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BU Publications Outlook: Boston University Goldman School of Dental Medicine

2004

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Boston University

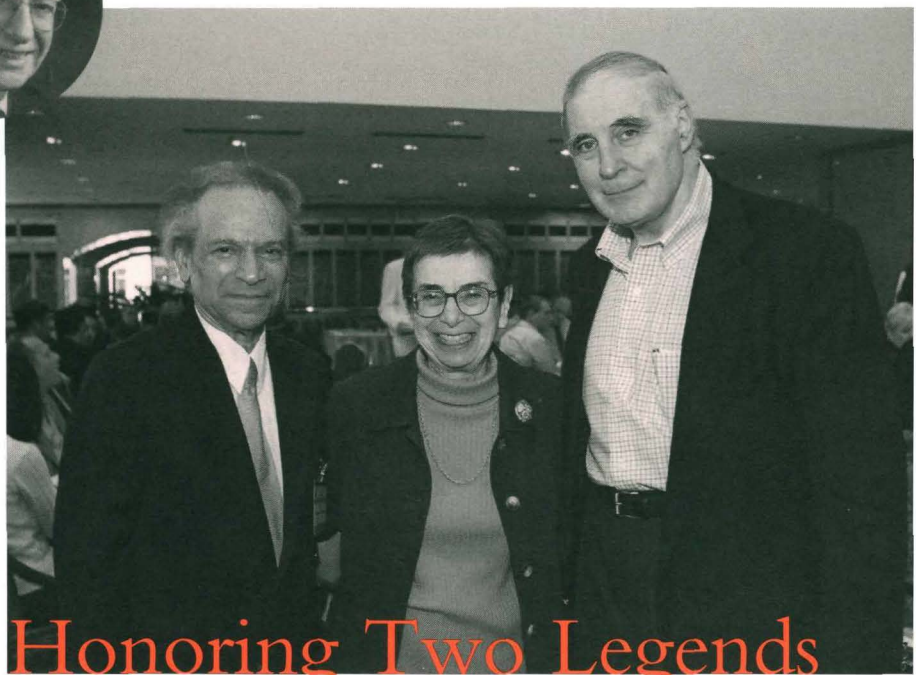
SPRING 2004

outlook

Boston University
Goldman School of Dental Medicine



Drs. Schilder (inset) and Gianelly (right) have a combined 83 years of experience at BUSDM and its predecessor, the Department of Stomatology at BU School of Medicine. Accepting the honor for Dr. Schilder is his wife, Joan (center), who stands with Dean Frankl (left) and Dr. Gianelly



Honoring Two Legends

Dr. Anthony Gianelly and Dr. Herbert Schilder

On March 25–27, BUSDM's Division of Continuing Education presented a symposium in honor of the founding chairs of two of the school's postdoctoral programs: Anthony Gianelly, of the Department of Orthodontics and Dentofacial Orthopedics, and Herbert Schilder, of the Department of Endodontics. The three-day scientific and clinical symposium, held at the Langham Hotel in Boston, featured topics in orthodontics and endodontics. More than 150 people participated, including over 40 alumni.

The conference's highlight was a luncheon honoring Drs. Gianelly and Schilder, who was represented by his wife, Joan. Throughout their careers, Drs. Gianelly and Schilder made significant and original contributions to their fields. They established standards of dental education and practice that will endure for years to come.

"Tony and Herb were uncompromising in their mission to build the very best postdoctoral programs in orthodontics and endodontics," says Dean Frankl. "They are both world renowned experts in their fields, constantly in high demand nationally and internationally for their knowledge and expertise. However, they never lost sight of their priorities—their students."

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congratulations

At the school's December 2003 faculty/staff meeting, the following employees were honored for their exemplary service to BUSDM. The Henry M. Goldman Award is presented annually to a faculty or staff member who has demonstrated outstanding commitment to the school; two Awards for Teamwork (one for faculty, one for staff) are presented quarterly to employees who epitomize the spirit of collaboration in their day-to-day work.



Gerard Dorato

Mr. Gerard A. Dorato, Henry M. Goldman Award for Distinguished Service

Mr. Gerard Dorato, senior dental technician, has been a member of the BUSDM family since attending the school's dental technology program nearly 20 years ago. A talented technician who teaches in several preclinical courses, he is fundamental to the success of the school's production and educational dental laboratory. He is well liked by his colleagues and students, who have honored him with numerous awards over the years for his dedication to their learning experience. When various classes have requested additional instruction in a particular area, he has never hesitated to perform demonstrations or conduct hands-on laboratory sessions. His contributions continue to have a lasting impact on the school's students and on the outstanding care they provide to their patients.



Barbara McKenna

Ms. Barbara McKenna, Quarterly Award for Teamwork

Ms. Barbara McKenna joined BUSDM in 1997 after many years of experience in the state's judicial system. She quickly advanced to the position of supervisor of patient services, where she keeps first-floor clinic operations flowing smoothly. Her commitment to customer service and education are her hallmarks. She takes a hands-on, no nonsense approach to guiding patients through the process of registering and receiving care, and also keeps clinical faculty and students on their toes when it comes to dealing with patients in an organized and timely manner.



David Gabelman

Dr. David Gabelman, Quarterly Award for Teamwork

Dr. David Gabelman, assistant clinical professor of general dentistry, became a full-time faculty member in 2000 after many years of outstanding service at a BUSDM externship site, the U.S. Coast Guard Reserve Training Center in Yorktown, Pennsylvania. At BUSDM, he is a member of the Department of General Dentistry and serves as a mentor in the predoctoral program. His contributions have been instrumental in shaping an educational experience for our students that emphasizes the fundamentals of working as a team. His input into the reorganization of the clinical structure for the DMD program has been invaluable.



Continuing Education Recertified

In February, BUSDM's continuing education programs were recertified by the American Dental Association's Continuing Education BUSDM Program. Continuing education at BUSDM successfully met all standards related to mission, goals, evaluation, education methods, instructors, facilities, administration, fiscal responsibility, publicity, admissions, patient protection, record keeping, and electronic learning.

Dr. Zhimon Jacobson is the director of the Division of Continuing Education.

