

2002

Outlook: Boston University Goldman School of Dental Medicine: Spring 2002

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SPRING 2002

outlook

Boston University
Goldman School of Dental Medicine



The new laboratory in Evans offers BUSDM researchers close contact with SOM faculty.

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What's up

A School Without Walls: BUSDM Expands to Evans Building

In March 2002, the Department of Molecular and Cell Biology moved to 17,980 square feet of renovated space in the fourth floor of the Evans Building. The new space, which includes offices and a modern, open-floor-plan laboratory, is spacious and bright. More important, not only will the laboratory continue to train undergraduate and graduate dental students—it will also expand students' opportunities to interact with Ph.D. students of bioinformatics and the Graduate School of Medical Sciences. The move means the department will be next to basic and clinical research departments of the School of Medicine, further facilitating and expanding the exchange of ideas among faculty members from BUSDM and SOM.

(continued on next page)

"Our faculty already are in close contact—as part of training programs—with researchers in other areas at the School of Medicine," says Dr. Carlos Hirschberg, chair of the Department of Molecular and Cell Biology. "The new location will spur the exchange of exciting ideas among researchers."

The new laboratory features additional core facilities for tissue culture, warm and cold rooms, instrumentation rooms (including high-technology rooms with multiple electronic outlets), dark rooms, and fluorescent microscope rooms. Each of the 42 laboratory desks has high-speed computer outlets

for accessing the Internet. Also included in the new space are a multiuse conference room, where the department holds weekly, in-house seminars, and a reading lounge.

"The design maximizes flexible laboratory space to accommodate evolving needs of individual principal investigators," says Hirschberg. "The success of the final design is the result of teamwork among departmental faculty and staff, architects, constructors, BU facilities management, and key support from Dean Frankl."

This September, the school will hold a dedication ceremony for the new laboratory.

Rally for Mass Health

On February 4, BUSDM faculty, staff, and students boarded a bus and headed to the Massachusetts State House for a rally protesting proposed cuts in Mass Health. This state safety net for low-income patients provides critical funds for preventive dental care, including routine exams, cleanings, fillings, and root canals. The proposed new rules would cover only extractions.

More than 100 people attended the rally in the Great Hall, including colleagues from Forsyth, Tufts, and Harvard and state legislators who oppose the cuts. Dean Spencer Frankl opened the rally by affirming the importance of preventive care for the state's neediest residents, including the poor, the disabled, and the elderly.

Later, Mandy Louis DMD 02 emphasized that Mass Health patients often present with varying medical histories and conditions, and that only by treating such patients can students be trained to provide the best care regardless of socioeconomic or health status.

After the rally, the deans of Boston's three schools of dental medicine and the president of Forsyth met with a representative of Governor Jane Swift regarding the cuts. At press time, the cuts stand.



Mandy Louis DMD 02 addressing rally attendees.

Dr. Jones Becomes Chair of General Dentistry

On January 1, 2002, Dr. Judith Jones assumed the chair of the school's Department of General Dentistry. Jones joined BUSDM in 1990 as adjunct assistant professor of periodontology and oral biology. She most recently was associate professor in the Department of Health Policy and Health Services Research.

After receiving her DMD and MPH from the University of North Carolina at Chapel Hill, Jones completed a two-year general practice residency in hospital dentistry at UNC. She



Dr. Judith Jones

then served as a fellow in the joint VA Harvard Dentist Geriatric Fellowship Program at the Veterans' Administration Medical Centers (VAMC) in Boston and Bedford, MA. She continued working at the VAMC, Bedford (1985-present), where she was director of the Geriatric Dental Fellowship Program (1986-1992) and chief of the dental service (1994-1998). She holds an advanced research career development award in health services research from the U.S. Department of Veterans Affairs and is acting head of the outcomes section of the VA Center for Health Quality, Outcomes and Economic Research at the Bedford VAMC.

"The pace of change in dentistry and medicine is now very fast," says Jones. "I hope I can help DMD students learn to think critically and be prepared to integrate new technology and ideas into their practices as they mature both here at BU and after they graduate."

Dr. Cottrell Assumes Chair of OMFS

In January 2002, Dr. David Cottrell assumed the chair of the Department of Oral and Maxillofacial Surgery (OMFS). He takes over the position vacated by Dr. Donald Booth, who has stepped down from the chair after



Dr. David Cottrell

30 years but remains active as a professor and surgeon. Cottrell most recently was director of the school's OMFS surgical residency program.

