GPR, Ranchos Los Amigos National
Rehabilitation Center, Downey

Lauren Castro
Oral and Maxillofacial Surgery
Residency/M.D. Program,
University of California, San Francisco

John Dang
Private Practice, San Diego

David Delgado
Pediatric Dentistry, UCLA Venice
Community Health Clinic

Hyucksoo Hong
Private Practice

Shira Levy
AEGD, Shasta Community
Health Dental Center, Redding

Dina Mejia
Private Practice, Los Angeles

Nasem Mojarrad
Pediatric M.P.H. Residency,
University of Southern California

Cassandra Nguyen
Private Practice

Stephani Nguyen
Private Practice, San Jose

Yasamin Tarassoli
Private Practice

Erik Wong
Postgraduate Program in
Prosthodontics, University of California,
San Francisco

Julia Young
Private Practice, Fremont

CONNECTICUT

Tyler Carmack
Private Practice

Stephanie Katz
GPR, Yale-New Haven Hospital

David Dayang Wu
Private Practice

DISTRICT OF COLUMBIA

Antoinette Ramdath
Private Practice

FLORIDA

Eunice Delgado
U.S. Air Force, MacDill Air Force Base,
Tampa

David Donelson
AEGD, University of Florida,
Jacksonville

Tara Fogel
Private Practice

Vanessa Hazbun
Private Practice

Matthew Navidomskis
National Health Service Corps,
Fort Myers

Jonathan Overson
GPR, Malcom Randall VA Medical
Center, Gainesville

Michael Tarver
Residency in Pediatric Dentistry,
University of Florida

GEORGIA

Jae Hee Chang
Commissioned Officer, U.S. Army,
Fort Benning

HAWAII

Helen Ching
GPR, Queen's Medical Center, Honolulu

Jacob Roskelley
Private Practice

INDIANA

Ashleigh Rexford
GPR, Indiana University
School of Dentistry

ILLINOIS

Vlad Botezatu
Private Practice

Bela Joshi
Private Practice

Paula Lobo
GPR, Loyola University Medical Center

Eric McLean
Private Practice, Chicago

Radhika Sripathi
Private Practice

Dhaval Thakkar
Private Practice

LOUISIANA

Adam Schuessler
Fellowship in Oral and Maxillofacial
Surgery, Louisiana State University,
New Orleans

MAINE

Douglas Delli Colli
Private Practice

Rebecca Groves
Public Health Clinic

Douglas Laliberte
Community Health Program, Waterville

Meera Sharma
Private Practice, Waterville

Peter Vayanos
AEGD, Togus VA Hospital, Augusta

MARYLAND

Marjan Askari
Postgraduate Program in Orthodontics,
University of Maryland

Erin Palmer
GPR, National Naval Medical Center,
Bethesda

Surender Reddy Tippi Reddy
Private Practice

Susan Rizk
Private Practice

MASSACHUSETTS

Bella Batsevitsky
Postgraduate Program in Endodontics,
Tufts University School of Dental
Medicine

Amanda Belden
Private Practice

Jeffrey Benecchi
Private Practice

Danielle Bienenfeld-Slater
Private Practice, Boston

Quynh Nhu Bui
Private Practice, Boston

Laura Castro
Faculty, Tufts University
School of Dental Medicine

Jake Jinkun Chen
Faculty, Tufts University
School of Dental Medicine

John Cogliano
Private Practice, Boston

Jason Conforti
GPR, University of Massachusetts
Medical Center, Worcester

Corinne Zamaitis Coughlin
Private Practice, West Bridgewater

Jeffrey Damon
Postgraduate Program in
Prosthodontics, Tufts University
School of Dental Medicine

Luis Del Castillo
Faculty, Tufts University
School of Dental Medicine

Matthew Del Mastro
Postgraduate Program in Endodontics,
Tufts University
School of Dental Medicine

Rebecca Dewolf
Private Practice, Boston

Allison Douglas
Private Practice, Waltham

Michael Brown Dowling
Postgraduate Program in Pediatrics,
Boston University

Thaïda Duong
Private Practice, Springfield

Soojin Eriksen
Private Practice

Daniel Fanikos
Postgraduate Program in Pediatric
Dentistry, Tufts University
School of Dental Medicine

David Fiore
Private Practice, Wakefield

Nidhi Gehlot
Private Practice, Boston

Stephen Goldstein
Private Practice, Boston

Maria Eugenia Gonzalez
Faculty, Tufts University
School of Dental Medicine

Timothy Hardy
GPR, Lutheran Medical Center, Boston

Kenpan Hu
Private Practice

Ani Janbazian
Private Practice, Boston

Susmitha Jasti
Private Practice, Boston

Amanda Jones
Private Practice

Meredith Jones
GPR, Tufts University
School of Dental Medicine

Sunghwan Ko
Private Practice

Maulik Hasmukh Kottawala
Private Practice

Maria Kritsineli
Faculty, Tufts University School of
Dental Medicine

Constantinos Laskarides
Faculty, Tufts University
School of Dental Medicine

Jeong Sook Lee
Postgraduate Program in
Prosthodontics, Harvard University

Moonyoung Lee
Master's Program in Orthodontics,
Tufts University School of Dental
Medicine

Piro Leno
Private Practice

Xinyan Liu
Private Practice

Carolyn Lubrano
AEGD, Lutheran Medical Center,
Boston, and M.P.H.,
Tufts University School of Medicine

Claudiu Marin
Private Practice, Boston

Aruna Pappu
Private Practice, Boston

Sarah Passarella
Private Practice, Boston

Joseph Pechter
Postgraduate Program in Periodontics,
Tufts University
School of Dental Medicine

Chelsea Perry
Private Practice, Boston

Eric Piascik
Private Practice, Boston

Demi Pirpiris
Private Practice, Boston

Sahana Ramos
Private Practice, Boston

Hillary Rosse
Private Practice

Leila Roumani
AEGD, Lutheran Medical Center, Boston

Furkan Salam
Research, Boston

Jane Saltman
Private Practice, Boston

Kyungwon Seo
Private Practice

Moses Shin
Private Practice

Elizabeth Simpson
Private Practice

Sabeen Tiwana
Private Practice, Boston

Hoangvu Vo
Community Health Center, Boston

Brian Warner
Private Practice, Boston

Caitlin White
GPR, Brigham and Women's Hospital,
Boston

Fan Yu
Massachusetts Access Program,
Boston

Karina Zaygermakher
Private Practice, Newton

MICHIGAN

BiNa Oh
Postgraduate Program in Periodontics,
University of Michigan, Ann Arbor

Matthew Wimmer
Oral Surgery Internship, St. John's
Health System, Detroit

NEVADA

Ali Behnoud
Private Practice

NEW HAMPSHIRE

Andrew Albee
Private Practice, Suncook Dental,
Pembroke

Stephanie Lee
Private Practice

Geetika Rastogi
Private Practice

Jason Raynor
Private Practice

NEW JERSEY

Michael Nessim
Private Practice

Jason Slomovitz
Private Practice

NEW YORK

Anatoly Bartov
GPR, Kings County Hospital, Brooklyn

Kevin Chung
Pediatric Residency, Montefiore
Medical Center

Dong-Soo Hong
GPR, State University of New York,
Stony Brook

Srinivas Iragavarapu
GPR, New York Medical College

Thomas Jones
GPR, Nassau University Medical Center

Ross Katkowski
GPR, Strong Memorial Hospital,
Rochester

Edward Lee
GPR, Veterans Administration Medical
Center, Brooklyn

Jeslin Mathew
GPR, State University of New York,
Stony Brook

Nisha Patel
GPR, Kings County Hospital, Brooklyn

Marisa Patt
GPR, Lutheran Medical Center,
Brooklyn

Kate Perham
GPR, St. Peter's Hospital, Albany

Joel Preminger
GPR, Maimonides Medical Center,
Brooklyn

Mahsa Rostami
GPR, Montefiore Medical Center

Robin Schiller
Residency in Dental Anesthesia, State
University of New York, Stony Brook

Kathryn Schirmer
GPR

Aekta Shah
GPR, Queens Hospital

Lobsang Tsomo
GPR, Coler-Goldwater Hospital

Jenn Yi Chen Wei
GPR, State University of New York,
Stony Brook

NORTH CAROLINA

Whitney Carraway
Private Practice, Snow Hill

Peter Cervenka
AEGD, U.S. Navy, Camp Lejeune

Jeremy Louk
U.S. Navy, Camp Lejeune

OHIO

Elizabeth Shenk
Private Practice

OREGON

Stephen Allen
Private Practice, Grants Pass

PENNSYLVANIA

Erin Braukus
Associate, Community Health Center

Benjamin Hsu
Private Practice, Philadelphia

Sonal Naik
Private Practice

Noreen Orinda
Private Practice

Ekta Patel
Private Practice

RHODE ISLAND

Angela Choi
GPR, Rhode Island Hospital,
Providence

Brendan Gouin
Private Practice

Jason Hencler
Postgraduate Program in Pediatric
Dentistry, St. Joseph's Hospital,
Providence

Leah Younis Massoud
AEGD, Veterans Administration Medical
Center, Providence

Erin McManus
Private Practice, East Greenwich

Raymond Murphy Jr.
Postgraduate Program in Pediatric
Dentistry, St. Joseph's Hospital,
Providence

SOUTH CAROLINA

Jeremy Gies
U.S. Navy

Holly Turkat
Private Practice

TEXAS

David Gomez
Private Practice, Houston

Sara Macway
GPR, Veterans Affairs Medical Center,
Houston

Yen Ngo
Private Practice, Houston

Nadezhda Pokrovskaya
Residency in Oral and Maxillofacial
Surgery, Lackland Air Force Base,
San Antonio

Lee Tran
Private Practice, Houston

Andrew Vaughn
Private Practice

UTAH

David Rasmussen
Private Practice

VERMONT

Andrew Daly
Private Practice, Middlebury

Richard Dickinson
GPR, Fletcher Allen, Burlington

Emily Smith
Community Health Center, Plainfield

VIRGINIA

Tasnim Arsiwala
Private Practice

Justin Edwards
Postgraduate Program in Pediatric
Dentistry, Virginia Commonwealth
University

Bahram Eshraghi
Private Practice

James Moshier
Private Practice, Centreville

Aisha Nasir
Private Practice

WASHINGTON

Michael Allison
Private Practice, Seattle

WISCONSIN

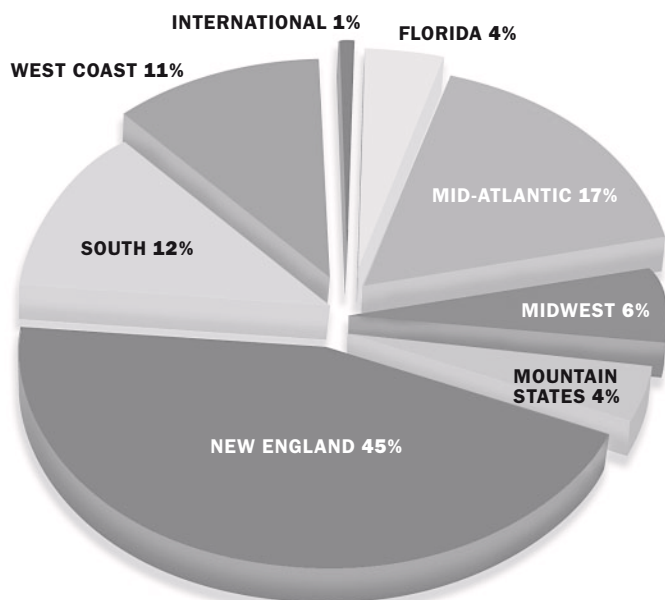
Shana Reeson
Private Practice

OVERSEAS

Joseph Carey
U.S. Navy, Okinawa, Japan

Young Woo Lim
Military Service, South Korea

CLASS OF 2009 DISTRIBUTION



SOURCE: Data reported by 149 members of the D.M.D. Class of 2009 and 29 members of the Dental International Class who graduated in May 2009.

ENDODONTICS

Charles Rankin, D79, DG86, D08P,

professor, is this year's recipient of the Dean's Award for Excellence in Pre-clinical Teaching, the tenth time he has received the award.

GENERAL DENTISTRY

Leopoldo Correa, assistant professor, was a guest speaker at the Clinica de Trastornos del Sueño (Sleep Disorders Clinic) at the Universidad Nacional Autónoma de México (Mexico National University) in Mexico City on April 22, when he lectured about the role of dentists in the treatment of obstructive sleep apnea using oral appliances.

Kanchan Ganda, JOOP, M04P, professor, and **Gülsün Gül, MPH04**, a former assistant professor who is now a postgraduate student in pediatric dentistry, received the 2009 Richard Allard Award from the Massachusetts Dental Society in recognition of their work with survivors of domestic violence. In 2003, Ganda and Gül established the Tufts Dental Outreach to Survivors (DOTS) program, which provides referrals for free, confidential dental care to domestic abuse victims. The patients are referred to DOTS by area hospitals and community health centers. The dental society's Committee to Prevent Abuse and Neglect presents the Allard Award to an individual or group whose efforts have heightened awareness of the abuse and neglect of children, the elderly and the disabled, as well as domestic violence survivors. The award was named in memory of Richard Allard, a founding member of the committee, who was influential in introducing issues of abuse and neglect in dental school curricula.

JOHN HSU, D184, assistant clinical professor, has been appointed to the Board of Registration in Dentistry for the Commonwealth of Massachusetts. His term runs through January 2, 2014.