Thank you for the Holiday Generosity

Thanks to the generosity of BUSDM faculty and staff, many needy children were able to enjoy a happy holiday. Two toy drives—one for the Boston Public Health Commission's Healthy Baby/Healthy Child program and another for pediatric AIDS patients at Boston Medical Center—provided gifts to youngsters throughout the city. The Healthy Baby/Healthy Child toy drive was organized by BUSDM's Division of Community Health Programs, while Kelly Ogilvie-McLean, clinical research coordinator at the Clinical Research Center, and Kathleen Bagley, administrative coordinator in the Department of Diagnostic Sciences and Patient Services, were instrumental in organizing the toy drive for the hospital's pediatric AIDS patients.

Ogilvie-McLean received this letter of thanks from the Pediatric AIDS Program:

On the Move

Working at BUSDM means never getting complacent. A departmental reorganization and the relocation of several employees drove this point home in January.

Two separate divisions were formed from the former Office of Admissions and Student Services: the Office of Admissions and Student Services and the Office of the Registrar. The Office of the Registrar moved to room 428 of 100 East Newton Street (ENS) while the Office of Admissions, which remains in its current location in room 305 of ENS, was renovated to provide a more welcoming and open floor plan.

"The move was planned to expand the customer-service of both divisions," says Kathi Ferland, director of administration. "Each division now has more space, and we have been able to add a position to the Office of Admissions and Student Services that will focus on providing support and resources to students."

The Office of Continuing Education moved back to their familiar space in the Office of the Dean, while the Office of Communications was reunited with their colleagues in the Office of Development and Alumni Relations in the Robinson building.

All phone extensions remain the same.

Dear BUSDM:

On behalf of the children and families of the Pediatric AIDS Program, I extend our heartfelt thanks for your generous help this holiday season. We received an unprecedented amount of toys, clothing, and general well wishes, and all our families were able to enjoy a festive holiday. Weeks later, many of the kids and their guardians are still buzzing. It is your support that made our gift drive possible and successful. Thank you for helping, sharing, and caring.

I hope this collaboration will continue for years to come as it is such an important part of the children's holiday season. At the Pediatric AIDS Program, we appreciate your generosity and continued support.

Yours sincerely,

Kimberly Smith

Pediatric Social Worker, Boston Medical Center

Researcher Finds More Evidence of Connection Between Poor Oral Health and Heart Diseases

An article published by Dr. Sok-Ja Janket, research assistant in the Department of General Dentistry, reinforces the connection between poor oral health and heart disease. Janket, who was the lead author in the study published in *Circulation: Journal of the American Heart Association*, notes that oral infections produce inflammation that may be associated with coronary heart disease. The study was also cited in a February 24 *New York Times* article.

Researchers looked at 256 Finnish cardiac patients and 250 noncardiac patients with similar general characteristics. Janket and her colleagues discovered that having poor scores in five areas of oral health indicated 70% of the time that a person also had coronary heart disease. The oral health markers they looked at included infection around the third molar, gingivitis, missing teeth, root remnants, and dental caries. The strongest predictor of coronary disease was pericoronitis, followed by root remnants, gingivitis, caries, and missing teeth.

Janket's research strengthens the connection between poor oral health and periodontal disease, noted in previous epidemiological studies by Dr. Raul Garcia, chair of the Department of Health Policy and Health Services Research. Even though this earlier research was challenged by several large-scale epidemiologic studies, Janket's study clearly shows the veracity of the previous research.

Summative Evaluation Soon to Be Online

An online summative evaluation system is scheduled to be up and running in September 2004. The new system will accommodate the existing paper summative evaluations while providing added flexibility for faculty. With the online form, managing and evaluating student performance will be easier than ever.

The new system is being developed by the Office of Educational Research and Evaluation and the Office of Information Technology.

Faculty and Students Attend IADR Meeting

Many BUSDM researchers, including faculty and predoctoral and postdoctoral students, attended the International Association of Dental Research's general session and exhibition in March in Honolulu. From the Department of Molecular and Cell Biology, five predoctoral students presented their research: Joanne Tsagas DMD 05, Frank Schiano DMD 06, Mohammad Kamal DMD 04, Michael Kacewicz DMD 06, and Ming-Chi Yeh DMD 05.

Several students and postdoctoral fellows from the Department of Periodontology and Oral Biology also attended the meeting and presented their research. Postdoctoral fellows and research associates included Jens Herrmann, Tsuyoshi Fujita, Csilla Gyurko DSc 00, DMD 02, Xiaojing Li, DSc 03, Hamdi Nassar, Taisuke Ohira, Camille Siquiera DSc 03, and Yuan Yao DSc 99 DMD 04. Students included Adel Alagie DSc 04, Samuel Black PhD 07, Lucilla Bruno DSc 04, Michael Davey PhD 05, Yong Ding PhD 04, Xiaozhe Han PhD 04, Edwin Heng PERIO 04, Onir Leshem PhD 07, Elena Stan PhD 05, Maria Stan PhD 07, and Li Wang DSc 04.

General Dentistry Symposium

On March 2, 2004, the Department of General Dentistry held its annual meeting at BU's School of Management. This year's conference, which focused on evidence-based care and cultural competence, was attended by school faculty and faculty from the APEX program. Presentations explored evidence-based dentistry in several contexts, including the relationship between periodontal disease and cardiovascular disease, the relationship between periodontal disease and glycemic control in diabetics, and antibiotic use in endodontics.



Dr. Judith Jones presents at the general dentistry symposium.

Children Who Eat Breakfast Daily Have Fewer Cavities Fruits and Vegetables Also Reduce Cavities

Research published by Jonathan Shenkin, assistant clinical professor in BUSDM's Departments of Health Policy and Health Services Research and Pediatric Dentistry, demonstrates that children who eat breakfast daily have fewer cavities. The research also shows that children who eat five or more servings of fruits and vegetables each day have fewer cavities.

The article, in the *Journal of the American Dental Association* by Shenkin and five other researchers, looked at the dietary habits of 4,236 children aged two through five years from various socioeconomic groups, with the goal of investigating the relationship between healthful eating practices and dental cavities. Researchers found that not eating breakfast daily or not eating five servings of fruits and vegetables daily increased the odds of developing cavities. This was found to be true even among children who do not live in poverty. The researchers conclude that dental health education should encourage parents and primary caregivers to promote healthful eating practices for young children.