Dr. Cottrell joined the Department of Oral and Maxillofacial Surgery in 1993. He is a fellow of the American Association of Oral and Maxillofacial Surgeons and a Diplomate of the American Board of Oral and Maxillofacial Surgery. He serves on state and national committees and has published more than 90 scientific articles, abstracts, and book chapters. His clinical interests include functional and esthetic maxillofacial reconstruction, dental implantology, temporomandibular joint reconstruction, and oral surgical treatment of disabled children and adults.

The advanced education program in OMFS was established in 1972 by Dr. Donald Booth. Today, the residency program is affiliated with three major Boston-area hospitals and serves more than 16,000 patients annually.

"It is an honor to lead a program that, through Dr. Booth's many years of guidance, enjoys a strong national reputation," says Cottrell. "I look forward to continuing the tradition of excellence."

Beyond the Genome

The Department of Periodontology and Oral Biology was one of four sponsors of a conference on the human genome at the Forsyth Institute. With Forsyth, Harvard, and Tufts Dental, BUSDM faculty presented the latest discoveries on the biology of host tissues and pathogens in oral infectious diseases.

Several BUSDM professors spoke about their research. Dr. Salomon Amar discussed genomic studies of periodontal ligament and bone formation in periodontal disease, Dr. Robert Troxler spoke about salivary mucins, and Dr. Carolyn Genco presented research on the connection between cardiovascular disease and the periodontal pathogen *Porphyromonas gingivalis*. In addition, BUSDM postdoctoral students presented posters on their research, including Heloisa Gusman DSc 00, Ji Li PhD 04, and Yao Yuan, who won second prize.

News from IT

Silkymail Makes Checking Email Away from BU a Breeze

It is now easier than ever to check your BU email account from any computer with Internet access. Simply go to <https://www.bu.edu/webmail/silkymail/> to try out this new web-based email client. For more information on Silkymail go to <http://www.bu.edu/pesc/email/remote/silkfaq.html>.

Latest Educational Technologies

- *CourseInfo*. This method for delivering course materials online was fully introduced in 2001. The IT staff helped faculty digitize their materials, including course schedules, syllabi, lecture notes, PowerPoint presentations, quizzes, and other class materials.
- *Tooth morphology software*. This interactive, stand-alone software teaches students the basic morphology of adult dentition.
- *IMPACT authoring software*. Faculty use this software to develop dental cases and share them with students for self-learning.
- *Clinical radiography software*. Students can study the topics consecutively or move freely among them to meet their own schedules and study habits.
- *Wireless Internet access*. To further enhance teaching and accessibility to network resources, wireless Internet access has been implemented in the classrooms. A wireless network card is included in the students' laptop kit. Students now can access online instructions in class without having to use any cables.

Electronic Bulletin

In 2001 the school's bulletin became available on CD-ROM and online (www.dentalschool.bu.edu/bulletin). This electronic bulletin comprises the content of the former paper bulletin plus video, a virtual tour of the SLC, and other interactive elements.

Resident Evaluation

IT introduced a web-based residents' evaluation system at the Dental Health Center on the seventh floor. The easy-to-use system, which is accessible from home, saves time because the program director no longer needs to distribute and collect paper surveys and the Office of Educational Research and Evaluation does not need to enter, analyze, and distribute data. Data are now instantly available to the director—and once the reviews are approved and released ("e-signed") by the director, faculty and residents can log in at any time to check them.

ASDA to Launch Prevention for Kids

The BUSDM chapter of the American Student Dental Association has initiated a program to educate parents of young infants and toddlers on how to prevent oral health diseases and how to provide adequate oral hygiene for infants. Dubbed "Prevention for Kids (P4K)," the program was created by Ariel Bales-Kogan DMD 03 and Negar Nasseirpour AS 02.

"Our goal is to target a population at a stage in which prevention can still be

implemented for children," says Bales-Kogan. "This year we are focusing on day care facilities."

Representatives of BUSDM's ASDA chapter now make presentations to day care centers throughout the Boston area. They provide the centers with a brochure they wrote with the help of Dara Cunnion DMD 99 PEDO 01, director of predoctoral pediatric dentistry, and Dr. Christopher Hughes, chair of the Department of Pediatric

Dentistry. Also, ASDA gives the centers a list of referral clinics for pediatric dental care.

"Dean Spencer N. Frankl was extremely positive about supporting P4K," says Bales-Kogan. "He has shown an enthusiastic willingness to provide financial support for the program."

P4K hopes to visit more than 20 day care centers this year.

BUSDM Student Attends AGD Meeting

The Mentoring Committee of the Massachusetts Academy of General Dentistry selected Chandan Advani DMD 04 to attend the Academy of General Dentistry annual meeting in New York City. A grant from the Kulzer Company covered the cost of his trip.