DAVID LEADER, D85, assistant clinical professor, was the guest speaker at the Scleroderma Spring Forum on April 26 at the Hospital for Special Surgery in New York City. Leader is the Scleroderma Foundation's Doctor of the Year for 2008–09.

William Lobel, D72, assistant clinical professor and group practice coordinator
PRESENTATIONS:

- "Implant Overdenture Fabrication," annual meeting of the Nantucket Dental Society, Nantucket, Mass., June 12–13, 2009.
- "Prosthetic Updates for the 21st Century," Tufts University School of Dental Medicine continuing education course, May 22, 2009.
- Hands-on continuing education courses related to implant-retained and conventional denture impression techniques, 45th annual meeting of the Jamaica Dental Association, Ocho Rios, Jamaica, February 12–14, 2009, and the annual meeting of the Texas Dental Association, San Antonio, May 7–9, 2009.
- "Removable Prosthetics: Back to the Future," Yankee Dental Congress, January 29, 2009.

PROMOTIONS:

Michael Thompson, A97P, A06P, to professor

Karen Wallach, D85, to associate clinical professor

ORAL AND MAXILLOFACIAL PATHOLOGY

Jonathan Garlick, professor and head of the Division of Cancer Biology and Tissue Engineering, participated in a National Institutes of Health workshop on "Decision-making in T1 Translational Research" in February. The workshop, sponsored by the National Center for Research Resources, was aimed at identifying common problems encountered during the practice of translational research. As chair of the Translational Technologies and Resources Component of Tufts University's Clinical and Translational Sciences Institute, Garlick presented a lecture on "Engineered 3D Tissue Models: Translational Tools in the Discovery Pipeline."

GRANTS:

- "Evaluation of New Human Skin Equivalent Grafts," Organogenesis Inc., \$11,872.
- "Effect of New Devices on Human Skin-like Tissues," Organogenesis Inc., \$16,070.
- "Development of Novel 3D Tissue Models for Screening," Proctor & Gamble Inc., \$125,000.

PRESENTATIONS:

- "Stem Cells, Tissue Engineering and the Future of Personalized Medicine," Tufts' Clinical Research Graduate Program, May 2009.
- "Engineered Human 3D Tissue Models: Translational Tools for the Discovery Pipeline," Almond Board of California Research Committee, May 2009.
- "Stem Cells: How Far Will We Go?," Gann Academy High School, Waltham, Mass., May 2009.
- "Human Stem Cells and the Future of Dentistry," Tufts School of Dental Medicine Homecoming and Reunion Weekend, May 2009.
- "Engineering Human Skin and Epithelial Tissues," Princeton University Skin Biology Course, April 2009.
- "Core Services in Tissue Engineering at Tufts University," Tufts Cancer Center Advisory Board, April 2009.
- "Microenvironmental Cues Direct 3D Tissues from Human Embryonic Stem Cells," annual meeting of the International Association for Dental Research, Miami, Fla., April 2009.
- "Beyond the Embryo: Reprogramming and Alternative Sources of Pluripotent Stem Cells," Siena University Dental School, November 2008.

PUBLICATIONS:

- "Epidermal Cells: Methods and Protocols" and "Three-dimensional Tissue Models of Wounded Skin," C. Egles and J.A. Garlick, *Methods in Molecular Biology*, Humana Press Inc. (2009).
- "Human Skin-equivalent Platforms for the Pre-clinical Development and Testing of New Wound-healing Agents," C. Egles and J.A. Garlick, *Wound Healing Society Almanac*, 2009.
- "Three-dimensional Epithelial Tissues Generated from Human Embryonic Stem Cells," K. Hewitt, Y. Shamis, M.W. Carlson, E. Aberdam, D. Aberdam and J.A. Garlick, *Tissue Engineering (A)*, April 2009.
- "Biofunctionalized Electrospun Silk Mats as a Topical Bioactive Dressing for Accelerated Wound Healing," A. Schneider, X. Wang, D. Kaplan, J.A. Garlick and C. Egles, *Acta Biomaterialia*, 2009.



With a little help from Jumbo, a boy practices his brushing technique.

MISSION TO ECUADOR

Aidee Herman, associate clinical professor of periodontology, led a team of 21 faculty members, students and guests on a mission trip to Ecuador on April 18–25, when they provided care to 500 children and adults at three sites in Quito, the country's capital.

"One of our goals was to teach the children and parents about the importance of oral hygiene and the necessity to brush and floss daily," said Monica Rancourt, D10. Jumbo the elephant, the university's mascot, provided the perfect teaching tool. The students used the stuffed Jumbo to demonstrate proper brushing technique.

Each patient received a cleaning, followed by any necessary fillings or extractions. The students, Rancourt said, rotated through the various work stations, so each got exposure to cleanings, fillings and extractions.

"It was a powerful experience for all of us who participated," she said.

Other members of the dental mission team included Paul Levi, D66, DG71, A95P, associate clinical professor of periodontology; Frank Shin, associate clinical professor of prosthodontics and operative dentistry; Matthew Navidomskis and Leila Roumani, both D09; Geraldine Navarrete, Tracy Shaw, Aerwen Pollard, Jenna Khoury, Jinju Song, Michael Bohman, Olivia Peiretti-Paradisi and Nicholas Barone, all D10; and Arlene Pimentel, William Trahan and Fernando Velasquez, all D12.

Michael A. Kahn, professor and chair, is this year's recipient of the Dean's Award for Excellence in Basic Science Teaching. He was elected vice president of the American Academy of Oral and Maxillofacial Pathology on May 19 during the organization's annual meeting in Montreal, Canada. Kahn also attended the American Dental Association's Code Revision Committee meeting on February 12–13 in Chicago; the annual meeting of the American Dental Education Association in March in Phoenix, Ariz.; and a meeting of the American Dental Association's Test Construction Committee on June 9–11 in Chicago.

COMMUNITY SERVICE:

- Oral Cancer Screening, with **Michael Hall**, assistant professor, Neponset Valley Council on Aging, Millis, Mass., April 18, 2009.

CONTINUING EDUCATION

PRESENTATIONS:

- "Diagnosis and Management of Common Oral Pathology Soft Tissue Lesions," June 13, 2009, Nantucket, Mass.
- Moderator, Tufts' 4th Annual Oral Cancer Symposium, Boston, June 5, 2009.

- "Practical Oral Pathology," Boston, March 25, 2009.

- "Head and Neck Examination in Pre-doctoral Education: How Much is Enough?," annual meeting of the American Dental Education Association, Phoenix, Ariz., March 17, 2009.

- "Histological Diagnostic Pitfalls and Dilemmas of Oral and Maxillofacial Pathology," U.S. and Canadian Academy of Pathology, Boston, March 13, 2009.

- "Oral Pathology Short Stories and Tales," Massachusetts Dental Society, Mayan Riviera, Mexico, March 10–11, 2009.

- "Using Course Sites Effectively," sixth annual Health Sciences Mini-Symposium for Teaching and Learning, Tufts University School of Medicine, February 6, 2009.

- "Bisphosphonate-related Osteonecrosis of the Jaws Update," Charles River Dental Study Club, Wellesley, Mass., December 2, 2008.

PRESENTATIONS:

- Online forum of the International Oral Lichen Planus Support Group, guest participant, February 24, 2009.
- "Adjunctive Oral Mucosa Screening

Devices," Tufts School of Dental Medicine preceptors' orientation meeting, January 28, 2009.

PUBLICATIONS:

- "Oral Cancer: A Prosthodontic Diagnosis," M.A. Siegel, M.A. Kahn and M.J. Palazzolo, *Journal of Prosthodontics*, 18(1):3–10, 2009.
- "Clinicopathologic Conference: Woman with Severe Facial Pain," S.J. Scrivani, B. Chandwani, D.A. Keith, M. Kahn and C. Heilman, *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology & Endodontics*, 107:151–6, 2009.
- "Clinician's Corner: A Clinico-Pathologic Correlation: Ameloblastic Carcinoma," J.A. Kraus, M.A. Kahn and K. Shastri, *Journal of the Massachusetts Dental Society*, 57(4): 36–8, Winter 2009.
- "Clinical Roundtable: The Changing Face of Cancer," M.A. Kahn, W.L. Balanoff and S.D. Benjamin, *Inside Dentistry*, April 2009.
- "Clinician's Corner: A Clinico-Pathologic Correlation: Subacute Necrotizing Sialadenitis," J. Hendi, M.A. Kahn and M. Papageorge, *Journal of the Massachusetts Dental Society*, 58(1):36–7, Spring 2009.

Lynn Solomon, associate professor, was elected vice president of Omicron Kappa Upsilon, the national dental honor society. She served as the presiding chair at Yankee Dental Congress 34 for a seminar by Michael Siegel titled "Dermatology: In My Mouth?" on January 30, and on February 24, she was a guest participant in an online forum for the International Oral Lichen Planus Support Group, hosted by Terry D. Rees and Nancy W. Burkhart from the Baylor College of Dentistry. At the 63rd annual meeting of the American Academy of Oral and Maxillofacial Pathology in Montreal in May, she contributed four clinical cases, exam questions and answers and a literature review for the Continuing Competency Assurance Program.

PRESENTATIONS:

- "Development of an ELISA Test for Chronic Ulcerative Stomatitis," Beutner Laboratories, Buffalo, N.Y., May 13, 2009.
- "Oral Pathology Essentials: From Cancer to Common Conditions for the Dental Hygienist," continuing education course, Bedford, Mass., May 6, 2009.
- "In Vitro Models of CUS Antibody Effects on Epithelial Tissues," 87th general session of the International/American/Canadian Association for Dental Research, Miami, Fla., April 4, 2009. Also served as the Epithelial Cell Biology Oral Session chair for the Oral Medicine & Pathology Group at the meeting.
- "Management of Painful Oral Ulcerations," Yankee Dental Congress 34, Boston, January 31, 2009.

PUBLICATIONS:

- "Sensitivity of Direct Tissue Fluorescence Visualization in Screening for Oral Premalignant Lesions," K. Huff, P.C. Stark and L.W. Solomon, *General Dentistry*, 57(1):34-38, 2009.
- "In Vitro Models of CUS Antibody Effects on Epithelial Tissues," M. Carlson, J.A. Garlick and L.W. Solomon, *Journal of Dental Research*, 88, (Spec Issue A):2905, 2009.

Pamela C. Yelick, G89, professor

ABSTRACT PRESENTATIONS:

- "Bioengineering Dental Microtissues in a Collagen-Matrigel Construct," F. Assadipour, W. Zhang, R. Litterman and P.C. Yelick, International Association of Dental Research, Miami, Fla., April 1-4, 2009.

- "Microscopic Analysis of hDSCs on Nanocrystalline Diamond Films," S.E. Duailibi, M.T. Duailibi, L.M. Ferreira, M.C. Salvadori, F.S. Teixeira, A. Pasquarelli, J.P. Vacanti and P.C. Yelick, International Association of Dental Research, Miami, Fla., April 1-4.

- "Optimization of Culture Conditions for Human Dental Stem Cells," M.T. Duailibi, S.E. Duailibi, L.M. Ferreira, R. Posciolaro, M.S. Kallas, J.P. Vacanti and P.C. Yelick, International Association of Dental Research, Miami, Fla., April 1-4.

- "Skeletal Development in the Robustly Mineralized Antarctic Black Rockcod *Notothenia coriiceps*," W. Detrich, R.C. Albertson, P.C. Yelick and J. Postlethwait, Third Strategic Conference of Zebrafish Investigators, Asilomar, Calif., January 24-28, 2009.

GRANTS:

- "Dental Stem Cells and Tooth Tissue Engineering," principal investigator, National Institute of Dental and Craniomandibular Research and National Institute of Biomedical Imaging and BioEngineering.

- "Alk8 Regulation of Replacement Tooth Formation," principal investigator, National Institute of Dental and Craniomandibular Research.

- "Accurate Whole Tooth Tissue Engineering Using Novel Microgel Scaffolds," principal investigator, National Institute of Dental and Craniomandibular Research.

PRESENTATIONS:

- "Role of Dental Stem Cells in Tissue Regeneration," Research Summit co-sponsored by the American Association of Oral and Maxillofacial Surgeons, the International Association of Oral and Maxillofacial Surgeons and the Oral and Maxillofacial Surgery Foundation, Chicago, May 7-8, 2009.

- "Introduction to Stem Cells," American Association of Endodontists annual session, Orlando, Fla., May 1, 2009.

- "Craniofacial and Tooth Development and Regeneration," Interdisciplinary Approaches in Fish Skeletal Biology, Tavira, Algarve, Portugal, April 27-29, 2009.

- Chair and speaker for the session on "Craniofacial and Dental Tissue Engineering," meeting of the Tissue Engineering and Regenerative Medicine International Society of North America, San Diego, Calif., December 7-10, 2008.

PUBLICATIONS:

- "Zebrafish *wnt9b* Expression in First and Second Arch, Cardiac and Pectoral Fin Bud Morphogenesis," P.A. Jezewski, P.-K. Fang, and P.C. Yelick, *Zebrafish*, 5(3):69-77, 2008.

- "Bioengineered Dental Tissues Grown in the Jaw," S.E. Duailibi, M.T. Duailibi, R. Asrican, J.P. Vacanti and P.C. Yelick, *Journal of Dental Research*, 87(8):745-50, 2008.

- "Craniofacial Reconstructions Using Hybrid Tooth-bone Constructs," W. Zhang, H. Abukawa, M. Troulis, L. Kaban, J.P. Vacanti and P.C. Yelick, *Tissue Engineering Methods*, 47(2):122-8, 2009; Epub, October 7, 2008.