Gianelly and Ferguson Attend Angle Society Meeting

Drs. Anthony Gianelly and Donald Ferguson, former and current chairs, respectively, of the Department of Orthodontics and Dentofacial Orthopedics, attended a regional meeting of the Angle Society of Orthodontists in April. Only approximately five percent of North American orthodontists are members of this invitation-only society, which is dedicated to excellence and progress in the art and science of orthodontics.

Henshaw Evaluates Service Learning

Dr. Michelle Henshaw, director of BUSDM's Division of Community Health Programs, has published a 137-page monograph about evaluating service-learning programs in dental education. "Service-learning is an educational strategy that takes community-based education to a higher level," says Henshaw in the monograph. "A vast body of research has shown that service learning enhances students' academic performance, civic engagement, and personal, social, and professional development."

Before publication of the monograph, however, scant information existed regarding methods for evaluating service learning in dental schools. Henshaw's research addresses this gap by creating an evaluation framework tailored to dental and dental hygiene education. She provides an overview of common evaluation approaches, the strengths and weaknesses of each, and discusses how to apply them effectively to monitoring and evaluating the success of service learning programs.

"There is no one approach to evaluation," she says. "Instead, the approach is driven by the purpose of the evaluation and the resources available."

BUSDM, a pioneer in both community-based education and educational evaluation in schools of dental medicine, is in the process of expanding dental students' formal community involvement with the support of a grant from the Robert Wood Johnson Foundation. As part of this initiative, a community outreach project has been added to BUSDM's Externship rotations. Broadening the scope of what has historically been an entirely clinical experience will help the students enhance their critical thinking skills and develop a larger sense of professionalism.

"This project has given us insight to how important it is to work within a community," says Jessica Walker DMD 04 "Being involved in a project to help insure public well-being is rewarding and allows us to not only be a dentist, but also a health care provider."

Henshaw's research was supported by her fellowship with Community-Campus Partnerships for Health (CCPH), a nonprofit organization located in San Francisco that promotes health through partnerships between communities and higher educational institutions.

welcome

Kevin Alfred, Sterilization Assistant, Clinical Services
Christy Ballweber, Program Manager, Education Research and Evaluation
Sulagna Banerjee, Postdoctoral Fellow, Molecular and Cell Biology
Hussam Baral, Assistant Professor, Oral and Maxillofacial Surgery
Joan Bohlke, Research Assistant, Health Policy and Health Services Research
Prashanti Bollu, Administrative Assistant, Health Policy and Health Services Research
George Boquet, Records Coordinator, Patient Records Room
Myra Brennan, Clinical Instructor, General Dentistry
Brian Carson, Patient Coordinator, Fifth- and Sixth Floor Clinics
Laura Cassell, Educational Support Assistant, Clinical Services
Suchismita Das, Postdoctoral Fellow, Molecular and Cell Biology
Jennifer Deady, Research Technician, Periodontology and Oral Biology
Rachel Delucas, Research Technician, Restorative Sciences/Biomaterials
Thomas Dietrich, Visiting Scholar, Health Policy and Health Services Research
Karen Furia, Administrative Coordinator, Oral and Maxillofacial Surgery
Paul Gambardello, Sterilization Assistant, Clinical Services
Dottie Georgopoulos, Project Manager, Office of the Dean
Francis Harrington, Clinical Instructor, General Dentistry
Meredith Harward, Patient Coordinator, Clinical Services
Robert Hennessy, Research Technician, Periodontology and Oral Biology
Chi Hong Ho, Billing Assistant, Dental Health Plan
Iveta Iontcheva, Research Associate, Periodontology and Oral Biology
Michael Isner, Patient Coordinator, Patient Services
Marlena James, Patient Coordinator, Patient Services
Sok-ja Janket, Research Assistant, General Dentistry
Bing Liu, Assistant Professor, General Dentistry
Joseph MacConnel, Custodian, Custodial Services
Hongfang Mao, Dental Assistant, Periodontology and Oral Biology
Kurt McLaughlin, Sterilization Assistant, Clinical Services
Gina Meloni, Administrative Coordinator, Office of the Registrar
Eden Mogos, Clinic Coordinator, Patient Services
Marta Moleiro-Becker, Clinical Instructor, Health Policy and Health Services Research
Mani Moulazadeh, Assistant Professor and Director, Postdoctoral Endodontic Clinic, Endodontics

Carmen Negrón-Colón, Dental Hygienist, Patient Services
Tamara Nelson, Administrative Assistant, General Dentistry
Zsofia Nemoda, Postdoctoral Research Fellow, Molecular and Cell Biology
Dawn Nguyen, Instructor, General Dentistry
Alecha Pantaleon, Administrative Coordinator, Periodontology and Oral Biology
Jessica Perrington, Patient Coordinator, Patient Services
Kristal Raymond, Research Assistant, Health Policy and Health Services Research
Khadija Rhourida, Research Technician, Periodontology and Oral Biology
Mariela Sanchez, Patient Coordinator, Clinic Affairs
Melissa Sanchez, Sterilization Assistant, Clinical Services
Leonesse Saunders, Data Entry Assistant, Educational Research and Evaluation
Dena Serounian, Custodian, Custodial Services
Helen Skountrianos, Assistant Professor, Orthodontics and Dentofacial Orthopedics and General Dentistry
Nicole Stoffels, Senior Administrative Coordinator, Admissions and Student Services
Miguel Tabares, Dental Assistant, Health Policy and Health Services Research
Franson Tom, Assistant Clinical Professor, General Dentistry
Gerardo Torres, Supply Store Assistant, Clinic Financial Office
Stephanie Trahan, Administrative Coordinator, Restorative Sciences/Biomaterials
Christy Van Bortel, Patient Coordinator, Clinical Services
Nhan Vo, Dental Assistant, Health Policy and Health Services Research
James Wolcott, Assistant Professor, Endodontics
Beverly Wyman, Dental Hygienist, Office of Clinical Affairs
Lena Zarka, Clinical Instructor, Dental Health Center

[February 19, 2004]

hats off to . . .

Implantology resident Yaser M. Alkhiary MSD 01 DScD 03 was awarded the 2003 Young Investigator Award by the American Society for Bone and Mineral Research (ASBMR). His presentation, entitled "Enhancement of Experimental Fracture Healing with Parathyroid Hormone (PTH 1-34)," was selected from hundreds of competing entries. This year was the first time BUSDM has participated in the ASBMR competitors. Alkhiary conducted his research with Drs. Dan Nathanson (BUSDM), Louis Gerstenfeld, and Thomas Einhorn (BUSM).