During the conference, Advani attended a hands-on session on bleaching and a lecture on alternative therapies for periodontal patients. "It was a great experience," he says. "I got a chance to make many contacts—and the exhibits were great. They gave me exposure to some of the up-and-coming technologies being introduced to the dental profession."

Advani also gained an appreciation of the importance of having an association that conveys the common beliefs and needs of general dentists to other parties, such as the government.



Chandan Advani DMD 04

BUSDM Finalist for Robert Wood Johnson Grant

The Robert Wood Johnson Foundation will be awarding a total of \$19,000,000 to dental schools across the nation. After receiving letters of intent from 42 schools, the foundation has winnowed the list to 22 schools, including BUSDM. The award will help support community-based dental education.

Dean Spencer N. Frankl is the principal investigator for the grant and the Department of Health Policy and Health Services Research is managing the final grant application. Ten schools will be awarded funds for community dentistry. The award will be announced in August 2002.

Giordano Awarded \$300,000 Grant

Dr. Russell Giordano, associate professor of biomaterials, restorative sciences, recently secured an equipment grant worth \$300,000 from Sirona for three CEREC 2 systems and from Sirona and Vident for research on the inLab dental laboratory system.

Worth more than \$65,000 each, a CEREC 2 ("Chairside Economical Restoration of Esthetic Ceramics") machine is a sophisticated CAD/CAM device that fabricates crowns, inlays, and onlays during a single

patient visit. It scans a tooth preparation then designs and mills a replacement. Patients treated with a CEREC 2 may avoid multiple trips to the dentist for impressions and temporary restorative devices.

Russell also received a grant from Sirona and Vident to conduct research and tests on another CAD/CAM system, inLab, which was developed for use in the dental laboratory. BUSDM is one of only three academic test sites in the United States.

in the media

Dean Spencer Frankl conducted an extensive interview on WBUR addressing the severity of the proposed cut in dental benefits to Mass Health recipients.

Gilberto Arciniegas spoke about women's and children's oral health on the Spanish-language La Mega Radio Talk Show. He is also participating with Mass Health in the Latino/Spanish media project for the newspaper *El Mundo*.

Elizabeth Krall, professor in the Department of Health Policy and Health Services Research, has been interviewed by numerous magazines for her article on smoking relapse rates.

research highlights

Claudia Abeijon

- Biosynthesis of Yeast Cell Wall Beta 1,6 Glucan Polymers (NIH/NIGMS, \$207,532)

Salomon Amar

- Salomon Amar, Role of LITAF in Inflammatory Processes (NIH/NIDCR, \$285,250)

Joseph Boffa

- Dental Feasibility Study (Rhode Island Foundation, \$5,000)

Laisheng Chou

- New England AIDS Education and Training Center (UMass-NIH/BHP, \$47,859)

Stephen DuLong

- Ryan White HIV/AIDS Dental Reimbursement Program (HRSA/BHP, \$555,408)

Spencer N. Frankl

- Chelsea School-Based Dental Center (UMass-Commonwealth of Mass., \$174,233)

Raul Garcia

- Northeast Center for Research to Reduce Oral Health Disparities (NIH/NIDCR, \$1,500,000)
- Oral Conditions and Systemic Health Outcomes (NIH/NIDCR, \$106,038)
- Program for Refugee Oral Health (Mass. Delta Dental, \$37,500)

Russell Giordano

- Development of Novel Ceramic-Resin Materials for Implant and Restorative Dentistry (Vident, \$64,423)
- Novel Ceramic-Resin Materials for Dental Restorations (Vident-Vita Zahnfabrik, \$93,357)

Dana Graves

- Mechanisms of Periodontal Destruction (NIH/NIDCR, \$293,138)

Michelle Henshaw

- Chelsea Sealant Program (Mass. Coalition for Oral Health, \$5,600)
- SEAL HI (MetroWest Community Health Care, \$43,623)

Carlos Hirschberg

- Membrane Topology and Biosynthesis of Glycosaminoglycans (NIH/NIGMS, \$295,742)

Elizabeth Krall

- Endodontic Inflammation and Cardiovascular Outcomes (UNC-NIH/NIDCR, \$53,000)

Maria Kukuruzinska

- Short-Term Training: Students in Health Professional Schools (NIH/NIDCR, \$19,984)

Cataldo Leone

- Short-Term Training for Minority and Women Dental Students (NIH/NIDCR, \$11,845 and \$69,930)

Frank Oppenheim

- Microbicidal Salivary Histidine-Rich Proteins (NIH/NIDCR, \$407,500)