- "Reconstruction of Mandibular Defects with Autologous Tissue-engineered Tooth and Bone," H. Abukawa, W. Zhang, C.S. Young, J.P. Vacanti, L.B. Kaban, M.J. Troulis and P.C. Yelick, *Journal of Oral and Maxillofacial Surgery*, 67(2):335-47, 2009.

- "Phylogenetic Analysis, Alternative Splicing and Pharyngula Expression of Zebrafish *tbx22*," P. Jezewski, P.-K. Fang and P.C. Yelick, *Developmental Dynamics* (in press).

ORAL AND MAXILLOFACIAL SURGERY

Roger Galburt, clinical professor and head of the Division of Implantology, attended a conference on evidence-based dentistry May 28-30 at the American Dental Association in Chicago.

Morton B. Rosenberg, D74, professor and director of dental anesthesia and pain control, has been appointed chair of the Sedation Committee of Tufts Medical Center, a primary teaching hospital of Tufts University School of Medicine. The committee is responsible for quality assurance, education, credentialing and policy for moderate sedation providers in all venues at the medical center. Rosenberg and **William Stuart Mackenzie, D10**, published an article in the *Journal of Oral and Maxillofacial Surgery* (67:1265-1268, 2009) titled "Iatrogenic Subcutaneous Emphysema of Dental and Surgical Origin: A Literature Review."

PRESENTATIONS:

- "Enteral Sedation Update," "Anesthesia Assistant Review Course" and "High Fidelity Human Simulation for Respiratory and

Cardiovascular Emergencies,” American Dental Society of Anesthesiology, Chicago.

■ “Proof of Concept Emergency Airway Rescue Course,” Chicago and Las Vegas.
■ “Sedation and Anesthetic Emergencies and Crisis Team Resources” and “Pilot Emergency Airway Course,” Sinclair College, Dayton, Ohio.

■ “High Fidelity Human Simulation in the Management of Medical Emergencies,” two half-day courses, Yankee Dental Congress, Boston.

■ “Sedation Emergencies for the Dental Assistant: The Pediatric Patient and the Use of Nitrous Oxide-oxygen in Dentistry,” “Sedation and Anesthetic Emergencies and Crisis Team Resources Using High-fidelity Human Simulators,” “Introduction to Enteral Sedation: Enteral Sedation Review Course” and “The Pediatric Patient: Enteral Sedation Review Course,” American Dental Society of Anesthesiology, Las Vegas, Nev.

■ “Nitrous Oxide-oxygen Sedation,” “Medical Emergencies in the Dental Office” and “Preparing Your Office for a Medical Emergency: Role of the Dental Team,” Tufts University School of Dental Medicine continuing education courses.

■ “Sedation and Anesthesia in Dentistry,” keynote address, annual meeting of the American Student Dental Association, Louisville, Ky.

■ “A Comprehensive Review of Sedation for the Pediatric Dental Patient,” the Alan Anderson Memorial Lecture, Rady Children’s Hospital, Anderson Center for Dental Care, San Diego, Calif.

■ “The Dental Team Approach to Medical Emergencies,” Connecticut Dental Society, Charter Oak annual meeting, Mohegan Sun, Conn.

■ “Sedation Guidelines and Competency,” Grand Rounds, Department of Neurosurgery, Tufts Medical Center.

■ “Sedation Guidelines and Competency,” Grand Rounds, Department of Gastroenterology, Tufts Medical Center.

PUBLICATIONS:

■ “Student to Student Local Anesthesia Injections in Dental Education: Moral, Ethical and Legal Issues,” M. Rosenberg, D.L. Orr II, E.D. Starley and D.R. Jensen, *Journal of Dental Education*, 73(1):127–132, 2009.

■ “Nitrous Oxide and the Inhalation Anesthetics,” D.E. Becker and M.B. Rosenberg, *Anesthesia Progress*, 55:124–131, 2008.

■ “New Guidelines for the Use and Teaching of General Anesthesia and Sedation by Dentists,” M.B. Rosenberg, Eastern Dentists Insurance Co. *Clinical Dentistry Advisor: White Paper* (in press).

ORTHODONTICS

Barry Briss, D66, DG70, D95P, DG97P,

professor and chair, is now the secretary-treasurer of the American Board of Orthodontics.

Lokesh Suri, DI01, DG03, DG04,

associate professor, presented a paper titled “Influence of Patient Head Positioning on Measured Axial Tooth Inclination in Panoramic Radiography” at the annual meeting of the Eastern Component of the Edward H. Angle Society of Orthodontia in Newport, R.I., on March 28.

PERIODONTOLOGY

Timothy J. Hempton, associate clinical professor, has been reappointed as a consultant to the Commission on Dental Accreditation.

PRESENTATIONS:

■ “Contemporary Periodontology for the General Dentist,” New York State Academy of General Dentistry Master Track Program, April 2009.

■ “Implant Dentistry and the RDH,” “The Periodontal Co-therapist” and “Contemporary Periodontology for the General Dentist,” Star of the South Meeting, Houston, Texas, April 2009.

■ “Contemporary Periodontology for the General Dentist,” Georgia Academy of General Dentistry Master Track Program, March 2009.

■ “Mentoring in Postdoctoral Periodontology,” presented with **Terrence Griffin, D71, DG75,** associate professor, annual meeting of the American Dental Education Association, Phoenix, Ariz., March 2009.

■ “Contemporary Periodontics for the General Practice,” New Hampshire Dental Society, March 2009.

■ “Crown Lengthening Workshop,” Hinman Dental Meeting, Atlanta, March 2009.

■ “An Update on Dental Implant Therapy for the General Dentist,” New England Masters Study Club, Springfield, Mass., January 2009.

■ “Crown Lengthening Workshop” and “The Periodontal Co-therapist: Contemporary Periodontology for the RDH,” Yankee Dental Congress 34, Boston, January 2009.

Rory O’Neill, associate clinical professor, was a keynote speaker at the Irish Dental Association’s annual scientific meeting, held in Kilkenny, Ireland, April 22–25, when he gave presentations on “Periodontology from the Beginning to the Obama Period and Beyond” and on “Maintaining Implants.”

PROSTHODONTICS AND OPERATIVE DENTISTRY

Abhayjit Bedi, DG00, DI02, associate clinical professor, has achieved diplomate status with the American Board of Prosthodontics.

Robert Chapman, A63, D67, DG74,

professor, received this year’s Provost’s Award for Outstanding Teaching and Service. (See story on his Tufts career, page 21.)

Luis Del Castillo, DG99, DI09, assistant professor, and **Philip Koralishn,** associate clinical professor, were the recipients of this year’s Dean’s Award for Excellence in Clinical Teaching.

Joanne Falzone, D80, associate clinical professor, received this year’s Dean’s Award for Excellence in Pre-clinical Teaching.

Gerard Kugel, D85, M.S.93, professor and associate dean for research, has completed his yearlong term as president of the American Academy of Dental Science. He was the invited speaker at the University of Buffalo Student Research Day on March 5, when he gave a presentation titled “Research & Dentistry: Who Cares?” Kugel and a team of Tufts Dental faculty and students spent this past spring break providing care at an orphanage in the Dominican Republic. The team included **Jason Slomovitz, A05, D09; David Paul,**

D89, associate professor of oral diagnostics; **Lisa Gonzalez, D10**; **Michael Butera, D10**; **Heidi Aaronson, D08**; **Samir Patel, D10**; **Paul Trombly, D85**, associate clinical professor of oral diagnostics; and **Zuzana Mendez, DG97, DI08**.

ABSTRACTS:

- “Smear Layers Thickness of Temporary Materials Against Air and PVS,” Q.N.T. Bui, L. Tran, R. Perry, G. Kugel and P. Stark, *Journal of Dental Research*, 87:3279, 2009.
- “Flow Behavior of Hand-dispensed Impression Materials at Different Amounts,” L. Tran, Q. Bui, R. Perry, G. Kugel and P. Stark, *Journal of Dental Research* 87:3297, 2009.
- “Comparison of Total Etch, Self Etch and AIO Adhesives,” T.W. Walker, G. Kugel and P. Stark, *Journal of Dental Research*, 87:1808, 2009.
- “Shear Bond Strength of Veneer Adhesives,” N. Ebrahimi, G. Kugel, M. Harsono and J. Orfanidis, *Journal of Dental Research*, 87:2341, 2009.
- “Clinical Evaluation of 3-D Bleaching Shade Guide,” S. Ferreira, G. Kugel, S. Sharma, R.D. Paravina and C. Anderson, *Journal of Dental Research*, 87:2378, 2009.
- “Dimensional Repeatability from the LAVA COS 3D Intra-oral Scanning System,” S. Balakrishnama, K. Wenzel, J. Bergeron, C. Ruest, B. Reusch and G. Kugel, *Journal of Dental Research*, 87:2951, 2009.
- “Comparing Flow Behavior of Hand-dispensed vs. Auto-mixed Impression Materials,” R. Perry, L. Tran, Q. Bui, G. Kugel and P. Stark, *Journal of Dental Research*, 87:3296, 2009.
- “Bond Strength Testing of Self-Etch Adhesives on Enamel and Dentin,” T. Duong, R. Perry, G. Kugel, J. Towers, M. Harsono and C. Defuria, *Journal of Dental Research*, 87:2318, 2009.
- “In Vitro Microleakage Analysis of Bonded and Self-adhesive Cements,” R. Perry, J. Carey, C. Defuria, G. Kugel, J. Orfanidis and P. Stark, *Journal of Dental Research*, 87:505, 2009.
- “Microleakage Evaluation between Mineral Trioxide Aggregate and Restorative Materials,” W. Damanhoury, P. Stark, C.Y. Loo, A. Aboushala, M. Attar and G. Kugel, *Journal of Dental Research*, 87:47, 2009.
- “Shear Bond Strength of All-in-One Bonding Agent to Enamel and Dentin,” M. Harsono,

C. Defuria, R. Perry, G. Kugel, J. Towers and P.C. Stark, *Journal of Dental Research*, 87:2316, 2009.

- “Retention of Self-adhesive Luting Cements to Zirconia Copings,” J. Carey, R. Perry, G. Kugel, J. Towers, M. Harsono, C. Defuria and J. Orfanidis, *Journal of Dental Research*, 87:1836, 2009.
- “The Influence of Laser-textured Dentinal Surface on the Bond Strength,” A. Samad-Zadeh, G. Kugel, M. Harsono, C. Defuria, P. Stark, A. Belikov and A. Skripnik, *Journal of Dental Research*, 87:487, 2009.
- “Alterations of Three-dimensional Human Tissue Equivalents by Tooth-whitening Agents,” R. Lucier, G. Kugel, O. Etienne, M. Carlson, S. Ferreira, C. Egles and J.A. Garlick, *Journal of Dental Research*, 87:1647, 2009.

PRESENTATIONS:

- “Porcelain Veneers,” Texas Dental Association annual meeting, San Antonio, May 9, 2009.
- “Esthetics Dentistry & All Ceramics,” Tunica Mississippi Study Club, Tunica, Miss., May 1, 2009.
- “Esthetic Materials & Techniques,” Boca Study Club, Boca Raton, Fla., March 10; South Shore Dental Meeting, Winthrop, Mass., April 15; and Peninsula Hospital Center, Far Rockaway, N.Y., April 24, 2009.
- “Hands-on Porcelain Veneer Course,” Yankee Dental Congress, Boston, January 28–30, 2009.
- “Do’s and Don’ts of Laminate Veneers, All Ceramic Crowns,” Greater New York Dental Conference, December 1–2, 2008.

PUBLICATIONS:

- “Clinical Trial Assessing Light Enhancement of In-office Tooth Whitening,” G. Kugel, S. Ferreira, S. Sharma, M.L. Barker and R.W. Gerlach, *Journal of Esthetic and Restorative Dentistry*, June 2009.
- “Amorphous Calcium Phosphate Sealants: The Potential to Remineralize,” S. Sharma and G. Kugel, *Inside Dentistry*, Vol. 5, No. 4, pages 78–80, April 2009.
- “Composites and Whitening: How and When to Combine Treatments,” G. Kugel, S. Ferreira and R. Perry, *Dentistry India*, Vol. 2, No. 1, pages 22–26, Winter 2008.

Amit Sachdeo, assistant professor, gave a presentation on “Biofilms in the Edentulous

Oral Cavity” at the Greater New York Academy of Prosthodontists scientific meeting, which took place at Columbia University on June 5. Sachdeo and **Matthew Finkelman**, assistant professor of general dentistry, mentored **Svetlana Konfino, D11**, and **Ross Icyda, D11**, for their study titled “An Analysis of Patient Grievances at Tufts University School of Dental Medicine,” which the students presented at the school’s Bates-Andrews Research Day on March 11.

PUBLIC HEALTH AND COMMUNITY SERVICE

Medha Singh, DG04, M.S.05, assistant professor, gave a presentation on “Benefit of Stannous Fluoride Sodium Hexametaphosphate Dentifrice in a Xerostomic Population” at the annual meeting of the International Association for Dental Research in Miami, Fla., in April. PUBLICATION:

- “Benefit of Stannous Fluoride Sodium Hexametaphosphate Dentifrice in a Xerostomic Population,” M. Singh, A.S. Papas and R.W. Gerlach, *Journal of Dental Research*, 88 (Spec. Issue A), #119241, 2009.