Dr. Raul Garcia, chair of the Department of Health Policy and Health Services Research, was invited to join the "Santa Fe Group," a well-known think tank aimed at improving the health and well-being of the public. He also has joined the board of directors of the American Dental Association Foundation. This philanthropic organization enhances health by securing contributions and providing grants for dental research, education, and access to care.

On May 3, Dr. Anthony A. Gianelly, former chair and current professor in the school's Department of Orthodontics and Dentofacial Orthopedics, will be honored by the American Board of Orthodontics when it presents him with the Albert H. Ketcham Award. This award is given annually to an individual who has made a notable contribution to the science and art of orthodontics.

Alisa Gibson DMD 04 and Leila Nezakatgoo DMD 04 are this year's BUSDM recipients of the Massachusetts Dental Society's HPSC Louis J.P. Calisti Scholarship. The awards are given annually to two predoctoral students at each of the Boston schools of dental medicine who maintain a GPA of 3.0 or higher.

Alisa Gibson also received the American College of Dentists Award, presented at Yankee Dental Conference 2004. Says Dean Spencer N. Frankl of this talented student: "She not only has consistently ranked academically at the top of her class, she exemplifies the integrity, social responsibility, and compassion that are the ideals of the American College of Dentists."

Ying Guo PhD 04 of the Department of Periodontology and Oral Biology received the Dean's Award during Boston University's Science and Technology Day for the presentation, "Effects of lysyl oxidase propeptide on osteoblast proliferation and mineralization."

Periodontology resident Mamdouh Karima DScD 02 was awarded the 2003 American Academy of Periodontology Balint Orban Award for Excellence in Research at the academy's annual meeting. His presentation "Engagement of RAGE (receptor for advanced glycation endproducts) contributes to neutrophil priming, periodontitis, and altered host responses in diabetes" was selected from 24 competing submissions. The award is considered the most prestigious in the field of graduate periodontal research.

Mercay Romero DMD 05 has received the 2004 ADEA/Listerine Preventive Dentistry Scholarship in the amount of \$2,500. This scholarship, which supports predoctoral dental students who have demonstrated academic excellence in preventive dentistry, is awarded annually to 12 students at U.S. dental schools.

ASDA News

At the American Student Dental Association's (ASDA's) Board of Trustees meeting in April, two BUSDM students were selected as national leaders in ASDA for 2004-2005. They are Brittany Soden DMD 06, BUSDM's ASDA first delegate and 2003-2004 ASDA extern in health care policy, and Elisa Sin DMD 07, the school's ASDA fundraising chair. Soden, who will become the new Eastern legislative grassroots network liaison, will disseminate legislative updates and information to the legislative liaisons for every ASDA chapter in the Eastern United States; Sin will become the new extern in research and scientific affairs, spending a month this summer doing research at the ADA headquarters in Chicago, working at the ADA's Council on Scientific Affairs' Seal of Approval Program. Sin is the fourth BUSDM student in the past four years to be selected for this position.

Also, in February eight student leaders of BUSDM's American Student Dental Association chapter attended the association's regional meeting in Chicago. BUSDM had the highest number of national leaders among all schools in the region for the 2003-2004 school year. Also attending were Amelia Grabe DMD 05, Leon Yu DMD 06, Dave Blackburn DMD 06, Zeynab Barakat DMD 06, Riza Santos DMD 07, Elisa Sin DMD 07, and Khurram Sheikh DMD 07.

Faculty Annual Review and Development a Model for University

When Dean Spencer N. Frankl met with the Boston University Council of Deans in March, he shared with them the school's philosophy and plans for faculty review and development. The program, implemented as part of the school's Learning Organization initiative, focuses on the development and renewal of faculty through dialogue and feedback.

None of the schools or colleges at Boston University have as detailed a plan as BUSDM, and Dr. Aram Chobanian, president *ad interim* of the university, has recommended that the school's program be used as a model for the entire university.

Profile: Dr. Greg Stoute

"I really enjoy working with students," says Dr. Greg Stoute, BUSDM's director of minority affairs and associate professor in the Departments of General Dentistry and Health Policy and Health Services Research. The former member of the Air Force Dental Corp joined BUSDM in 2002 after serving as chief of dental services at Harvard University and Massachusetts Institute of Technology and dental director of Boston's Health Care for the Homeless and the Codman Square Health Center.



His connection with the school goes back to 1991, when the Codman Square Health Center was one of the founding sites for BUSDM's APEX Program (Applied Professional Experience). "The school has always been committed to community dentistry and exposing students to working with diverse populations," he says. "Coming to BUSDM was a natural fit for me."

As director of minority affairs, Dr. Stoute focuses on increasing the number of qualified minority dental students at BUSDM. One of his strategies is to form alliances with organizations that promote the health professions to inner city high school students, such as the Youth to Health Careers Program of the Boston Area Health Education Center. Programs like this one help strengthen students' science and math skills while providing real-world exposure to the health care field. Each month, several high school students visit BUSDM and observe in the classrooms and clinics, giving them a taste of what dental school would be like.

In addition, a pilot program (funded by the school's Robert Wood Johnson Foundation grant) brought several undergraduate college students to BUSDM's 2003 Excel Program, where incoming DMD students who want to get a head start on their education come to the school each July to study topics such as anatomy and biochemistry. Dr.

Stoute hopes to expand the college element into a full-fledged summer program for students interested in dentistry.

Dr. Stoute traces his own interest in health care back to his high school days in New Jersey. His uncle was a dentist, and Dr. Stoute decided to follow in his footsteps. After attending Brown University, he studied at Tufts School of Dental Medicine then served in the Air Force in Texas. It was in Texas that he had his first experience teaching—at Baylor University—and realized he enjoyed working with young people. "They are excited about the learning process," he says. "Their youthful enthusiasm keeps me going!"

Always interested in new challenges, he later moved back to the Northeast and studied at Harvard University, where he completed a faculty fellowship in geriatric dentistry and also received his MPH.

Dr. Stoute is active in numerous professional societies; most notably, he served in 2002 as president of the National Dental Association. He has also been involved with many national committees on health care reform and was a reviewer on the 1999 U.S. Surgeon General's Report on Oral Health.