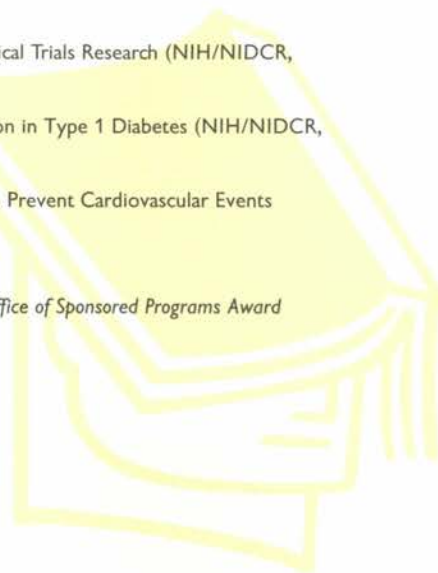
Philip Trackman

- Mechanisms of Mineralized Matrix Accumulation (NIH/NIDCR, \$215,930)

Thomas Van Dyke

- Boston Center for Clinical Trials Research (NIH/NIDCR, \$76,545)
- Periodontal Inflammation in Type 1 Diabetes (NIH/NIDCR, \$163,001)
- Periodontal Program to Prevent Cardiovascular Events (SUNY-NIH, \$157,726)

Source: Boston University Office of Sponsored Programs Award Details 8/1/01-1/31/02



hats off to...

Paula Friedman, associate dean for administration and professor of diagnostic sciences and patient services, has been voted president of the American Dental Education Association (ADEA). She assumes the presidency in March 2003. In her upcoming three years (as president-elect, president, and immediate past president), she will work with the ADEA leadership and membership to address three areas critical to dental education: 1) the cost of education, 2) student indebtedness, and 3) faculty recruitment, retention, and renewal. "I believe these three areas are interrelated and causative, starting with the first and resulting in the second and third," says Friedman. "There are many other issues to address in addition to these three central themes."



Paula Friedman

Celeste Kong PROS 84 has been chosen as president of the Massachusetts Chapter of the American College of Prosthodontists for this year.

Myra Brennan DMD 98 AEGD 99 PROS 02 received **second** prize for her case presentation at the Steve Gordon Essay contest held at Forsyth. Myra recently presented her work at the national meeting

of the American College of Prosthodontists in New Orleans.

George Haddad, information technology consultant to BUSDM, received a Presidential Citation award at the recent ADEA meeting for outstanding contributions to the American Dental Education Association and to the profession of dentistry. Introduced to the ADEA by Dr. Spencer N. Frankl, Haddad has provided the ADA with technological expertise and leadership that helped transform the association's application services into the benchmark for schools of the health professions.

Swati Kakade DMD 03 is this year's recipient of the Pierre Fauchard Academy Dental Student Scholarship Award. The \$1,500 scholarship is presented annually to a student who has demonstrated potential for developing into an outstanding leader in the dental profession. Kakade graduated from the University of Toronto in 1999. As a student at BUSDM she served as secretary of her class and is a member of the Science Night Organizing Committee. She also volunteers for various Outreach projects, in which she reaches out to the community with oral health screening and education, and tutors first-year students. The Pierre Fauchard Academy is dedicated to elevating the standards and practices of dentistry worldwide. Its goal is to educate dental professionals with the latest techniques and to share ideas to improve the practice of dentistry.

a big hand for...

Congratulations to the following BUSDM employees on their promotions!

Gilberto Arciniegas, to clinical instructor
Joann Beer, to clinical administrative manager
Maurita Castaneda, to senior administrative secretary
Eva Helmerhorst, to assistant professor
Zhimon Jacobson, to director of continuing education
Carolyn Mills, to clinical administrative manager
Sheila Scully, to clinical administrative manager
Jennifer Hernandez, to senior administrative secretary

KerriAnn Abbott, research coordinator, Molecular and Cell Biology
Gretchen Carney, administrative assistant, Molecular and Cell Biology
Ramon Gutierrez, patient coordinator, Patient Services
Carmen Aviles, dental assistant, Biomaterials/Restorative Sciences
Ishwar Bhatia, postdoctoral fellow, Oral and Maxillofacial Surgery
Vanessa Black, sterilization assistant, Central Sterilization
Paula Bono, receptionist, Health Policy and Health Services Research
Sarah Brecknock, program manager, Educational Research and Evaluation
Carrie Chen, dental assistant, Health Policy and Health Services Research
Christine Colby Sams, assistant clinical professor, General Dentistry
Okemia Credle, patient coordinator, Patient Services
Corinna Culler, clinical instructor, Health Policy and Health Services Research
Jennifer DeSantis, administrative assistant, Educational Research and Evaluation
Diane Devlin, dental hygienist project coordinator, Health Policy and Health Services Research
Nancy Dinicolo, financial coordinator, Clinical Research Center