Athena Papas, J87, professor and head of public health research and oral medicine, was selected as the 2009 recipient of the International Association of Dental Research (IADR) Pharmacology-Therapeutics-Toxicology Research Award. Papas received the award during the IADR’s 87th General Session & Exhibition in Miami, Fla., on April 1. One of the highest honors bestowed by IADR, the award is given for outstanding and sustained peer-reviewed research that has contributed to knowledge of the mechanisms and efficacy of drugs used in dentistry. Papas has had a distinguished research career in multiple areas of dental drug and device therapy. Her major focus has been as principal investigator on clinical trials involving various aspects of dry mouth (xerostomia), including drug therapy for patients with Sjögren’s syndrome, a disease that causes a person’s immune system to attack and destroy the salivary glands.

Uneasy Alliance

How do we make sure that academic medicine isn't tainted by ties to drug companies? by Jacqueline Mitchell

TO MOST BOSTONIANS, THE IDEA would be patently absurd. What if the umpires calling a Red Sox-Yankees game were on the Steinbrenners' payroll?

"It's a pretty basic principal—we all recognize that people in a position of judgment shouldn't have ties to the parties they judge," said Adam C. Urato, assistant professor of obstetrics and gynecology at the School of Medicine. He was the keynote speaker at a Tufts symposium on conflict of interest in academic medicine.

Urato first became concerned with conflicts of interest in medicine in 2005, while attending grand rounds at Tufts Medical Center. He heard a speaker from GlaxoSmithKline advocate universal prenatal herpes screening. He knew that screening the 4 million U.S. women who are pregnant every year for the herpes virus would result in about a million prescriptions for the drug company's antiviral medication, Valtrex. He also knew that while there is no proven benefit of universal prenatal screening, there is evidence the practice can increase the likelihood of Caesarian deliveries.

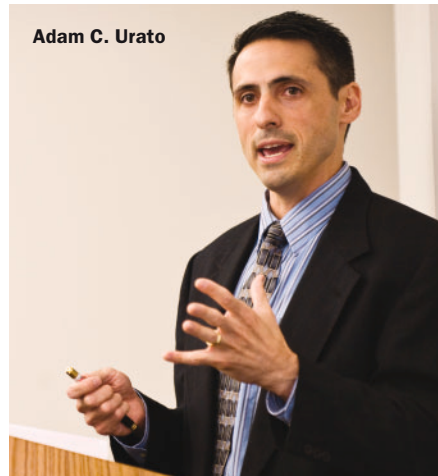
"No expert panel recommends herpes testing during pregnancy, but we have this oddball scenario where physicians in the United States are more likely to learn the wrong protocol because these continuing education activities are sponsored by [pharmaceutical companies]," Urato said.

Now Urato is worried about drug companies' influence on the debate surrounding antidepressant use during pregnancy. In 2006, the *Journal of the American Medical Association* published a study that found that women who discontinue antidepressant medications during pregnancy have a high risk of relapsing into depression.

But, noted Urato, the article failed to address the well-known problem of

withdrawal from antidepressants, nor did it mention pregnancy outcomes of women who took medications during gestation. The authors also didn't disclose their close ties to the pharmaceutical companies that make antidepressant drugs, claiming their study did not advocate any particular class or brand of antidepressant, and therefore was conflict-free.

Adam C. Urato



"Who buys that argument? Not the editor of the *New York Times*, who called it 'preposterous,'" Urato said. While 94 percent of physicians have relationships with drug and device makers, 85 percent of the public finds these arrangements unacceptable.

Doctors ignore the public's skepticism at their peril, Urato said. "Medicine is losing the public's trust for the same reason we don't trust Ronald McDonald when he tells us where to buy a hamburger," he said. "We simply can't be both paid spokesmen and unbiased authorities."

"Medical research enjoys a huge percentage of the federal budget for research," added Tufts Vice Provost Peggy Newell, a panelist at the May 13 symposium, which was sponsored by the University-wide Committee

on Ethics. "Once the public loses faith in research done in hospitals and universities, they will not be so eager to support it, so it's critical that all of us worry about conflicts of interest," said Newell, whose office manages Tufts researchers' collaborations with industry. Newell tells researchers that before they sign any agreements, imagine the disclosure of their financial ties splashed across the front page of the *New York Times*.

A QUESTION OF INTERPRETATION

Such disclosure of financial ties is "necessary but not sufficient to solve the problem of conflict of interest," argued panelist Jerome P. Kassirer, Distinguished Professor of Medicine at Tufts. Kassirer, the author of *On the Take: How Medicine's Complicity with Big Business Can Endanger Your Health*, is a well-known critic of conflicts of interest in medical research. "The individual listening to an expert or reading a study does not know how to interpret [disclosures]. The answer to conflict of interest is to get rid of it."

But Michael Rosenblatt, dean of the School of Medicine, cautioned against "applying a blunt instrument to something that should be done more thoughtfully and surgically." His own collaborations with industry resulted in the development of Fosamax, the first drug shown to reduce fractures in patients with osteoporosis. "I'm very proud of what I did with Fosamax. I feel like I've saved lives," Rosenblatt said, citing research that 20 percent of elders who suffer hip fractures die within two years. He added that many antibiotics, vaccines, gene therapies and drugs that cure cancers and manage AIDS "would not have been developed without the very real interface between academia and industry."

However, panel moderator Sheldon Krinsky, a professor of urban and environmental policy and planning in the School of Arts and Sciences, considers conflicts of interest a threat to the academy itself. "Universities are the rare place in our culture where people don't have to get permission to write or publish, and this privilege should be protected at any cost. It's important to protect the knowledge process," he said.



Louis Fiore, D62, at his home in Fort Myers, Fla.

A Devoted Son

Rachel's Amphitheater honors the woman who made a Tufts education possible by Deborah Blagg

LOUIS FIORE, D62, IS VERY CLEAR ABOUT THE INSPIRATION FOR HIS GIFT to fund a new 75-seat amphitheater at the School of Dental Medicine: "Tufts gave me the opportunity to become a dentist, and without Rachel Fiore, I never would have had the opportunity to attend Tufts."

Rachel's Amphitheater, named for Fiore's mother, will be located on the new 14th floor of the dental school, part of an expansion project that is adding five floors atop the building at One Kneeland Street. "My mother worked so hard her whole life so I could succeed in mine," Fiore says. "The gift recognizes how highly I value Tufts' role in my life."

Rachel Fiore's story mirrors that of many immigrants who came to the United States in the early 20th century in search of work and a better life. Born Rachel Valvo in the small town of Naro, Sicily, in 1900, she was only 16 when she left Italy to take a job at the Bigelow-Sanford Carpet Co. in Thompsonville, Conn. She married at age 20 and had five children, one of whom died as a toddler.

Louis was the youngest, and when he started elementary school, his mother returned to the carpet factory, working from two in the afternoon

until ten o'clock at night.

"In the morning, she got me out to school, did her baking and laundry, and prepared lunch so it was waiting when I came home at noon. She left dinner prepared for our family, and after her shift in the factory, she'd walk home and finish whatever needed to be done before retiring for the evening. This was her daily routine," Fiore recalls.

He says their relationship was built on love and respect. "When my mother was working," he notes, "she had to trust me to follow the rules. I was supposed to be in before dark, and when the streetlights came on, I always ran home."

Although his mother died when Fiore was just 16, he had already decided to become a dentist, a career Rachel supported. "When I received my Tufts diploma," he says, "my mother was the first person I thought of."

Fiore retired from practice in 1984 because of health issues. He and his wife, Jean, raised four children. "Of course, they never knew my mother," he notes, "but this gift to Tufts has brought up a lot of memories and will help them to understand how much she meant to me."

Scholarship Sisterhood

Inspired by professional and family ties to the dental school, two alumnae step up to help students by Deborah Blagg

ESTHER WILKINS, D49, DG66, HAS achieved much in her life by seizing opportunities and staying focused on the future. As the donor of a new scholarship to honor her late husband, James B. Gallagher Jr., A47, D49, DG68, she is helping future generations of bright Tufts dental students advance their own professional paths.

Wilkins was raised by a mother who expected both her daughters to attend college. Her sister became a teacher, but Esther decided to try nursing. “Not long after my graduation from Lowell High School, my mother drove me to Children’s Hospital for an interview,” she recalls. “She sat in the car and waited. That was in 1934, when just driving to Boston was quite an event.”

Wilkins was turned away from the nursing program because she was too young, but that drive into Boston was a first step in a remarkable career. After earning a B.S. at Simmons College, she trained as a dental hygienist at the Forsyth School in Boston. She worked as a hygienist in Manchester-by-the-Sea, Mass., for six years before deciding she wanted to do more in dentistry. She enrolled at Tufts Dental School, continuing to work part-time as a hygienist. She graduated as one of nine women in the Class of 1949. Following an internship at the Eastman Dental Dispensary in Rochester, N.Y., Wilkins was the founding director of the dental hygiene department at the University of Washington School of Dentistry in Seattle. While there, she wrote *Clinical Practice of the Dental Hygienist* (Lippincott Williams & Wilkins). Now in its tenth edition, the book is known as “the bible of dental hygiene.”

Returning to Tufts in 1964, Wilkins completed her postgraduate training in periodontology and has been a clinical professor at the school since 1966.

Although Wilkins and her future husband were in the same undergraduate

dental school class, they only became close in the mid-1960s, when both were pursuing postgraduate work at the school. “My husband was a shy, gentle man and a wonderful teacher,” she says of Gallagher, who was an associate professor at Tufts Dental School from 1962 to 1984. “He had a great sense of humor, and he cared deeply about his students,” Wilkins says. “When I meet his former students now, they always smile when I mention his name.”

The Dr. James B. Gallagher Jr. and Dr. Esther M. Wilkins Scholarship Fund will provide annual aid to a third-year student who demonstrates academic achievement. “It’s a memorial to my husband and his devotion to teaching, but it also reflects my own understanding of what it is to be a student with financial needs,” Wilkins says. “I worked very hard to get through my own education, and it feels right to make a gift that will lessen the financial burden on a deserving student who may be struggling to complete the program.”

Ann Sagalyn, D79, was a student of both Wilkins and Gallagher, but the two women have come to know each other better through alumni events. “Esther Wilkins is an excellent teacher of periodontal therapy,” says Sagalyn, “but of course she is best known as ‘the mother of modern dental hygiene.’” A general dentist with a practice in Avon, Conn., Sagalyn says she sometimes takes her hygienists to hear Wilkins lecture, and they are “always impressed that I know her.”

Sagalyn, who recently established the Drs. Ann M. Sagalyn and Suzanne Rothenberg Endowed Scholarship Fund, hails from a family of dentists. Her grandparents, Mizia and Zuccio Rothenberg, received their

training at Novo Russian Imperial University in Odessa, Russia, and practiced general dentistry in Boston after coming to the United States in 1921. Suzanne Rothenberg, D41, Sagalyn’s aunt, inspired her niece to value the “human side” of dentistry, especially “the importance of getting to know patients and treating them in the context of their broader lives,” Sagalyn says.

Sagalyn earned her undergraduate degree in zoology at the University of Wisconsin. After graduating from Tufts, she completed a two-year family practice residency at the University of Connecticut. “The dean’s aim was to train general dentists with specialty-level skills in periodontics, oral surgery, endodontics, restorative dentistry and prosthodontics,” she says. “Keeping up with all phases of dentistry, in my estimation, is what makes general dentistry the most difficult specialty.” Sagalyn opened her own practice in 1984.

She chose her specialty “because there is always a shortage of competent general dentists.” She hopes her scholarship, which will support outstanding fourth-year students,



Ann Sagalyn, D79, left, a former student of Esther Wilkins, D49, DG66, center, have gotten to know each other better at alumni events. The women, shown here with Amerian D. Sones, D79, met again in May for Reunion 2009, Wilkins’ 50th and Sagalyn’s 30th.

will raise the profile of general dentistry. “We need more young dentists in this field, and I hope some of this scholarship money will reach students—especially women—who have an interest in providing patients with quality care and continuity of care.

“This isn’t the most glamorous or highest-paid specialty,” Sagalyn adds, “but on a daily basis, the professional and personal rewards are great.”

Estate Gift Establishes Manning Library

A GENEROUS GIFT FROM A LIVING TRUST ESTABLISHED BY THE late Bruce W. Manning, DG69, will support postgraduate endodontics at Tufts Dental School. Manning, who died in 2004, practiced endodontics in California for more than two decades and was a part-time clinical instructor at the Arthur A. Dugoni School of Dentistry at the University of the Pacific.

Manning's gift will support the Manning Library, part of the new postgraduate endodontics space at the school, which is undergoing a five-floor expansion. When the expansion project is completed this fall, each postgraduate department will have a similar conference room/library with state-of-the-art technology for seminars and teleconferencing.

After growing up in Gardner, Mass., where his father was an ophthalmologist, Manning attended Bates College and earned his dental degree from the University of Pennsylvania. He completed his internship in the U.S. Army Dental Corps in Germany, rising to the rank of captain. Manning became interested in endodontics while working in Worcester, Mass., with Melvin Goldman, who was instrumental in establishing Tufts' endodontics program.

When he finished his postgraduate study at Tufts in 1969, Manning

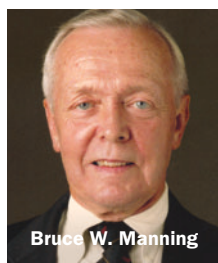
began a long career with Burns, Moore and Manning Endodontics in San Mateo, Calif. The practice served a number of celebrity patients, including Bing Crosby, with whom Bruce Manning shared a passion for golf, his brother, Paul Manning, says. "After Bruce helped him through a dental emergency the night before a television appearance, Bing invited him to play at his tournament at Pebble Beach every year," Paul Manning says.

After he retired in 1992, Manning taught part-time at the Dugoni School of Dentistry, where he is remembered still as a committed teacher who demanded the best from his students.