Dr. Stoute is currently commander of the 455th Medical Company as lieutenant colonel in the U.S. Army Reserves Dental Corp, which he joined in 1984. Being in the reserves combines his love of travel and community service—as a reserve member, he has travelled extensively in Central and South America and the American West, treating people who would otherwise not have access to dental care, including indigenous populations such as Native Americans. He says it is only a matter of time before his unit is sent to Iraq, where he again expects to serve by caring for not only members of the U.S. military but also the local populace.

Accreditation Update

It's that time again. Preparation has begun for the September 20-22, 2005, accreditation site visit by the American Dental Association. The predoctoral program and eight of nine postdoctoral programs will be evaluated for performance, integrity, and quality. On October 25-28, 2004, we will host a mock site visit, where evaluators will visit the school to help us prepare for the actual visit in September 2005.

Preparation began in July 2002 with the formation of a core accreditation committee. Each member is charged with researching and writing, with their subcommittee members, the self study for one of the six accreditation standards.

The standards, team leaders, and subcommittee members are as follows:

Standard 1: Institutional Effectiveness

(Ms. Kathi Ferland)

Ms. Barbara Cole
Dr. Marvin Cook
Ms. Valerie Denomy
Ms. Kathleen Ferland
Dr. Deborah Fournier
Dr. Michelle Henshaw
Mr. Timothy McDonough
Mr. Richard Rabbett

Standard 2: Educational Programs

(Dr. Jeffrey Hutter)

Dr. Stephen DuLong
Mr. Ibrahim Kachouh
Dr. Paul Farsai
Dr. Deborah Fournier
Ms. Catherine Frankl-Sarkis
Dr. Barbara Schreiber
Dr. Lawrence Zoller

Standard 3: Faculty and Staff

(Ms. Kathi Ferland)

Ms. Valerie Denomy
Ms. Kathleen Ferland
Mr. Richard Rabbett

Standard 4: Educational Support

Services (Ms. Catherine Frankl-Sarkis)

Mr. Andrew Burke
Dr. Stephen DuLong
Dr. Bruce Robinson
Ms. Catherine Frankl-Sarkis

Standard 5: Patient Care Services

(Dr. Stephen DuLong)

Mr. Andrew Burke
Ms. Allyson Baughman
Dr. John Guarente
Dr. Bruce Robinson

Standard 6: Research Program

(Dr. Maria Kukuruzinska)

Dr. Claudia Abeijon
Dr. Nargess Ashayeri
Mr. Andrew Burke
Dr. Roberto Carvalho
Dr. Russell Giordano
Ms. Afaf Hourani
Dr. Jeffrey Hutter
Dr. Judith Jones
Dr. Michael Kacewicz
Mr. Ibrahim Kachouh
Dr. Elizabeth Krall
Dr. Maria Kukuruzinska
Dr. Cataldo Leone
Ms. Meg Loadholt
Dr. Ana Karina Mascarenhas
Dr. Miklós Sahin-Tóth
Dr. Philip Trackman
Ms. Joanne Tsagas
Dr. Thomas Van Dyke

research highlights

General Dentistry

Stephen DuLong

- Ryan White HIV/AIDS Dental Reimbursement Program. HRSA/BHP.

Judith Jones

- Conference: Elders' Oral Health Summit. NIH/NIDCR, Brasseler, Dentsply, GlaxoSmithKline.

Health Policy and Health Services Research

Spencer Frankl

- New England Dental Access Project. Robert Wood Johnson Foundation.

Raul Garcia

- Endodontic inflammation and cardiovascular outcomes. NIH/NIDCR.
- Northeast Center for Research to Reduce Oral Health Disparities Minority Supplements. NIH/NIDCR.
- Northeast Center for Research to Reduce Oral Health Disparities. NIH/NIDCR.
- Oral conditions and systemic health outcomes. NIH/NIDCR.
- Oral health outcomes in older veterans. U.S. Dept. of Veterans Affairs.

Martha Nunn

- Interleukin-1 composite genotype and alveolar bone loss. NIH/NIDCR.

Michelle Henshaw

- Dental Literacy Action Project. Santa Fe Group.
- Healthy Baby/Healthy Child Oral Health Promotion. Centers for Disease Control and Prevention/Prevention Research Center's Small Grant Program for Oral Health.
- Oral conditions and health outcomes in frail elders. NIH/NIDCR.
- Oral Health Equity Project. Delta Dental Foundation/Boston Public Health Commission.
- Seal Framingham. MetroWest Community Health Care Foundation.
- Seal Natick. MetroWest Community Health Care Foundation.

Ana Karina Mascarenhas

- Access to dental careers. W.K.Kellogg Foundation, American Dental Education Association.
- Dental public health residency training grant. HRSA/BHP.

Molecular and Cell Biology

Claudia Abeijon-Gherbes

- Biosynthesis of yeast cell wall beta 1,6 glucan polymers. NIH/NIGMS.

Patricia Berninsone

- Glycan alterations in *C. elegans* surface mutants. NIH/NIGMS.

John Cipollo

- Characterization of the *C. elegans* N- and O-glycomes. NIH/NIGMS.

Carlos Hirschberg

- Glycosylation mechanisms. NIH/NIGMS.

Maria Kukuruzinska

- Developmental regulation of the salivary ALG7 Expression. NIH/NIDCR.
- Integrin-cadherin cross talk in salivary gland biogenesis. NIH/NIDCR.

Phillips Robbins

- Integrin-cadherin cross talk in salivary gland biogenesis. NIH/NIDCR.

Miklós Sahin-Tóth

- Molecular pathomechanism of hereditary pancreatitis. NIH/NIDDK.

John Samuelson

- Cell biology, genetics, and biochemistry of giardia. NIH/NIAID.
- Three lectin of amebic encystation and excystation. NIH/NIAID.

Periodontology and Oral Biology

Salomon Amar

- Functional genomics in periodontal host-parasite Interactions. NIH/NIDCR.
- Modulation molecular pathogenesis in systemic disease (biological core). With Boston Medical Center. NIH/NIDCR.
- Role of LITAF in inflammatory processes. NIH/NIDCR.
- Systemic endothelial consequences of periodontal disease. NIH/NIDCR.