Brian Holmes, patient coordinator, Patient Services
Daniel Hyacinthe, assistant to the registrar, Admissions and Student Services
Rajni Jain, research associate, Clinical Research Center
Judith Jones, chair, General Dentistry
Marycarmen Kunicki, program manager, Educational Research and Evaluation
Nayda Lewis, patient coordinator, Patient Services
Wendy Little, oral surgery assistant, Oral Surgery
Ana Karina Mascarenhas, associate professor, Health Policy and Health Services Research; director, Community Health Programs
Annette McPhie, administrative manager, Health Policy and Health Services Research
Carie Nelson, dental hygienist, Patient Services
Chikel Obi, sterilization assistant, Oral Diagnosis
Kelly Ogilvie, clinical research coordinator, Periodontology and Oral Biology
Debra Pan, assistant clinical professor, General Dentistry
Markos Raptis, research technician, Periodontology and Oral Biology
Linda Romero, dental assistant, Patient Services
Mary Rourke, dental hygienist coordinator, Health Policy and Health Services Research
Melinda Sanchez, patient coordinator, Patient Services
Litza Santiago, patient coordinator, Patient Services
Kallaya Wangpichit, postdoctoral fellow, Pediatric Dentistry

congratulations

Ms. Sheila M. Scully, Henry M. Goldman Award for Distinguished Service

This year's recipient of the Henry M. Goldman Award for Distinguished Service is Ms. Sheila Scully, clinic operations manager. The award is given annually to a member of the school's staff who has demonstrated an outstanding commitment to BUSDM.

Scully has been a member of the BUSDM family since 1967, when she entered the school's dental assistant training program. Her first position at the school was as a clinical dental assistant. After moving into the financial office in 1971 as an accounts maintenance clerk, she consistently demonstrated her commitment to the BUSDM mission with hard work and unflagging optimism. She was rewarded with several promotions, including advancements to cash operations supervisor, cash and insurance supervisor, clinic operations manager, and clinical administrative manager.

Scully's many responsibilities include managing the administrative, clinical, and support operations of the clinic. She confronts the challenging, diverse, and sometimes stressful aspects of her job with consistent aplomb, taking particular pride in developing a team of patient coordinators to help support the school's mission of providing outstanding health care services to the community.



Ms. Sheila Scully

Ms. Carole Green, Quarterly Award for Teamwork

Ms. Carole Green, a BUSDM employee since 1986, has been awarded the Quarterly Award for Teamwork. As senior administrative secretary in the Department of General Dentistry, Green works closely with more than 25 clinical faculty and staff to ensure that two key areas of the school—the fifth-floor clinic and the SLC—run as smoothly as possible.

Green fulfills her role with zeal, often under the pressure of tight deadlines. Her equanimity in the face of change and stress was never more evident than during the recent creation of the Department of General Dentistry. Even when situations become a little bumpy she diffused tension with her sense of humor then quickly moved on to get the job done.

As one faculty member says of Greene, "I have sincerely appreciated working alongside Carole these many years. She may not know this, but she has served as a good role model for me—she is a constant reminder that we are all playing on the same team."



Ms. Carole Green

Dr. Ruben Figueroa, Quarterly Award for Teamwork

Dr. Ruben Figueroa has received the Quarterly Award for Teamwork. Figueroa joined the school in 1999 as assistant professor of oral and maxillofacial surgery and soon was promoted to director of predoctoral education for oral and maxillofacial surgery.

As a skilled clinician and teacher, Figueroa makes an outstanding contribution to the education of BUSDM's predoctoral students. His desire to improve instruction has led him to devise innovative ways to teach using new technologies. By sharing his expertise with other faculty and staff, he has significantly enhanced the education of BUSDM's students.

Figueroa's patience and his ability to work well with many different people make him well deserving of this award.



Dr. Ruben Figueroa

Lost Boys at Home at BUSDM

Daniel Deng Ripo, Dominic Deng Aduong, Jacob Deng Mabil, and James Deng John have lived through more than most of us could comprehend. At very young ages they were wrenched from their homes in southern Sudan when war broke out in 1987. With just the clothes on their backs and without their parents or other family members, they were among the thousands of children who fled their burning villages toward Ethiopia. Many died from enemy soldiers, starvation, disease, drowning, or wild animals on the 1,000-mile journey.

They found safety in Ethiopia but that was not the end of their ordeal. When the Ethiopian government fell in 1991, the boys were sent back to Sudan only to find the fighting continued. This time, Daniel, Dominic, Jacob, James, and thousands of other children wandered to Kakuma Camp in Kenya.