In his later years, Manning divided his time between Florida and California, and for a time also owned a home in Scotland, near the Royal Dornoch Golf Club, the second oldest golf course in the world. An avid sportsman, Manning also enjoyed duck hunting and was a member of the Olympic Club in San Francisco and the Shivas Irons Society, a network of golf enthusiasts in a dozen countries.

Manning also placed a high value on education. In addition to Tufts, he included Bates College, the University of Pennsylvania and the University of the Pacific as beneficiaries of his estate.

—DEBORAH BLAGG



Bruce W. Manning

THE TUFTS DENTAL FUND

JULY 1, 2009–JUNE 30, 2010 At the start of a new fiscal year, we are reminded again of the extraordinary impact annual fund dollars have on our students. Over the coming months, the school's communications with alumni, parents and friends will offer day-in-the-life stories of current students as they pursue classroom studies, clinical work and community outreach projects. Watch for these snapshots of what it is like to be a dental student today and prepare to be inspired by the opportunities your generous Tufts Dental Fund gift can create.

The Life of a Tufts Dental Student... Thanks to Your Annual Gift!



9:00 a.m.

Basic Human Pathology
in Merritt Auditorium



1:00 p.m.

Patient Clinic



4:00 p.m.

Pre-doctoral
Prosthodontic Lab

THE TUFTS DENTAL FUND
136 HARRISON AVENUE, BOSTON
MASSACHUSETTS 02111-1800
TEL: 617-636-3434
FAX: 617-636-4052
EMAIL: dental-giving@tufts.edu
dental.tufts.edu

Tufts | School of
UNIVERSITY | Dental Medicine

Exciting Times at Your Dental School



IT IS A GREAT PLEASURE AND HONOR FOR ME TO SERVE as president of the Tufts University Dental Alumni Association for 2009–10. I want to thank all the association's past officers and boards of directors who have provided committed and enthusiastic leadership.

You are a member of an elite organization by virtue of having earned your degree from one of the best dental schools in the country. Alumni participation is the lifeblood of our organization. So if it's been a while, I invite you to come visit your dental school. We are adding five new floors to the dental building at One Kneeland Street, an expansion that will provide plenty of space for the continued growth of Tufts University School of Dental Medicine's reputation.

The expansion will include additional undergraduate clinic space, relocated and improved postgraduate clinics and expanded facilities for continuing education—all components of a state-of-the-art dental school.

Tufts Dental would not enjoy the reputation that it does without the leadership of Dean Lonnie H. Norris, who has a great vision for our school. Through his stewardship, our school is able to recruit top-notch faculty members who provide our students with an outstanding education.

Our undergraduate students continue to be admitted with high GPAs and DAT scores, and Tufts continues to be the preferred choice for a dental education, as evidenced by the record number of applicants for admission.

Our alumni association is a vital part of the level of excellence our school

has achieved. I encourage all of you to participate in alumni events, including the Wide Open Golf and Tennis Tournament, which will take place on Wednesday, September 23, at the Pinehills Golf Club in Plymouth, Mass., as well as the alumni reception at Yankee Dental Congress in January 2010, Homecoming and Reunion on April 30–May 2, 2010, and regional alumni receptions held in conjunction with professional meetings throughout the year.

Thank you for being a member of the alumni association and for encouraging your friends and colleagues to join us. I am looking forward to another exciting and successful year.

With warm regards,

TOFIGH RAAYAI, DG77, D182
PRESIDENT, TUFTS UNIVERSITY
DENTAL ALUMNI ASSOCIATION

COMING SOON!

Tufts Dental Career Link

dental.tufts.edu/careerlink

Exclusive access for Tufts Dental alumni and students to:

- Post and search for job openings and practices for sale
- Professional networking
- Assistance with resumes and cover letters

Email notifications will be sent when the Tufts Dental Career Link goes live. To ensure that you receive the message, please send an email with your name and class year to: dental-alumni@tufts.edu.

Virginia Shahinian, D77, DG79, D12P; Sheina Jean-Marie, A05, D12; Arlene Pimentel, D12; Sonia Arevalo Vasquez, D12; and Elizabeth Brachowicz, D12



Front and Center at Yankee

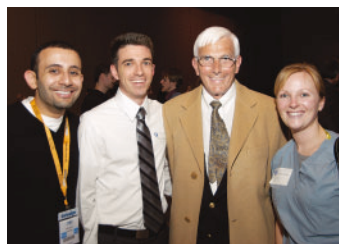
DEAN LONNIE H. NORRIS, DG80, M99P, A01P, AND JOHN FICARELLI, D73, D10P, PRESIDENT of the Tufts University Dental Alumni Association, welcomed more than 800 alumni, family and friends to the Westin Boston Waterfront on January 30 for a reception held in conjunction with the Yankee Dental Congress 34, the largest annual dental meeting in New England.

Tufts was well represented at the meeting, with alumni and faculty serving in leadership roles as well as giving presentations during the lectures and workshops. Kevin Toomey, D80, was general chair of the assembly. Core committee leaders included Robert Amato, D80, DG83, exhibits; Anthony Giamberardino, D85, registration; Matthew Fantasia, D00, signs; Emina Zaganjori, D00, specialty relations; Debbie Eisen, associate clinical professor, and Janis Moriarty, D94, program committee; Laura Glicksman, D98, DG00, and Mary Jane Hanlon-Rogers, D97, women's conference; Mark Mizner, D80, special events; and Gennaro Cataldo, D67, general arrangements.

The second annual Gay & Lesbian Alumni and Friends reception, which drew 100 guests, also was held on January 30 at the Westin Boston Waterfront.

Also at Yankee Dental, Vangel R. Zissi, D62, DG66, clinical professor of endodontics and director of continuing education, received the International College of Dentists (ICD) 10th annual Distinguished Fellow Award. Katherine Pelullo, who works with the dental school's Special Needs Community Dental Program, was named Hygienist of the Year.

The 35th Yankee Dental Congress will take place at the Boston Convention & Exhibition Center from January 27–31, 2010. Don't forget to stop by the Tufts Alumni Lounge to relax and grab a snack.



TOP: Mike Nessim, D109; Michael Butera, D10; Paul Marino, A55, associate clinical professor of oral and maxillofacial surgery; and Danielle Hinton, D10; **BOTTOM:** Finnbogi Esrason, D96; Paul Schoenbeck, D94; and Janis Moriarty, D94

New Director

The Dental Alumni Association has elected Raina Trilokekar, DG88, DI91, as its newest

director on the executive board.

Born and raised in India, Trilokekar received her primary and



Raina Trilokekar secondary

education at Nair Hospital Dental College in Bombay. In 1988, she earned a postgraduate certificate in endodontics and went on to complete the international D.M.D. program in 1990.

Trilokekar is an assistant clinical professor at Tufts and has been a staff endodontist at Tufts Medical Center, the Harvard School of Dental Medicine and M.I.T. She was chair of the Middlesex District Dental Society in 1996 and is a former president of the Women's Dental Society of Massachusetts and former trustee and secretary of the American Association of Women Dentists. She is currently president of the Massachusetts Association of Endodontists and the American Academy of Dental Science.

In 1990 Trilokekar received the International College of Dentists' Outstanding Achievement Award, and in 1994 was awarded diplomate status by the American Board of Endodontics.

She has worked at Limited to Endodontics since 1990 and resides in Winchester, Mass., with husband Joe and daughter Megan.

out & about



TOP RIGHT: Dean Lonnie H. Norris, DG80, M99P, A01P; Donna Norris, M99P, A01P; Sheila Brennan, A84P, M88P, D96P, A98P, M02P; and Bill Brennan, D59, A84P, M88P, D96P, A98P, M02P. **TOP LEFT:** Jamie Kane, D04, DG06; Lauren Kane; Wally the Green Monster; Delia Kane; Krista Kane, D04; and Jess Kane, D74, DG76, G78, DG79, D04P, DG06P

RNW@OOD@K

One hundred Tufts Dental alumni, family and friends watched the Boston Red Sox take on the Tampa Bay Rays during a spring training game on March 8 in Fort Myers, Fla. Attendees enjoyed a picnic cookout prior to cheering the Sox on to an 8–2 win.

@ZHIQRSZHMZMB

Alumni and friends gathered for hors d'oeuvres and cocktails at The Modern, located in the Museum of Modern Art in New York City, on February 26 for the first-ever networking event hosted by the Greater New York Dental Alumni Chapter and sponsored by Keystone Dental. The chapter held its spring meeting, attended by 40 alumni and friends, at the Penn Club on April 7. Burney Croll, DG73, presented a lecture titled "Gingival Ceramics: It's Much More Than Pink Porcelain."

Alumni are invited to a reception and dinner at the Marriott Marquis on December 1, an event scheduled in conjunction with the Greater New York Dental Meeting. For information, call 617.636.6773.



Amy Dukoff-Toro, E78, D81, and Robert Berg, D03, at the first networking session sponsored by the Greater New York Chapter



ABOVE: Rebecca Groves, D09; Douglas Laliberte, D09; Elizabeth Turner, D11; Melissa Bradbury, associate director of admissions; Scott Friedman and Peter Vayanos, D09; **TOP LEFT:** Mark Gonthier, associate dean of admissions and student affairs; Doug Delli Colli, D09; Meghann Dombroski, president of the Class of D10; and Aaron Dombroski; **TOP RIGHT:** Lisa Howard, Ann Donaldson, a dental school overseer, Kate Armstrong and Daniel Armstrong, D75



L @HMDZ@SSQ@BSHNM

Dental school overseer Ann Donaldson graciously welcomed Maine alumni, students and prospective students to her home, Cool Waters Farm, in Union, Maine, on June 20. Taking advantage of the Maine Dental Association meeting in nearby Rockport the same weekend, more than 40 Tufts Dental alumni and friends attended the reception. Dean Lonnie H. Norris, DG80, extended a special welcome to the school's newest alumni from the Class of 2009 and three incoming students in the Class of 2013. He took the opportunity to update the gathering on the expansion project that is adding five floors to the dental school building. Mark Gonthier, associate dean of admissions and student affairs, discussed the dental school's commitment to address access to care in Maine and introduced faculty member Cynthia Yered, D90, associate clinical professor of public health and community service, who had been visiting externship sites throughout Maine the week prior to the reception.

SEPTEMBER 11

Alumni reception in conjunction with the fall meeting of the California Dental Association
San Francisco, California

SEPTEMBER 11

Alumni reception in conjunction with the annual session of the American Academy of Periodontology; RSVP to 617.636.6773.
Boston, Massachusetts
7:30 p.m.

SEPTEMBER 23

Dental Alumni Association's 27th annual Wide Open Golf and Tennis Tournament
Pinehills Golf Club
Plymouth, Massachusetts
11 a.m. shotgun start; tennis tournament, 2 p.m.; reception, 4 p.m.; dinner, 5 p.m.

OCTOBER 15

Alumni reception in conjunction with the annual session of the American Association of Oral and Maxillofacial Surgeons
Fairmount Royal York
Toronto, Canada
6-8 p.m.

NOVEMBER 5

Alumni reception in conjunction with the annual session of the American College of Prosthodontists
San Diego, California

NOVEMBER 13

Alumni reception in conjunction with the annual meeting of the Northeastern Society of Orthodontists
New York City



High above the Boston skyline, alumni tour the construction project that is adding five floors to the dental school building at One Kneeland Street. The tour was led by Steven Nguyen, D11, far left, and Brian Cook, D11, far right.

DECEMBER 1

Alumni reception and dinner in conjunction with the annual meeting of the Greater New York Dental Meeting
Marriott Marquis
New York City

JANUARY 29, 2010

Alumni reception in conjunction with Yankee Dental Congress 35
Boston, Massachusetts

MARCH 3-6, 2010

Alumni reception in conjunction with the annual session of the International Association of Dental Research
Washington, D.C.

MARCH 9, 2010

Student/Alumni Networking Session, sponsored by the Dental Alumni Association for second-, third- and fourth-year students. Alumni volunteers are needed to share their expertise. Email dental-alumni@tufts.edu for more information.
Tufts School of Dental Medicine
Boston, Massachusetts
5:30-7:30 p.m.

MARCH 2010

Spring training with the Boston Red Sox
Fort Myers, Florida

APRIL 14-17, 2010

Alumni reception in conjunction with the annual session of the American Association of Endodontists
San Diego, California



APRIL 30-MAY 2, 2010

Dental Homecoming and Reunion Weekend
Tufts School of Dental Medicine
and Langham Hotel
Boston, Massachusetts

APRIL 30- MAY 4, 2010

Alumni reception in conjunction with the annual session of the American Association of Orthodontists
Washington, D.C.

MAY 13-16, 2010

Alumni reception in conjunction with the spring meeting of the California Dental Association
Anaheim, California

MAY 23, 2010

Tufts University's 154th Commencement
Academic Quad
Medford/Somerville campus
9 a.m.

MAY 27-31, 2010

Alumni reception in conjunction with the annual session of the American Association of Pediatric Dentistry
Chicago, Illinois

For more information on these and other events, contact the Office of Dental Alumni Relations at 617.636.6773 or email dental-alumni@tufts.edu.

Home Again

Alumni renew their connections to Tufts Dental

MORE THAN 650 ALUMNI AND THEIR GUESTS RETURNED TO Tufts for the 2009 Homecoming and Reunion, held May 1–3. The weekend kicked off with a Welcome Back Party on Friday evening at the UMass Club, featuring a performance by the Tufts undergraduate a cappella group the Beelzebubs.

Continuing education lectures were given by Jeffrey Prinsell, D79, on “The Role of the Dentist in Snoring and Sleep Apnea” and Jonathan A. Garlick, head of the dental school’s Division of Cancer Biology and Tissue Engineering, on “Stem Cells and the Future of Dentistry.” A tour of Fenway Park and cooking classes were also offered Saturday morning.