Serge Dibart

- Research under confidentiality agreement with grantor.

Dana Graves

- Bone-derived cells produce a chemotactic factor. NIH/NIDCR.
- Modulation of molecular pathogenesis in systemic disease. With Boston Medical Center. NIH/NIDCR.

Robert Gyurko

- Nitric oxide defense against *Porphyromonas gingivalis*. NIH/NIDCR

Cataldo Leone

- Short-term training for minority and women dental students. NIH/NIDCR.

Frank Oppenheim

- Microbicidal salivary histidine-rich proteins. NIH/NIDCR.
- Optical microsensor arrays for saliva diagnostics. With Tufts University. NIH/NIDCR.
- Postdoctoral training in oral biology. NIH/NIDCR
- Salivary proteins in dental integuments. NIH/NIDCRR

Philip Trackman

- Growth factors and gingival fibrosis. NIH/NIDCR
- Inhibited intramembraneous bone healing in diabetes. NIH/NIDCR.

Thomas Van Dyke

- Biological bases of refractory periodontal diseases. With the Forsyth Institute. NIH/NIDCR.
- General Clinical Research Center. NIH/NIDCR.
- Growth factors and gingival fibrosis. NIH.
- Growth Factors and gingival fibrosis. NIH/NIDCR.
- Immunization with cysteine proteases for modulation of the host response to *P. gingivalis*. U.S.-Israel Binational Science Foundation Award.
- Microbial characterization of initial periodontitis. With the Forsyth Institute. NIH/NIDCR.
- Microsensor arrays for saliva diagnostics. NIH/NIDCR.
- Modulation of molecular pathogenesis in systemic disease: project 4. With Boston Medical Center. NIH/NIDCR.
- Modulation of the host-response to the periodontal pathogen *P. gingivalis*. U.S.-Israel Binational Science Foundation Award.

- Molecular mechanisms in leukocyte-mediated tissue Injury: core B. With Brigham and Women's Hospital. NIH/NIDCR.
- Molecular mechanisms in leukocyte-ediated tissue injury: project 2.
- Northeast Center for Research to Reduce Oral Health Disparities. NIH/NIDCR
- Periodontal inflammation in Type I diabetes. NIH/NIDCR.
- Periodontal intervention for cardiac events. NIH/NIDCR, SUNY Research Foundation.
- Research under confidentiality agreement with grantor.

Restorative Sciences/Biomaterials

Laisheng Chou

- AIDS education and clinical training. UMASS-Worcester, HRSA
- *In vivo* study of bioglass materials. US Biomaterials.

Russell Giordano

- Research under confidentiality agreement with grantor.

Dan Nathanson

- Research under confidentiality agreement with grantor.

[December 2003]

Professor Salomon Amar Named to FDA Panel

Dr. Salomon Amar, professor in the Department of Periodontology and Oral Biology, has been named to the Federal Drug Administration's Dental Products Panel. Dr. Amar's appointment is effective immediately.

The FDA's Dental Products Panel, a subsidiary of the Medical Devices Committee, reviews and evaluates data on the safety and effectiveness of marketed and investigational products and makes recommendations for their regulation.

"I am honored and excited to join such esteemed colleagues on this panel," said Amar. "The responsibility is awesome, but one I welcome. We are charged with very serious and challenging tasks, and I am grateful for the opportunity to share my expertise and opinions with such highly regarded dental professionals, scientists, and researchers," he said.

The Dental Products Panel also operates as a dental drug panel, evaluating and recommending whether prescription drug products should be changed to over-the-counter status, and making recommendations of whether new

dental drug products should be approved for human use.

At BUSDM, Amar and his colleagues study the molecular processes involved in inflammatory diseases (e.g., rheumatoid arthritis, gum disease, and inflammatory bowel disease). Their goal is to identify the molecular factors controlling cytokine gene expression in inflammatory processes, gingivitis, and periodontitis, with the ultimate aim of reducing deleterious effects such as bone loss and connective tissue destruction associated with the over-expression of these cytokines. In 1997, Amar cloned a novel transcription factor capable of significantly repressing expression of the TNF gene, which is involved with inflammation.

Amar also studies wound healing and periodontal regeneration. His efforts focus on the identification and characterization of cells and extra-cellular matrix macromolecules and the identification factors crucial to the regeneration of periodontal structures after periodontal diseases.

science day / science

The school held its annual Science Day on Thursday, March 18. Twenty-one predoctoral and postdoctoral students showcased their research via poster or oral presentations, and 26 dental vendors displayed their products throughout the day in the first-floor lobby and cafeteria. Keynote speaker Dr. Louis Gerstenfeld, professor of orthopedic surgery and biochemistry at Boston University School of Medicine, discussed developmental aspects of fracture healing and the use of pharmacological agents to alter healing.

Awards were presented during the Science Night gala dinner, held the following evening at the Colonnade Hotel.

Science Day and Night are sponsored by the Class of 2005, the Student Research Group, and the Predoctoral Research Program.

Thanks to the Judges

- Dr. Judith Jones, chair, Department of General Dentistry
- Dr. Cataldo Leone, associate professor, Department of Periodontology and Oral Biology
- Miklós Sahin-Tóth, assistant professor, Department of Molecular and Cell Biology
- Dr. Alpdagon Kantarci, assistant professor, Department of Periodontology and Oral Biology
- Dr. Maria Kukuruzinska, director of Predoctoral Research Program and professor, Department of Molecular and Cell Biology



A student reviews equipment at the vendor fair



Keynote presenter Dr. Louis Gerstenfeld with Dean Spencer N. Frankl

Vendors

Science Day and Night would not be possible without the attendance and support of the following vendors:

Aspen Dental *
Axis Dental Corporation
Baccari Cabral Group
Benco Dental Company *
Brasseler USA
Carl Zeiss Surgical, Inc. *
Colgate Oral Pharmaceuticals *
Dentsply/Tulsa Dental
Designs For Vision, Inc.
Eastern Dentists Insurance Company
Gentle Dental Associates
Global Surgical Corp. *
Hu-Friedy *
Ivoclar Vivadent, Inc.
Lexi-Comp, Inc. *
Massachusetts Dental Society *
Oral-B Laboratories *
Patterson Dental Supply, Inc. *
Philips-Sonicare *
Procter & Gamble Company —
Makers of Crest Products *
Sullivan-Schein Dental *
SurgiTel (General Scientific Corp.) *
Ultradent Products, Inc.
United States Army Healthcare
United States Navy



Amelia Grabe DMD 05, co-chair of the Science Day Committee, cheers while Richard Rabbett, assistant director of administration, announces a raffle winner

* Contributor to Science Night Gala and raffle

night

Congratulations to the Winners!