Staying in the refugee camp forever was not an option and citizenship in Kenya was impossible, so the United Nations High Commissioner for Refugees stepped in and the United States agreed to become a resettlement site. Starting a year ago, 3,800 young Sudanese men—dubbed “the lost boys” after Peter Pan’s lost posse of orphans—began to resettle in America with refugee status. Many came to the Boston area with the help of various resettlement agencies such as International Rescue Committee, the nonprofit group that helped settle Daniel, Dominic, Jacob, and James in their new homes.

Urban life can be challenging—but the difficulties faced by these Sudanese men are almost incomprehensible.

Nothing is familiar. Watches and clocks—not roosters—tell time. Transportation is by buses and subways, not donkeys. They had never seen white people before. The enormity of the cultural adjustment was daunting. This is true for all aspects of the boys’ lives, including health and dental care.

Before arriving in the states, the boys had never used toothbrushes but instead relied on chewing sticks (a method shown to be effective in a recent issue of the *Journal of Periodontal Research*). The mere idea that a profession existed solely for oral health bemused the young men. Compounding their difficulties was the cultural practice in Sudan of pulling the six permanent, lower anterior teeth around age seven in order to make teenagers more attractive to members of the opposite sex. Consequently, the young men are in need of significant prosthetic and orthodontic treatment.

“I had never heard of dentists,” says James. “One of the best days was when I met Susan Cote,” a clinical instructor in the Department of Health Policy and Health Services Research who is working closely with the International Rescue Committee through the Program for Refugee Oral Health. “Susan took me to the seventh floor [the Dental Health Center at 100 East Newton Street] and I had my teeth cleaned.” She is named “math de lec” by the Sudanese (“friend of teeth” in Dinka).

The idea of prostrating oneself in a



James Deng with Dr. John Cassis

dental chair, with strange machinery hovering above, was frightening at first. But with the reassurance of Susan and the dental staff, James made it through his first dental appointment and has come to love the dentist. “It is a really great job,” he says. “I would like to be a dentist someday.”

With the proposed budget cuts to MassHealth adult dental services, the young men will face more obstacles to receiving necessary treatment. “It is unfortunate that the governor is looking to cut back on this essential service,” says Cote. “These extraordinary young men have been through more than any of us can imagine. But amidst it all, they have acquired a new language, are employed, are taking classes, and are learning to support themselves—but they still need a lot of assistance.”

If you are interested in mentoring or volunteering, contact Susan Cote at 617/638-6383 or scote@bu.edu.

BUSDM Establishes the Northeast Center for Research to Reduce Oral Health Disparities

BUSDM has received an \$11 million award from the National Institutes of Health (NIH) to establish the Northeast Center for Research to Reduce Oral Health Disparities.

The National Institute of Dental and Craniofacial Research (NIDCR) at the NIH announced that it is stepping up the effort to address disparities in our nation's health by funding five new Centers for Research to Reduce Oral Health Disparities. The centers, which are the first step in implementing the institute's strategic plan for eradicating health disparities (http://www.nidcr.nih.gov/research/health_disp.asp), will identify factors contributing to oral health disparities and develop and test strategies for eliminating them. Each center also will provide training and career development opportunities for scientists in underrepresented groups and others interested in establishing careers in oral health disparities research.

BUSDM leads this effort in the Northeast Center for Research to Reduce Oral Health Disparities in partnership with The Forsyth Institute, Boston Medical Center, the Boston Public Health

Commission, Children's National Medical Center in Washington, DC, and Harvard University. Despite progress in reducing dental caries, tooth decay remains one of the most common diseases of childhood, particularly among poor children and children from minority racial and ethnic groups. The Northeast Center for Research to Reduce Oral Health Disparities, headed by Dr. Raul Garcia, chair of BUSDM's Department of Health Policy and Health Services Research, will focus on reducing early childhood caries.

"We will examine the effects of tooth decay on the quality of life of low-income African American, Asian, Hispanic, and white children, and also determine whether severe dental infections can slow growth," said Garcia. "We will also determine the best ways to involve pediatricians in improving children's oral health."

The Northeast Center will conduct studies of children and caregivers from various racial and ethnic groups to learn more about the oral microbes that trigger tooth decay and how they are transmitted.



Leila Rosenthal receives the 2002 John Griffin Technician of the Year Award



Linda Massod DMD 91 with Celeste Kong PROS 84 at the BUSDM Yankee reception

Yankee Dental Congress 2002

With four booths, BUSDM was well represented at this year's Yankee Dental Congress on February 1-3. The Division of Continuing Education, the Alumni Board, and the Dental Career Network all displayed information and fielded questions about their programs. BUSDM also participated in the Oral Cancer Partnership (OCP) educational booth with other members of the OCP (Forsyth, Harvard, and Tufts). After the exhibitions and lectures on Friday, more than 500 BUSDM alumni, faculty, and staff socialized at the school's annual cocktail party at the Sheraton Hotel.