The Langham Hotel was the venue for the rest of the weekend’s activities, including the Tufts University Dental Alumni Association’s annual meeting and luncheon. Sixtieth reunioners Esther Wilkins, D49, and Hilde Tillman, D49, DG66, were recognized for their lifetimes of achievement and groundbreaking work as women pioneers in dentistry. Their awards were presented by Meghann Dombroski, D10, and Inga Keithly, D12, presidents of their dental school classes.



Norman Shepherd, D64, DG67, Ira Cheifetz, D74, and Shannon Balletto, the school’s infection control administrator, were honored by the Dental Alumni Association for their dedication to the school and the dental profession. (See story, page 53.) Tufts President Lawrence S. Bacow gave the keynote address.

On Saturday night, leadership donors and volunteers enjoyed a cocktail reception followed by the all-alumni reception and individual class dinners. The night ended with “Tufts After Dark,” featuring music from all decades, dancing and the Langham’s chocolate bar. Also that evening, the Tufts Association of Orthodontists hosted a dinner for alumni and guests across the street in conjunction with the annual meeting of the American

Association of Orthodontists. The weekend ended with brunch on Sunday morning.

Reunion fund-raising plays a vital role in supporting Tufts School of Dental Medicine. Reunioners contributed more than \$220,000 to the Tufts Dental Fund this year. The cumulative total of annual fund and capital gifts made since this group of classes held its last reunion in 2004 totals \$894,057.

The Class of D79, which celebrated its 30th reunion, swept the reunion awards with the highest achievement in all categories: reunion gifts, participation in the Tufts Dental Fund and overall giving to the school since 2004. The Class of 2004 also demonstrated outstanding school spirit. Forty-eight classmates attended their class dinner and shattered the existing fifth reunion record for class giving set nine years ago.

Homecoming and Reunion 2010 will take place April 30 through May 2.

—SUSAN AHEARN



TOP: Steven Dugoni, D79, A08P, A12P; Gary Archambault, D79, A10P; and Joan Archambault, A10P; BOTTOM: Sixtieth reunioners, from left, Arnold Vetstein, Hilde Tillman, Esther Wilkins and George Picard chat with Tufts President Lawrence S. Bacow following the alumni luncheon.



The Beelzebubs, Tufts' all-male a cappella group, serenade Zineb Mediouni, D04, DG10



Paul Tan, D89; Debbie Kostas; Jim Kostas, A85, D89; Lisa Vouras, D89; Ellie Vazquez and Jorge Vazquez, D89



Jaubin Nguyen, D99; Lucia Yau, D99; Jung Woo, D99; Dean Lonnie H. Norris, DG80, M99P, A01P; Jay Nagamatsu, D99; Thu-Trinh Nguyen, D99, DG01; and Catherine Carrière



Presenting their class gift, Joe Giordano, D79, DG84; Steven Dugoni, D79, A08P, A12P; David Solomon, D79, D10P; Amerian Sones, D79; Robert Marshall, D79; Dean Lonnie H. Norris, DG80; Mark Klepacki, D79; Richard McNulty, D79; Donald LeClair, D79; John Ficarelli, D73, D10P, president of the Dental Alumni Association; and Michael Casey, D79

Laurence Vienneau, D54; Irene Dobrovolsky, D54, V93P;
 Mary Vienneau; Joseph DiPietro, D54, D81P, A86P, D87P;
 Regina DiPietro, D81P, A86P, D87P; and Richard DesLauriers, D54



Dental school class presidents Meghann Dombroski, D10, left and Inga Keithly, D12, far right, present lifetime achievement awards to Hilde Tillman, D49, second from left, and Esther Wilkins, D49, DG66.



Leyla Rouhfar, D04; Archana Mani, D04;
 and Farnoosh Lak, D04



Erica Lowe
 Bennett, D04;
 Herb Bennett,
 D04; Derek
 Busciglio, D04,
 DG07; and
 Katie Mullis



Esther Wilkins, D49, DG66; Kathy O'Loughlin,
 D81, the new executive director of the American
 Dental Association and a Tufts trustee; and
 Andrea Richman, D78, a former president of the
 Massachusetts Dental Society.

A CALL FOR NOMINATIONS

**TUFTS UNIVERSITY DENTAL ALUMNI ASSOCIATION
ANNUAL ACHIEVEMENT AWARDS**

Each spring, during the annual luncheon of the Tufts University Dental Alumni Association, alumni are recognized for their service to Tufts University, the School of Dental Medicine and the profession. To nominate an alumna/us for the achievement award, complete this form and attach additional pages if necessary.

Please mail this form and any additional information to:

Susan Ahearn,
Associate Director of Alumni Relations
Tufts University School of Dental Medicine
Office of Development & Alumni Relations
136 Harrison Avenue, Boston MA 02111

Questions? Please contact **Susan Ahearn** at **617.636.6772** or **susan.ahearn@tufts.edu**.

Or, you can make your nomination online by going to: **dental.tufts.edu/nomination**.

Only the information you provide will be considered for your nominee. The Dental Alumni Office will not request CVs or additional information for your candidate. Nominations will be kept on file for five years.

NOMINATION FORM FOR ALUMNI ACHIEVEMENT AWARDS

NAME		GRADUATING CLASS	
CURRENT PROFESSIONAL ACTIVITY OF NOMINEE			
PRIVATE PRACTICE: GENERAL		SPECIALTY	
ACADEMIA <small>(Name of school & position/title)</small>		RESEARCH/BUSINESS	
PUBLIC HEALTH		MILITARY <small>(Name of specialty)</small>	
EDUCATIONAL BACKGROUND <small>(Name & location of school)</small>		<small>(Degree/certificate)</small> <small>(Major or specialty)</small>	
DENTAL			
GRADUATE			
RESIDENCY <small>(If applicable)</small>			
PAST PROFESSIONAL ACTIVITY <small>(List previous practice, teaching or research activities and dates)</small>			
COMMUNITY SERVICE			
INVOLVEMENT IN ORGANIZED DENTISTRY <small>(Membership and leadership positions at local, state and national level)</small>			
SERVICE TO TUFTS SCHOOL OF DENTAL MEDICINE			
HONORS & AWARDS <small>(State, national, specialty)</small>			
ACHIEVEMENTS DESERVING SPECIAL RECOGNITION			
DESCRIBE WHY THIS CANDIDATE SHOULD BE HONORED WITH AN ALUMNA/US ACHIEVEMENT AWARD			
NOMINATOR'S NAME <small>(Please print)</small>		TELEPHONE	

You also have the option of submitting your nomination online at dental.tufts.edu/nomination.

Please detach along perforation



TOP LEFT: President Lawrence S. Bacow, Dean Lonnie H. Norris, DG80, Shannon Balletto, infection control administrator, and John Ficarelli, D73, D10P. TOP RIGHT: President Bacow, Dean Norris, Ficarelli and Norman J. Shepherd D64, DG67. AT LEFT: President Bacow, Dean Norris, Ira D. Cheifetz, D74, and Ficarelli.

Three Who Are Making a Difference

THE TUFTS DENTAL ALUMNI ASSOCIATION honored three individuals, Norman Shepherd, D64, DG67, Ira Cheifetz, D74, and Shannon Balletto, the school's infection control administrator, during its annual meeting at the Langham Hotel on May 2. John Ficarelli, D73, D10P, president of the alumni association, presented the awards.

Shepherd was honored for his 45 years of service to the school and the community. He is a founding member of the Tufts Dental Implant Center, a former faculty member, reunion co-chair and a leadership donor.

"I had always taken my Tufts education pretty much for granted as it gave me license to practice in my field," Shepherd said. "It

wasn't until I started to travel and lecture in more than 20 countries on five continents that I truly understood the far-reaching influence of Tufts. It was only then that I recognized that Tufts' status was not just local, or national, but truly global." Marjan Askari, D09, the top student in the fourth-year class, received a cash award, given in Shepherd's name, during commencement on May 17.

The president-elect of the American Association of Oral and Maxillofacial Surgeons, Cheifetz has shown his dedication to Tufts Dental School for 35 years as reunion co-chair and a member of the Dean's Inner Circle since its inception.

"The education and training I received at Tufts are gifts that I cherish, and ones that I

strive to share with dental students and OMS residents who have traveled in my footsteps," Cheifetz said. "The mentors I found at Tufts ... instilled in me the concept of giving back to the profession and the community. Their example helped form my values and colored my actions in my personal and professional life. This concept of 'giving back' is a way of life, one that benefits the recipient and giver," he said. Rebekah Lucier, D10, the second-year student with the highest academic achievement in the basic sciences, received a cash award from the Dental Alumni Association in Cheifetz's name.

Balletto, an employee of the dental school for 27 years, has been integral to the success of the infection control program.



D59

FRONT ROW: Robert Losert, William Brennan, Barry Puchkoff, James McNerney, Lawrence Nannery

BACK ROW: Laurence Bedell, Charles Veith, Gary Moskowitz, Melvin Miller

FRONT ROW: Ron Gwozdz, Joseph Zgrodnik, Benson Monastersky, Frank Coppola, Norman Shepherd

BACK ROW: Fred Randall, Vincent Failla, Clark Sammartino, Carl Perlmutter, Ronald Maitland, Rawley Hansen



D64



D69

John Mitsch, Ed D'Eramo, Ed Kampf, Donald Forbes, Stan Morris



FRONT ROW: Stuart Rosenthal, Ira Cheifetz, Deb Sistare, Peter Katz, David Fletcher, Nicholas Senzamici, Jess Kane

MIDDLE ROW: Alan Wasserman, Harvey Rosa, Stan Gersch, Jay Mandell, Michael Stone, Stan Moody, Tom Thibault

BACK ROW: Richard Steinberg, Howard Herman, Michael Hoffman, Michael Gusar, Steven Baratz, Kevin Trombly, Thomas Cleary



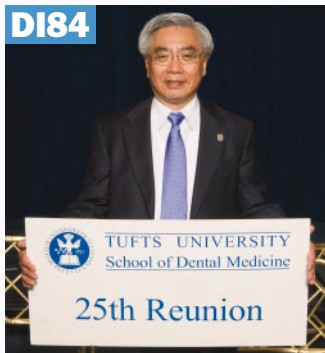
FRONT ROW: David Fang, Neil Engel, Howard Cooper, Ann Sagalyn, Amerian Sones, William Donlon, Sally Waters, Kent Hill

SECOND ROW: Charles Kanozak, Lewis Milhim, Christi Peterson, Donald LeClair, Ian Barwick, Joe Giordano, Denise Yablonski-Goodman, Steven Dugoni, Jeff Finegold, Tom Green, Jeffrey Prinsell, Anthony Bonura, David Solomon, Paul Cammarata

THIRD ROW: Clark Martin, Mark Klepacki, Larry Dario, Richard McNulty, Marty Polin, Mark George, Mike Casey, Gary Peterson, T.J. Megas, Steven Goldy, Rodger Lawton, Gary Archambault

BACK ROW: Ignacio Iturralde, Steve Hart, Robert CurlI, John Keating, Tom McGillicuddy, Regis Andrews, Eugene Lawnicki, Robert Marshall

John Hsu was one of 16 students to graduate from the International Student program in 1984; during that time, the school was transitioning from a three-year to a four-year program.



FRONT ROW: David Ward, Lisa Vouras, Julie Nordman, Terry Chin, Rob Lincoln, George Mantikas
BACK ROW: Mike Arena, S. Richard Bascetta, George Vazquez, Paul Tan, James Kostas, Bruce Podhouser, David Paul



FRONT ROW: Anita Omidi, Debbie Lee, Michelle Smith-Goncalves, Keri Logan, Zina Alathari, Laurie Rosato, Janis Moriarty, Erin Wolin
MIDDLE ROW: Joseph D'Ambrosio, Jay Kabinoff, Maurice Convey, Henry Schwartz, Keyvan Abbaszadeh, Cherie Bishop, Gigi Garcia-Rogers, Nadia Diab, Karin Andrenyi Arsenault, Y. Lisa Hong
BACK ROW: Kevin Boulard, Franklyn Liberatore, Paul Schoenbeck, Rich Rosato, Walid Dehni, Peter Arsenault



FRONT ROW: Beth Kailes, Lucia Yau, Nan Park, Trina Nguyen, Li-An Su, Yean Wu-Young

BACK ROW: Nelson Huang, Sandeep Pathak, Jungkwon Woo, Mehdi Rahmatpour, Jaubin Nguyen, Euger Lin, Robert Memory



FRONT ROW: Raymond Tsou, Kelley McClure, Vanessa Newton, Edwin Brookes, Zahra Nadji, Ericka Lowe Bennett, Catherine Pagano, Mirlina Hilaire

SECOND ROW: Kavitha Rajavelu, Romey Sabnani, Justin Shaghalian, Jamie Kane, Herb Bennett, Dana Busciglio, Derek Busciglio, Chris Pellegrino, Leyla Rouhfar, Farnoosh Lak, Megha Hedge-Bhat, Irays Santamaria Dehni

THIRD ROW: Sherry Chu Hanson, Laura Sabnani, Atosa Sarrafi, Roula Giannos, Maria Chartzoulakis, Krista Kane, Eka Mamulashvili, Vagrik Zadorian, Raffi Barsam, Zaina Al-Awadi, Archana Mani, Joseph Nelson II, Hyeokjin Son

BACK ROW: Narayana Bhat, Michael Proothi, Maral Regas, Asad Usmani, Gregory Kosmidis, Dimitris Zourdos, Kris Togias, Boyd Martin

D54 Harris F. Holstein, M84P, sold his practice more than 10 years ago, and still resides in the house in Wellesley, Mass., that he and his wife purchased in 1956. The couple spends four months during the winter at their condo in Delray, Fla. Their three children are doing well, and they have six grandchildren, four boys and two girls. Holstein and his wife are looking forward to celebrating their 55th anniversary; they were married the weekend after his final exams of his senior year in dental school.