Predoctoral Poster Presentation (tie)

- **Andrew Wightman** and **Judith Jones**. Department of General Dentistry and Periodontology and Oral Biology: "Does treatment of periodontal disease improve glycemic control in diabetes?"
- **Ming-Chi Yeh**, **A Kantarci**, **Y Ding**, **M Warbington** and **Thomas Van Dyke**. Department of Periodontology and Oral Biology: "Effect of advanced glycation end products on neutrophil chemotaxis"

Predoctoral Oral Presentation

- **Dominic Tam**, **A Kantarci** and **Thomas Van Dyke**. Department of Periodontology and Oral Biology: "Lipopolysaccharide from *Actinobacillus actinomycescomitans* JP2 activates peripheral blood neutrophils"

ADA Dentsply Award

- **Frank Schiano** and **Maria Kukuruzinska**. Department of Molecular and Cell Biology: "ALG7, E-cadherin and *cdc42* in the developing mouse submandibular gland"

Postdoctoral Poster Presentation

- **Khalid Zawawi**, **A Kantarci**, **I Iontcheva**, **S Amar** and **Thomas Van Dyke**. Department of Periodontology and Oral Biology: "Moesin mediated p38 and p44/42 MAPK-activation in LPS-stimulated macrophages"

Postdoctoral Oral Presentation

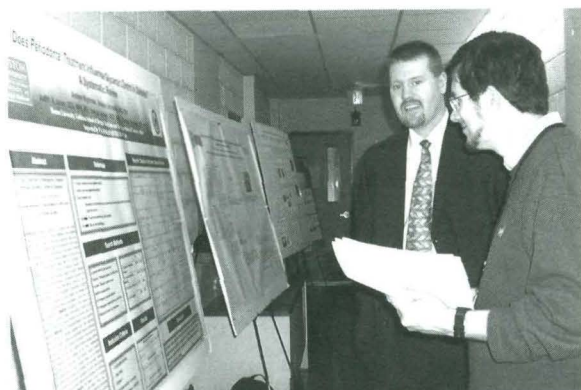
- **Xinyan Liu**, **T Olczak**, **HC Guo** and **Caroline Genco**. Department of Periodontology and Oral Biology: "Identification of essential amino acid residues of HmuR required for heme utilization in *porphyromonas gingivalis*"



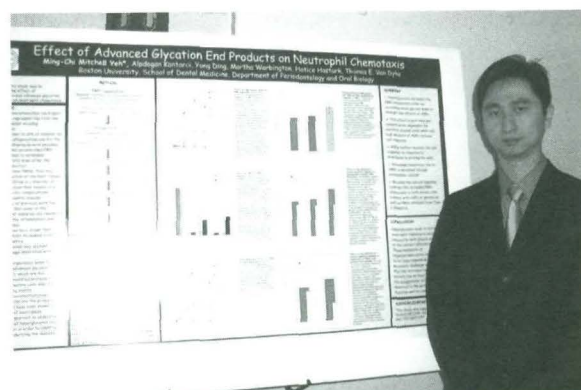
After dinner and the award presentations, students hit the dance floor at Science Night



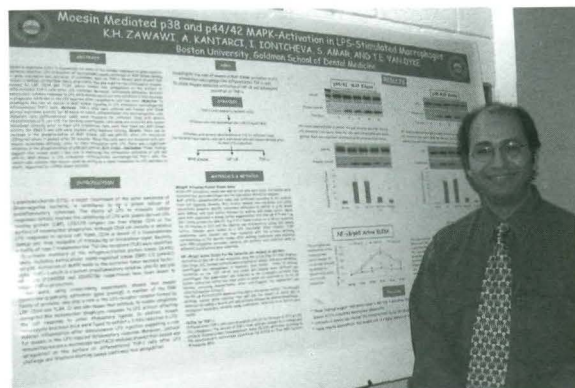
Science Day winners pose with Dean Spencer N. Frankl after receiving their awards: Khalid Zawawi DSc 04, Xinyan Liu PhD 04, Dominic Tam DMD 06, Dr. Frankl, Andrew Wightman DMD 04, Ming-Chi Yeh DMD 05, and Frank Schiano DMD 06



Andrew Wightman DMD 04, one of the predoctoral poster winners, with judge Dr. Miklós Sahin-Tóth



Ming-Chi Yeh DMD 05, one of the predoctoral poster winners



Khalid Zawawi DSc 04, postdoctoral poster winner

BUSDM's ASDA Group "Gives Kids a Smile"

In January 2004, BUSDM's American Student Dental Association (ASDA) students participated in the American Dental Association's first annual "Give Kids a Smile" community outreach program. Students conducted two community screenings at the Boys and Girls Clubs in South Boston and Roxbury, Massachusetts.

BUSDM students performed two separate presentations on toothbrushing and oral health education to children ages 6-8 and 9-12. They also presented an interactive program, involving the children in activities such as "shopping" for the healthiest and most teeth-friendly foods such as raisins, fruits, and vegetables. Some of the youngsters dressed up as teeth while other students learned how to brush properly and floss using oversized toothbrushes and string.

Student leaders screened close to 250 children at the neighborhood clubs. Children left the screening with new



Elisa Sin DMD 07 poses with a youngster at the South Boston "Give Kids a Smile" program.

toothbrushes, toothpaste, and a healthy appreciation for good oral health care.

Many thanks to the student volunteers: John Fulham DMD 06, Dave Blackburn DMD 06, Chris Kelson DMD 06, Liz Walker DMD 06, Riza Santos DMD 07, Sharokina Eshaghi DMD 04, Zeynab Barakat, DMD 06, Khurram Sheikh DMD 07, Josephine Lac PEDO 04, Rupal Karani DMD 04, Stephanie Battaglia DMD 06, Christina Banzon DMD 06, Meghna Dassani DMD 05,

Neetu Kainth DMD 06, Priya Acharya DMD 07, Ghazal Mahjoubi DMD 07, Pooja Panwar DMD 05, Nikita Vakil DMD 04, and Erik Reifentahl DMD 05.