Six institutions from the Massachusetts Dental Society participated at the Yankee student table clinic presentations this year. Esther Tam DMD 03 received second place for her research on environmental regulations of lactate permease operon under different pH conditions. Tam has been participating in BUSDM's Predoctoral Research Program since her second year; on Clinic and Research Day 2001 (now Science Day), she won first prize for her poster and went on to represent the school at the ADA Dentsply Student Clinician Program in Kansas City, Missouri. She is also a New England's regional representative to the National Student Research Group.

In addition, Leila Rosenthal, associate clinical professor of general dentistry, was awarded the 2002 John Griffin Technician of the Year Award. Rosenthal directs the predoctoral removable prosthodontic laboratory.

Science Day and Night 2002

This year's annual Science Day (formerly known as Clinic Day) was held on Thursday, March 14. Organized by Dr. Maria Kukuruzinska, director of BUSDM's Predoctoral Research Program, and the class of 2003, Science Day showcases student research via poster and oral presentations. The keynote address was given by Dr. Sharon Gordon, director of the Office of Education at the National Institute of Dental and Craniofacial Research. In addition, 26 vendors were on hand throughout the day to discuss the latest dental products and technology with students, faculty, and staff. The Science Day Gala Dinner was held on Friday, March 15, at the Seaport Hotel.

Oral Presentations

Predoctoral

Michael Dudi-Fish and Raul Garcia, Long Term Effects of
Unerrupted Third Molars on Adjacent Second Molars

Henry Hsue and Dana Graves, Diabetes Alters the
Inflammatory Response to Porphyromonas Gingivalis

Postdoctoral

Heloisa Gusman and Frank Oppenheim, Circadian Rhythm of
Histatin Concentrations in Stimulated Glandular Secretions

Yong Ding and Thomas Van Dyke, Superoxide Production of
Monocytes in Diabetic Patients with or without Periodontitis

Yada Chaiyabutr and Russell Giordano, The Effect of Powder
Particle Size on Mechanical Properties of Infused Alumina

Iveta Ioncheva and Thomas Van Dyke, LPS Receptors, Is
Moesin One of Them?

Basem M. Abuzenada, Richard Pober, and Russell Giordano,
Wear of Restorative Dental Materials

Sami Farsi, Richard Pober, and Russell Giordano, Effect of
Thermal Cycling on the Flexural Strength of Dental
Restorative Materials

Ronaldo Santana, Philip Trackman, Salomon Amar, and Dana
Graves, Reduced Osteogenesis in Diabetes Mellitus Type I.
Role of AGE-RAGE Interactions

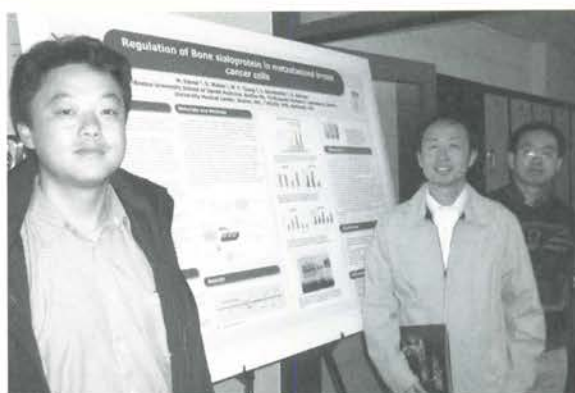
Yuan Yao and Frank Oppenheim, Identification of
Components in the Acquired Enamel Pellicle and Whole
Saliva Using Novel Proteomics Approaches

Kallaya Wangpichit, Nadarajah Ganeshkumar, and Christopher
Hughes, Identification of Genes Coding for Immunogenic
Proteins of Bacteriodes Forsythus

Ghadah Malki, Nadarajah Ganeshkumar, and Christopher
Hughes, Cloning of Glycosidases from Bacteriodes Forsythus



Maria Kukuruzinska with guest speaker Sharon Gordon



He Hongbing, visiting scholar; Weicheng Wu, research associate;
and Huafei Lu, research fellow, stand with Mohammad Kamal's
winning poster



Michael Dudi-Fish presents his research

Poster Presentations

Predoctoral

Katherine Morin and Michelle Henshaw, Oral Cancer Screening in Retired Labor Workers

Sang Jin Lee, Hector Lucero, and Phillips Robbins, Chitin Synthase III: A Membrane Protein Riding on Rafts to the Cell Surfaces