REUNION 2010,
APRIL 30–MAY 2

D55 Arthur C. Sandler, A80P, J82P, lives in Florida and does volunteer work in diagnostics, treatment planning and prosthetics at the Senior Friendship Center in Sarasota. He was an assistant clinical professor at Tufts Dental School for 25 years, working with A. Albert Yurkstas, D49, DG46, J74P, J81P. He practiced in Massachusetts for five decades and in Florida for 18 years. During his long career, Sandler served in a number of leadership posts in organized dentistry, including district president of the Academy of General Dentistry, president of the Massachusetts chapter of the American College of Dentists, president and treasurer of Yankee Dental Congress and president of the North Metropolitan District Dental Society. He is also a member of the International College of Dentists and of the Tufts Dental M Club. He co-chaired his 45th, 50th and 55th reunions.

D62 Vangel R. Zissi, DG67, A02P, clinical professor of endodontics and director of continuing

education at Tufts Dental School, received the 10th annual Distinguished Fellow Award from the International College of Dentists (ICD) during Yankee Dental Congress 34 in Boston in January. Zissi became a fellow of the ICD in 1971, and in 2005 was president of its USA Section. He currently holds the positions of deputy registrar of the USA Section and deputy secretary general and councilman of the College at Large. In 1990, he

received ICD's Spark Plug Award for "unselfish and dedicated service to the USA Section." Zissi also serves as alumni editor of this magazine.

D67 James R. Fay, A63, teaches restorative dentistry and dental anatomy at the University of Texas Health Science Center at San Antonio. Wouldn't Carl Stanton be having a laugh, he writes.

WOMAN OF THE YEAR

The American Association of Women Dentists (AAWD) has presented Barbara C. Kay, D71, D10P, with its highest honor, the Lucy Hobbs Taylor/Woman Dentist of the Year Award, which recognizes women who promote a positive image for



Barbara C. Kay

women in dentistry and help advance AAWD's mission to be the resource for connecting and enriching the lives of women dentists.

She received the award, named for the first woman dentist in the United States, on June 12, during AAWD's annual meeting in Hilton Head, S.C.

Kay joined the organization in 1972 and served as its president in 1980.

She was instrumental in establishing the Colgate Research Awards, which provide funds to junior and senior dental students who are academically distinguished and have demonstrated excellence in research.

A former president of the Tufts Dental Alumni Association, Kay has served as chair of the North Shore District Dental Society of Massachusetts. She has held a number of leadership roles with Yankee Dental Congress, which presented her with its Volunteer of the Year Award in 2000. She has also been chair of the New England section of the American College of Dentists and is currently its editor.

Kay recently retired from practice after 35 years, but continues to volunteer two days a week in the operative and emergency divisions at Tufts University School of Dental Medicine and is a director of the Eastern Dentists Insurance Co.

D69 Gregory King, professor and chair of the department of orthodontics at the University of Washington in Seattle, is the recipient of the 2009 Craniofacial Biology Research Award, presented by the International Association for Dental Research.

Richard Kulbersh, E65, will receive the 2010 Dale B. Wade Award of Excellence in Orthodontics, given by the American Board of Orthodontics (ABO) to honor a senior clinician and diplomate who demonstrates exceptional dedication to orthodontics through clinical excellence and/or devoted teaching. The award is named for the former ABO president who also chaired the orthodontics department at Ohio State University. Kulbersh chairs the department of orthodontics at the University of Detroit Mercy School of Dentistry.

Dennis J. Tartakow, D96P, is a full-time student at Union Institute & University in Cincinnati, Ohio, where he is pursuing his Ph.D. in higher education. He is a diplomate of the American Board of Special Care Dentistry and editor-in-chief of the U.S. edition of the *Ortho Tribune*. He also serves on the Research Library Council for the J. Paul Getty Research Institute and Library in Los Angeles, Calif., and is a test constructor for orthodontics and pediatric dentistry for the National Board of Dental Examiners Joint Commission on National Dental Examinations for the American Dental Association in Chicago.

D73 Peter Delli Colli, A69, who practices general dentistry in Natick, Mass., received the 2009 Deborah Blumer Community Health Leader Award in

recognition of his leadership in promoting the health of the Natick community. The award is presented by the MetroWest Community Health Foundation, an independent philanthropic organization dedicated to serving the health needs of residents living in Boston's western suburbs. The Massachusetts Dental Society nominated him for the award. Delli Colli works with the Natick Service Council's Supporting Smiles Program, which provides access to dental care for low-income Natick residents. Supporting Smiles, now in its second year, encourages all Natick dentists to become MassHealth providers. In addition, dentists agree to charge reduced fees for services through a cost-sharing program for patients who don't qualify for MassHealth or who lack private dental insurance. Delli Colli personally called his fellow dentists in Natick to ask them to join the program. "With this economy, many adults are without dental care," says Delli Colli. "For the coming year, we are trying to increase dental access for all Natick residents." He notes the program now has a dozen dentists providing care for more than 75 patients.

Robert J. Harris, who has practiced in Halworth, N.J., for 33 years, was inducted as a fellow of the International Academy for Dental Facial Esthetics in recognition of his work in dental cosmetics. Harris completed a general practice residency at Mount Sinai Hospital in New York City.

Robert N. Harellick, E69, A05P, D10P, and his wife Leslea are very excited to announce the engagement of their son, **Scott, A05, D10**, to **Natalie Tchere, D10**. For the couple, it was love at first sight during orientation for their first year of dental school.

REUNION 2010,
APRIL 30–MAY 2

D75 Robert L. Chacona has published a new book, *Longevity Logic: Empowered Health Defense*, about the challenges of maintaining a healthy lifestyle. For more information, go to www.longevitylogic.com.

D77 Franson K.S. Tom received the University of Nevada–Las Vegas School of Dental Medicine Mentor of the Year award in 2008 from the Southern Nevada

Dental Society. Tom is a director of the dental society's Health & Wellness Committee.

D78 Charlene S. Berkman has been elected the first woman president in the 102-year history of the Alpha Omega International dental fraternity, which has more than 6,000 members around the world. She has served as a delegate for more than 20 international fraternity gatherings, spent three years as an international trustee and is president of the fraternity's Queensboro chapter. The fraternity works to create bridges through healthy smiles, including its "Bridges to Peace" initiative, which hopes to bring together two Israeli dental schools with a Palestinian counterpart. "It's about the need to give back, the need to be part of an organization bigger than yourself," says Berkman, who practices general dentistry in Forest Hills, N.Y., and looks forward to visiting Guatemala, Vietnam and Palestine in the future.

D81 Sari R. Rosenwein and **Andrew P. Warshaw, D82**, opened a new

office in 2005, Park Slope Family Dentistry, in Brooklyn, N.Y. Their son, Seth Warshaw, is a graduate of Cornell University's School of Industrial and Labor Relations, and their daughter, Sydney Warshaw, is an animal science major at Pennsylvania State University.

D82 Linda M. Ribarich-Boehm is a fellow of the American Dental Society of Anesthesiology and an associate fellow of the American Academy of Implant Dentistry. Her oldest son, Austin Boehm, will be a member of the Class of 2013 at Tufts School of Dental Medicine; son Tristan will be a freshman at Marist College, and daughter Audra is entering her junior year in high school.

Andrew Warshaw, see D81.

D83 Mark Buttarazzi has been elected president and chair of the board of Community Dental, one of Maine's few nonprofit dental health-care organizations. His oldest son, Matthew, graduated from Colgate last spring, worked as a clinical researcher at Harvard/Dana-Farber Cancer Institute and is a member of the

WE WANT TO HEAR FROM YOU!

Have you opened a practice? Gotten married? Changed jobs? Fulfilled a lifelong dream? Keep your fellow alumni/ae up to date by filling out this form.

CHECK HERE IF ADDRESS IS NEW.

Send to: **Natalie Chassaigne, Tufts Dental Alumni Relations**
136 Harrison Avenue, Boston, MA 02111
email: dental-alumni@tufts.edu or fax: **617.636.4052**

Name

Class

Street

City

State

Zip

Email address

Class of 2013 at Tufts University School of Medicine. His middle child, Christopher, is a junior at Colgate and is also planning a career in the health sciences. His youngest, Jessica, is a senior in high school. Buttarazzi and his wife, Nancy, are enjoying their newfound freedom.

REUNION 2010,
APRIL 30–MAY 2

D85 Joseph Beninato and his partner, Howard Smith, have moved their practice from Methuen, Mass., to a converted mill building overlooking the Merrimack River in Lawrence, Mass.

D86 Jeff E. Dodge is serving as president of the Rhode Island Dental Association. His wife, **Mary Karish-Dodge, D87**, is a clinical

instructor in the department of general dentistry at Tufts Dental School, where she is a group practice coordinator. The couple maintains a private practice in Woonsocket, R.I.

D87 Catherine Hayes was one of six Tufts University alumni honored this spring with the Distinguished Service Award, the highest honor of the Tufts University Alumni Association. The annual awards recognize alumni who have demonstrated outstanding service to Tufts, their professions or their communities. Hayes is the Delta Dental of Massachusetts Professor and chair of the department of public health and community service at Tufts School of Dental Medicine. She has focused her research, advocacy and teaching activities

on addressing health disparities and the access-to-care crisis for dental services in the United States.

Mary Karish-Dodge, see D86.

David S. Samuels, DG90, is serving as president of the Massachusetts Dental Society for 2009–10.

D91 Victoria Ursitti married Patrick Hoffmann at the Church of Saint Monica in New York City on November 28, 2008. A second reception was held at the Signature Room, atop the John Hancock Center in Chicago.

D92 David A. Goldberg is doing pro-bono work for a Louisiana mother who is missing many of her front teeth due to poor dental hygiene and domestic abuse. After

receiving an email describing the woman's condition, Goldberg agreed to place the necessary implants for free.

DI93 Rosanna U. Masciadri is a member of the Georgia Academy of General Dentistry, a nonprofit organization of more than 1,000 general dentists in Georgia that is a state constituent of the Academy of General Dentistry.

D94 Paul Schoenbeck presented three courses at this year's Yankee Dental Congress: two hands-on courses with Cerec and a lecture on Cerec.

D97 Gabrielle DeMille, the director of the Gloucester and Salem Dental

TRAVEL TO EXTRAORDINARY PLACES WITH EXCEPTIONAL PEOPLE

From Germany to Greece, from Tuscany to Tanzania, our journeys feature intellectual inquiry with lectures and exploration. There's a perfect trip for every taste! Call Usha Sellers, Ed.D., Program Director, at 800-843-2586 for our brochure or visit our website for itineraries.

Visit our website to see the exciting new line-up of 2010 destinations!

TRAVEL-LEARN

visit: www.tufts.edu/alumni/ed-travel-learn.html

Health Centers, was involved in the addition of a second dental clinic in Gloucester, Mass., which will ensure that adults and children, especially those with lower incomes, will receive oral health care.

Joy E. Kasparian-Federico, J92, DG01, was recognized as a William McKenna Volunteer Hero by the Massachusetts Dental Society (MDS) for her contributions to organized dentistry at both the state and local levels. Kasparian-Federico is a member of the MDS Leadership Institute Ad Hoc Committee and of the board of directors for the MDS PAC-People's Committee. She serves as secretary of the East Middlesex District Dental Society and is an active volunteer at Yankee Dental Congress. In June, Kasparian-Federico was selected to serve as a guest member on the Board of Trustees of the MDS.

DG97 Timothy Temple is president-elect of the Florida Association of Endodontists and president of the Dental Society of Greater Orlando. He was also inducted into the American College of Dentists and the Pierre Fauchard Academy.

D99 Jennifer Statler is a board-eligible orthodontist practicing in Boca Raton, Fla. She is married to David Prusakowski, an endodontist. Statler served as a general practice dentist in the U.S. Navy from 2000 to 2005. She attended the Montefiore Medical Center in New York for orthodontics, graduating in 2008.

REUNION 2010,
APRIL 30–MAY 2

D00 Rebecca L. Paglia was recognized



WHAT'S NEXT?

Puja Mistry, D11, left, and Evin Adamian, D11, begin the process of pondering life after dental school during the annual Student/Alumni Networking session sponsored by the Tufts University Dental Alumni Association. The discussion topic for the 2009 event, held on March 10, was "Your First Job, Your Career, Your Financial Future and Keys to Staying Involved with Tufts." More than 20 Tufts alumni were on hand to offer career tips to current students.

as one of the "Ten under 10" by the Massachusetts Dental Society (MDS). To qualify for the award, dentists must have graduated from dental school within the past 10 years, be an MDS member and have made significant contributions to the profession, their community or organized dentistry. Paglia has volunteered overseas with the Himalayan Dental Relief Project in Nepal and Vietnam.

D01 Susan Baloul, DG04, DG05, was one of three Joseph E. Johnson Table Clinic Award winners at the 2009 annual session of the American Association of Orthodontists, held in Boston in May. Her table clinic presentation was titled "Cathepsin K Expression in Corticotomy-facilitated Tooth Movement," research that is aimed at finding out what happens to bone, on the molecular level, when selective alveolar decortication is combined with conventional tooth movement. She was also selected as one of eight finalists in the Research Forum Poster Session in the category of

basic research at the American Academy of Orthodontics' 2009 annual meeting in Boston. Baloul, who is in her fifth year as a clinical instructor of periodontology at Tufts Dental School, successfully defended her thesis for a doctor of science in oral biology on May 20 at Boston University, where she is now pursuing a certificate of advanced graduate study in orthodontics.