In addition, David Blackburn DMD 06, one of the event's organizers, published an abstract of this community health care initiative in the program booklet for the American Dental Education Association's annual session on Student Excellence in Education and Service.

High Schoolers Learn About Oral Health

In March, high school students involved with BUSDM's partnership with the Boston Area Health Education Center filmed a promotional video at the school's Clinical Research Center. The Boston Area Health Education Center (BAHEC), administered by the Boston Public Health Commission, offers middle and high school students a variety of health career exploratory and health education programs. The program is designed to introduce young people to the world of health and encourage them to pursue a health profession in the medically underserved areas of Boston.

Students visit BUSDM twice a week as part of their After-School Internship Program. Dr. Hatice Hasturk, assistant professor of periodontology and oral biology, works with the students in the Clinical Research Center. "The students observe procedures, how to use the computer to enter data, how to use supplies, and they interact with other specialists such as periodontists and hygienists, to learn about their fields," says Dr. Hasturk. "It's a young population—they're brilliant, they like to get new information, and they ask excellent questions."

The video, filmed by Naomi Sanon and Angeline Capre of Madison Park Technical School and Joe Brea of Snowden International School, will be shown to other students in the program.



BAHEC student Joe Brea

Procter & Gamble Grant to BUSDM Largest in BU History

Boston University's Division of Corporate and Foundation Relations has announced that Procter & Gamble's grant of a patent to BUSDM, announced in 2003, is the largest corporate or foundation grant ever in the university's history.

Procter & Gamble's donation of its H2 Antagonist Technology will allow the school to research, commercialize, and reap future revenue—expected to be significant—from clinical applications of this technology.

The H2 Antagonist Technology blocks the effects of

histamine, enhancing the body's natural defense mechanisms in both gingivitis and periodontitis. With more research and FDA approval, this technology may lead to significant new ways for preventing and treating oral health diseases.

Procter & Gamble selected BUSDM as the recipient of this donation because of the school's strong track record in creating companies to develop new technologies in oral health. Dr. Thomas Van Dyke, director of the school's Clinical Research Center, was instrumental in securing this grant.

Service Recognition 2004

Congratulations to the following employees on completing 10 or 25 years of service at Boston University. They were honored at the university's annual service recognition dinner on March 25 in the George Sherman Union at Charles River Campus.

25 Years

- Stephen DuLong, Associate Dean for Clinical Services
- Paula Friedman, Associate Dean for Administration
- Thayer Scott, Instructor, Health Policy and Health Services Research

10 Years

- Joanne Beer, Manager, Clinical Administration
- Sharon Boyle, Administrative Assistant, Office of Extramural Programs
- David Cottrell, Chair, Department of Oral and Maxillofacial Surgery
- William Dixon, Equipment Technician, Dental Equipment Repair
- Gerard Dorato, Senior Dental Technician, Fixed Prosthodontics Laboratory
- Russell Giordano, Associate Professor of Restorative Sciences/Biomaterials; Director, Biomaterials
- Christopher Hughes, Chair, Department of Pediatric Dentistry
- Julie Lidano, Hygienist, Dental Health Center
- Paula Linskey, Manager, Dental Supply Store
- Steven Mollica, Clinical Instructor of General Dentistry
- Stephen Roberts, Assistant Clinical Professor General Dentistry
- Bruce Robinson, Assistant Clinical Professor of General Dentistry

A Patient's Thanks

Many patients who receive care at one of BUSDM's clinics thank their providers for the high quality of care. When Allyson Baughman, administrative assistant in the Office of Patient Services received the following letter, she wanted to share it with the entire community:

Dear Ms. Baughman,

I am writing because I want to bring attention to the excellent care I received from Valerie Nguyen DMD 04 at Boston University School of Dental Medicine. She is an exceptionally considerate individual who ensured that I was comfortable during every step of the procedure. Ms. Nguyen did a superb job in caring for me and worked hard to make certain that my dentures were finished before Christmas. I have no doubt that she will be an outstanding dental professional.

I have been a patient at the school since 1995 and have always received top-quality dental care. In today's world of often harried and impersonal health care, it is gratifying to know that the personal touch continues to be important in educating dentists at Boston University.

Sincerely,

Cliff Carrington
Chelsea, Massachusetts

Greetings from your new editor!

After seven years at the helm of BUSDM's Office of Communications, former editor Christine McDonald has decided to move on to new challenges. She and I both joined the school in 1997. Since then, we've shared many exciting developments at BUSDM—including the expansion of the school's physical space by 40% (from 127,400 to 178,000 square feet); the foundation of two new departments (the Department of Health Policy and Health Services Research, Department of Molecular and Cell Biology, and the Department of General Dentistry); the opening of new research facilities in the Evans Building and the Schilder Endodontic Research Center in the Center for Advanced Biomedical Research; the launch of a new PhD program in oral biology; the migration to digital textbooks; and the opening of the Simulation Learning Center. We have redesigned the website and moved from a paper bulletin to a web and CD version, seen seven classes graduate, and learned more than we ever expected about dental medicine.

While it is with sadness that I see her depart—we made such a great team—I am also excited to assume her leadership role. We face many continuing challenges, and I look forward to guiding the school's communications efforts into the future.

I know I speak not only for myself but also for Christine when I express deep gratitude to Dean Spencer N. Frankl for bringing us aboard and giving us both the opportunity to work with such fine people.

Mari Megias, communications specialist, Boston University School of Dental Medicine, 617/638-5147, megias@bu.edu.

what's up

May 14-16 Alumni Weekend. Alumni Office at 617/638-4891 or bafraser@bu.edu.

June 8 Blackstone Elementary School Field Trip

June 12 Asthma Games

June 19 Special Olympics, Special Smiles

September 13-14 Elders' Oral Health Care Summit.
Carolyn Wehler, 781/687-3106 or cwehler@bu.edu

July 1 Classes start for entering AEGD, dental public health (combined programs), endodontics, implantology, operative dentistry, oral surgery, orthodontics and dentofacial orthopedics, pediatric dentistry, and prosthodontics students

August 2 Classes start for first-year DMD and advanced standing I students

September 7 Classes start for entering dental public health (DScD), oral biology, and periodontology students.

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