Ayesha Rahman and Maria Kukuruzinska, The ALG7 Gene Controls Salivary Cell Proliferation by Affecting the Activities of E-cadherin and Cdc42 RhoGTPase in the Developing Mouse SMG

Pejman Khosravian, Alp Kantarci, and Thomas Van Dyke, Effects of Truncated IL-8 on Neutrophils

Chun-Kuei Chen, Paula Magnelli, and Claudia Abeijon, New Studies of Cell Wall β 1, 6 Glucan Mutants in Yeast

Arash Asil, Alp Kantarci, and Thomas Van Dyke, The Effect of IL-8-T on PMN Superoxide Production

Mohammad Kamal and Georges Barnes, The Regulation of Bone Sialoprotein in Metastasizing Breast Cancer Cells to Bone

Postdoctoral

Ana Belen Herrero and Claudia Abeijon, The Golgi GDPase of the Fungal Pathogen *Candida Albicans* Affects Morphogenesis, Glycosylation and Cell Wall Properties

Xiaozhe Han and Salomon Amar, Analysis of Genes Differentially Expressed in Periodontal Ligament Fibroblasts Versus Gingival Fibroblasts

Lei Xu and Philip Trackman, The Presence and Activity of RAGE (Receptor of Advanced Glycation End Products) in Osteoblastic Cells

Ji Li and Frank Oppenheim, Monoclonal Antibodies against the Components of the Acquired Enamel Pellicle

Kemthong Mitrakul, Nadarajah Ganeshkumar, and Christopher Hughes, Characterization of a Biofilm-Defective Mutant of *Streptococcus Gordonii* Using Tn917-lac Mutagenesis

Sarinthron Tankunnasombut, Nadarajah Ganeshkumar, and Christopher Hughes, Expression of Hemolytic Activity of *Bacteroides Forsythus*

Faisal Al Sineedi, Nadarajah Ganeshkumar, and Christopher Hughes, Cloning of a Tetracycline Resistance Gene from *Veillonella Atypica* PK1910

science day winners

Oral Presentations

Predoctoral

Henry Hsue, Diabetes Alters the Inflammatory Response to *Porphyromonas Gingivalis*

Postdoctoral

Yong Ding, Superoxide Production of Monocytes in Diabetic Patients with or without Periodontitis.

Poster Presentations

Predoctoral (tie)

Mohammad Kamal, The Regulation of Bone Sialoprotein in Metastasizing Breast Cancer Cells to Bone.

Chun-Kuei Chen, New Studies of Cell Wall β 1, 6 Glucan Mutants in Yeast. Kamal also received the ADA/Dentsply Award.

Postdoctoral

Ana Belen Herrero, The Golgi GDPase of the Fungal Pathogen *Candida Albicans* Affects Morphogenesis, Glycosylation and Cell Wall Properties.



Congratulations to Science Day winners (left to right) Yong Ding, Mohammad Kamal, Henry Hsue, Chun-Kuei Chen, and Ana Belen Herrero

what's up

thoughts from the editor

April 17, 2002 Alumni Club of Greater New York continuing education dinner series with Dr. James Rynar DMD 80 PERIO 82

May 17-18, 2002 Alumni Weekend highlighting the classes of 1977, 1982, 1987, 1992, 1997

May 13-18, 2002 Implantology Symposium

May 29, 2002 Alumni Club of Greater New York Celebrate Summer Cocktail Mix and Mingle

September 21 and 22, 2002 Henry M. Goldman Symposium: The Future of Dentistry

For more information on any of these events, contact the Office of External Affairs at 617/638-4732, kreynold@bu.edu, or visit <http://www.dentalschool.bu.edu/alumni>

We all know how easy it is to get caught up in our day-to-day responsibilities and demands of our jobs; we are all guilty of it at some point. With this in mind, my colleagues and I in the Office of External Affairs take advantage of every opportunity to meet and mingle with the students of BUSDM. We take great pride and pleasure in our charge of promoting the school, its programs, its research, and other attributes—but most of all we enjoy the time we spend with the students.

Science Day and the Science Day Dinner are events we look forward to each year because they are a chance for us—and the rest of the school community—to learn about the research efforts of our students. I know I speak on behalf of all my colleagues when I say we are truly impressed and oftentimes in awe of the collective intelligence and scientific expertise displayed by BUSDM students. Our most sincere congratulations to all the Science Day presenters.

We remain committed to being a resource for all the BUSDM community and look forward to continuing to promote the excellence that is BUSDM.

Christine McDonald, director of communications, Boston University School of Dental Medicine, 617/638-4892, cmcdon@bu.edu.

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