Erin K. Hoye was recognized as one of the "Ten under 10" by the Massachusetts Dental Society (MDS). To qualify for the award, dentists must have graduated from dental school within the past 10 years, be an MDS member and have made significant contributions to the profession, their community or organized dentistry. Hoye maintains a general practice in Marion, Mass., with her father, William Hoye.

DI02 Kateryna Latypova, DG05, has joined the office of William Guild, a periodontist practicing in Bennington, Vt. Latypova is a diplomate

of the American Academy of Periodontology. She and her husband, Paul, were delighted to welcome their son, Daniel Sebastian, born on August 21, 2008. She and her husband recently moved to Williamstown, Mass., with their 3-year-old daughter and son.

D03 Ancy Verdier, A96, DG06, was elected to the Tufts Alumni Council for a 10-year term during the Tufts University Alumni Association's annual elections this spring. He is a periodontologist with a private practice in Wainscott, N.Y., on the South Shore of Long Island, and is an associate clinical professor at New York University's School of Dentistry.

D04 Justin W. Shaghalian and his wife welcomed their first child, Samuel Justin, on July 4, 2008.

D06 Jessica S. Herbert, a captain in the U.S. Army, has returned from a six-month deployment to



Iraq, where she was stationed at Camp Victory in the Victory Base Complex, which occupies the area surrounding Baghdad International Airport. She was the dentist in charge at the Golby Dental Clinic, which serves a population of 13,000 U.S. and coalition soldiers as well as civilian contractors. She also served as the triage officer in charge of mass casualties at the Golby Troop Medical Clinic. Herbert is now stationed at Fort Riley in Manhattan, Kan., where she practices in the dental command.

DG06 Victor Grazina

opened a new orthodontic practice in East Hampton, N.Y., in fall 2008, and is working to attain LEED (Leadership in Energy and Environmental Design) certification for the facility.

Robert Wilson and Erika Lorraine Madden were married on June 28, 2008, in Boston.

D07 Seema Chawla and Joshua

Miranda were married on January 25, 2009, in Virginia Beach, Va.

David Merrell and **Jill Merrell** are living in Virginia, where David is stationed on board the USS *San Antonio* LPD 17. Jill works at Kool Smiles, a pediatric dental facility. They have one daughter, Evelyn Rose, who was born in December 2007.

Lisa Slaughter has joined the staff at the Avis Goodwin Community Health Center in Rochester, N.H., a nonprofit that has been offering health care to men, women and children for 35 years.

IN MEMORIAM

Harry Biederman, A34, D38
May 15, 2009
Newton Center, Massachusetts

Edson R. Rock, D39
April 13, 2009
Melbourne Beach, Florida

Louis G. Rancourt, D40
January 26, 2009
Palm Bay, Florida

Alvin Lazaroff, D43B, A73P, D77P
December 25, 2008
New Haven, Connecticut

Raymond Scheck, D43B
January 17, 2009
Riverdale, New York

James Z. Gailun, D44
April 29, 2009
West Hartford, Connecticut

George W. Banton, D45
March 28, 2009
Dade City, Florida

Harold F. Bosco, D45
June 3, 2009
Glastonbury, Connecticut

William H. Buker Jr., D45
March 4, 2009
Danbury, Connecticut

Emile N. Dupont, D45
February 3, 2009
Fort Lauderdale, Florida

Robert S. Smith, D45
April 16, 2009
Manchester, Connecticut

Robert S. Morris, A45, D46, J69P
January 19, 2008
Haverhill, Massachusetts

Robert J. Muse, D46
April 18, 2009
Newton Corner, Massachusetts

Elias R. Nawfel, D46
March 31, 2009
Waterville, Maine

Joseph A. Maker, A43, D47
February 19, 2009
North Andover, Massachusetts

Chester L. Rudman, D47
January 18, 2009
Chestnut Hill, Massachusetts

Phillip L. Birmingham, D48
January 27, 2009
Sarasota, Florida

Henry E. Snell, A44, D48, A83P
December 11, 2008
Brookline, Massachusetts

Leif B. Johannessen, D49
April 4, 2009
Wakefield, New Hampshire

Thaddeus S. Rodowicz, D49
May 8, 2009
Chicopee, Massachusetts

Robert E. Waite, D49
April 14, 2009
Beverly, Massachusetts

John J. Murray, D50
February 11, 2009
Clearwater, Florida

Thomas H. Brigham, D51
November 25, 2008
Birmingham, Alabama

F. Daniel Buttner Jr., D51
June 1, 2009
Scarborough, Maine

John R. Clark, D51
February 4, 2009
Manchester, New Hampshire

Paul M. Meymaris, D52
December 4, 2008
Yarmouthport, Massachusetts

DON'T FORGET TO CHECK OUT THE NEW TUFTS UNIVERSITY HOMEPAGE

www.Tufts.edu

The expanded format showcases more stories about the people, programs, research and scholarship that define your university.

Gene Stapulionis, D52
February 17, 2005
Lithuania

Carl E. Hunter, D57
March 2008
Myrtle Beach, South Carolina

Joseph P. Lanza, D60, D87P
December 21, 2008
Leominster, Massachusetts

Michael C. Hedrick, DG71
April 26, 2009
Scottsdale, Arizona

Harold A. Chamberlin, D53
December 15, 2008
Wayland, Massachusetts

Silvia E. Valdmanis, D57
May 10, 2009
Chestnut Hill, Massachusetts

Jacob M. Posen, D60, J86P
March 3, 2009
New York City

Kenneth R. Siemen, D74
March 7, 2009
Cambridge, Massachusetts

Milton Hodosh, D54, D79P, D87P
April 25, 2009
Providence, Rhode Island

James H. Connor, D58
May 15, 2009
Nottingham, New Hampshire

Daniel R. Woolwich, D61
April 22, 2009
Dennisport, Massachusetts

Kook J. Kim, D182
January 27, 2009
Andover, Massachusetts

Melvin W. Stern, DG55
January 9, 2009
Boston, Massachusetts

George M. Silva, A53, D58
May 25, 2009
Fall River, Massachusetts

James R. Geracci, DG66, DG72
May 7, 2009
Las Vegas, Nevada

Sang I. Lee, D05
March 2009
Fullerton, California

Casper H. Burke, D56
June 10, 2009
East Lyme, Connecticut

Joseph P. Szczepanski, D59
January 6, 2009
Waterbury, Connecticut

Norman Stephen Wood, D71
April 10, 2009
Bedford, Massachusetts

FRANK R. SUSI, FORMER SENIOR ASSOCIATE DEAN



Frank Robert Susi, G67, the former senior associate dean who developed the School of Dental Medicine's community service learning externship programs, died on June 9 in his native East Boston after a long illness.

He served on the dental school faculty from 1967 until his retirement in 2006, when he was named senior associate dean and professor of oral pathology emeritus.

A former president of the American Association of Dental Schools, Susi earned a B.S. degree in biology, magna cum laude, from Boston College and his dental degree and postgraduate certificate in periodontics from Harvard. He earned a Ph.D. in anatomy from Tufts in 1967. He also studied at the Armed Forces Institute of Pathology in Washington, D.C., and spent a postdoctoral year at McGill University in Montreal.

At Tufts Dental School, he directed the oral histology course from 1968 to 2003 and helped guide the school through two successful program re-accreditation processes during his 39-year tenure. He also was a professor of anatomy at Tufts' medical and veterinary schools.

His research focused on electron microscopy of the oral mucosa, and he was the author of numerous articles in professional journals and textbooks. Susi was a member of the American Dental Association (ADA) and the Massachusetts Dental Society, and he was a consultant to the ADA's Commission on Dental Accreditation.

SEPTEMBER 11

Radiology Certification Course
Drs. Audrey J. Furkart, Richard W. Shea, Brian M. Shea, Michael Putt and Brendan Gouin and Shannon Meloon Balletto

SEPTEMBER 16

Medical Emergencies and Head and Neck Cancer Examination for the Dental Team
Drs. Morton B. Rosenberg and Lynn W. Solomon

SEPTEMBER 23

Non-invasive Facial Cosmetic Procedures
Dr. Constantinos Laskarides

SEPTEMBER 25

Practical Update in Pediatric Dentistry
Dr. Michael Ignelzi Jr.

SEPTEMBER 30

Occupational Respiratory Infectious Diseases, Allergic Patients and Dental Care Providers
Dr. John A. Molinari

OCTOBER 2

Everything You Always Wanted to Know About Removables, but Were Afraid to Ask!
Drs. David R. Cagna and William A. Lobel

OCTOBER 7

The Answers to Your Dental Patient Care Concerns and Questions: Commonsense Clinical Approaches for a More Efficacious Dental Practice
Dr. Paul J. Vankevich

OCTOBER 9-10

The Triad Approach to Diagnosis and Treatment of TM Disorders: The Missing Link
Drs. Harold Gelb and David Klein

OCTOBER 10

New Advances in Implant Overdentures: Happiness through Simplification
Dr. Allen L. Schneider

OCTOBER 14

Introduction to the Use of the CEREC System
Dr. Paul C. Schoenbeck

OCTOBER 16

The Phantom of the Opera-tory: Let Your Pharmacology Inner Voice Guide You to Great Patient Management! An Overview and Update in Pharmacology for Dental Professionals
Thomas Viola

OCTOBER 17

Crown Lengthening Workshop
Drs. Emilio Arguello and Catherine Moshirfar

OCTOBER 21

Dental Update: Medical Emergencies and the Prevention and Management of Surgical Complications for the Non-oral Surgeon in the General Office
Drs. Morton B. Rosenberg and Kalpakam Shastri

OCTOBER 23

Interdisciplinary Treatment with Special Emphasis on Orthodontics and Periodontics
Dr. Robert L. Vanarsdall

OCTOBER 24

Advancements in Instruments and Irrigation
Dr. Ben Johnson

OCTOBER 28

Cone Beam CT Technology and Applications
Dr. Aruna Ramesh

OCTOBER 30-31

The Craniofacial Esthetics Institute Presents Real-world Occlusion: It's Not Just the Teeth
Drs. Noshir R. Mehta, Gerard Kugel and Robert J. Chapman

NOVEMBER 4

Implant Dentistry: Development and Current Focus
Dr. Roya Zandparsa

NOVEMBER 6-8

Forensic Science
Dr. William M. Morlang

NOVEMBER 13

Hornbrook Restorative Update 2009
Dr. David S. Hornbrook

NOVEMBER 13-14

Nitrous Oxide Certification Course
Drs. Morton B. Rosenberg, C.S. Maller and William A. MacDonnell

NOVEMBER 14

The Art and Science of Porcelain Laminate Veneers
Drs. Samer Khayat and YongJeong Kim

NOVEMBER 18

Risk Management: Record Keeping and Informed Consent
Barry Regan

NOVEMBER 20

The Art and Science of CAMBRA: A Team Approach to Using Chemical Treatments and Minimally Invasive Dentistry
Dr. Douglas A. Young

NOVEMBER 20-21

Nitrous Oxide Certification Course
Drs. Morton B. Rosenberg, C.S. Maller and William A. MacDonnell

DECEMBER 2

Dental Update for the Entire Team: Medical Emergencies
Dr. Morton B. Rosenberg

DECEMBER 4-5

Anatomy for the General Dentist: Essentials for Reducing Pain and Complications—Lecture and Hands-on Workshop
Drs. Abdelghany Hassan Abdelghany, Moataz M. Shaban, Mohamed Hassan and Bernard Friedland

DECEMBER 9

Management of Common Soft-tissue Oral Lesions
Drs. Michael A. Kahn and J. Michael Hall

All Continuing Education courses are held on Tufts University School of Dental Medicine's Boston campus, unless otherwise noted. For more information about these and other upcoming courses, contact:

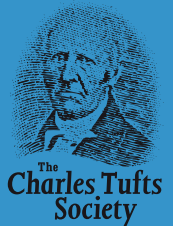
**DIVISION OF CONTINUING EDUCATION
TUFTS UNIVERSITY
SCHOOL OF DENTAL MEDICINE**

One Kneeland Street
Boston, MA 02111
Telephone: 617.636.6629
Fax: 617.636.0800
Email: paige.ambrose@tufts.edu



“When I was a student, I co-founded with some classmates the Tufts Alliance of Gays, the first group of its kind at the dental school. In honor of that group of students, Dennis and I included a bequest intention in our estate plans that will establish an endowed scholarship to support gay and lesbian students at the dental school.”

Look Ahead & FUDŽA@BJ



MICHAEL SUDDATH (left), D.M.D., D85, and DENNIS BOURGAULT, Esq., F88, in 1994 opened Chateau-Animaux—an upscale pet-supply store located on Washington, D.C.’s historic Barracks Row. Dennis left his law firm to concentrate on developing the business and in 2005 Mike retired from his dental practice. Chateau-Animaux was named 2008–2009 Retailer of the Year by *Pet Product News International*. Mike and Dennis were photographed on their 18th anniversary.

Tufts

For more information please contact Tufts’ Gift Planning Office
888.748.8387 • giftplanning@tufts.edu • www.tufts.edu/giftplanning

GRAND VISTA

When students, faculty and staff move to the five new floors atop the School of Dental Medicine later this year, they'll be greeted with airy, modern spaces and stunning views of the Boston skyline. For more on the story, turn to page 24.

