

UNIVERSITY OF MINNESOTA

Dentistry

FOR ALUMNI OF THE SCHOOL OF DENTISTRY
SPRING 2011



Hard Science

Faculty who demonstrate why bone biology research is one of the strengths of the School of Dentistry.

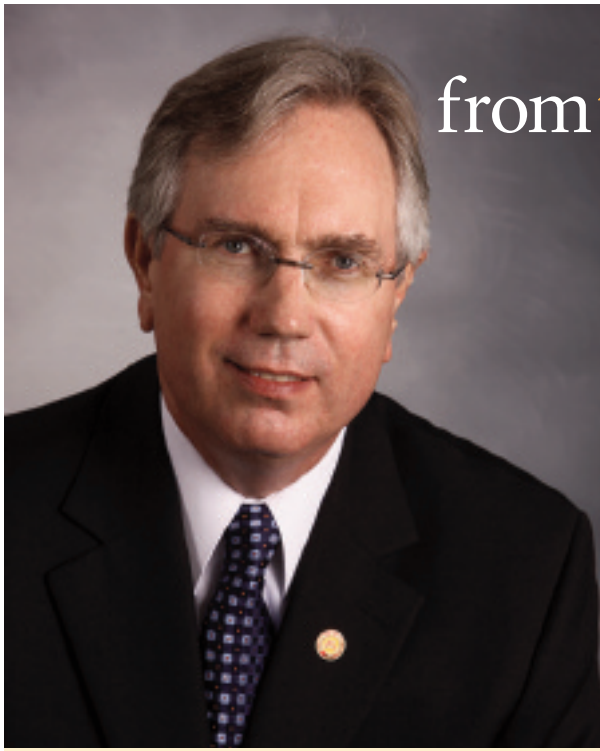


PHOTO BY TIM RUMMELHOFF

from the Dean

Dear Colleagues,

When I learned that *Dentistry* magazine was going to highlight women in dental education, I couldn't wait to get a copy. At our national deans' meetings, we talk about the growing number of women joining the ranks of dental school faculty, but I hadn't recalled any school writing about the trend in their magazine. We may be among the first, if not the first and likely the best story on the topic. I hope you find the insights, photos and comments as interesting as I did.

The cover of this issue is something special, too. It shows three of our faculty—a basic scientist, a surgeon and a prosthodontist—who are interested in bone biology. Each, in his own way and in collaboration with others, searches for solutions to problems related to bone that affect our patients. From genetic anomalies, to osteonecrosis, to implant failures—these faculty are on a mission. This is also a must-read story.

In the front pages of this issue, you'll find a collection of "mini articles" intended to grab your attention so that you'll spend time learning all you can about what's new and exciting in the School of Dentistry. Awards and achievements of alumni, dental groups and students take center stage here. Of added interest is the announcement that Dr. Ray Gist, the president of the American Dental Association, will be our 2011 commencement speaker. We'll highlight his contribution to this special day for our students on our website and in the fall issue of the magazine—keep your eyes open for follow-up reports!

We also include news of our alumni, including tributes to those who passed away during the last six months. Among them are two long-time faculty in the school who many likely had as instructors: Jim Jensen and Les Martins. To all the families, we extend our condolences and recognize the multitude of ways their loved ones contributed to our profession and to their communities.

As part of our pledge to keep you updated on our dental therapy program, we include a profile of a student from the Class of 2011. I was impressed the day I met Brandi and have grown to respect her more and more as each year passes.

You also can learn a lot about our School of Dentistry from our *Community Report*, which we publish each year in the spring issue. This report on our finances includes insights into our revenue sources and what's been done to balance our budget during these challenging economic times. Note that the school's support from the state, like all other schools and colleges at the University of Minnesota, continues to decline. Also note the pages and pages of names of donors who helped make this past year better than it otherwise would have been. Our dependence on their—and your—generosity to provide students and faculty "the extras" will be ever-increasing. We are all grateful to those who made contributions last year, and will continue to find new ways to share information about how those funds help us to maintain our competitive edge.

In the *School News* section, you'll learn that our students have a new student commons—aka the Retromolar Pad—in the largest space the school has acquired since Moos Tower was built in 1974. And you will meet two of our first-year dental students who were selected to spend this summer at the National Institutes for Health in Bethesda, Maryland. What a great opportunity for them and a credit to the faculty who were their mentors this past year. The section also features news of faculty appointments, the hiring of an associate dean for clinic administration and patient care, and the launch of our newest outreach clinic. All these initiatives will impact the school for years to come.

Finally, please consider our alumni president's invitation to attend the annual Dean's Reception at the Star of the North Meeting. This annual event, a 44-year tradition, welcomes our alumni and kicks off the annual Star of the North Meeting by recognizing two of our graduates (page 20) and one of our star faculty members. It's a chance for us to let people know what's important to us. Please join us and celebrate with the classmates, friends and families of our distinguished awardees.

All the very best,

PATRICK M. LLOYD

Dean

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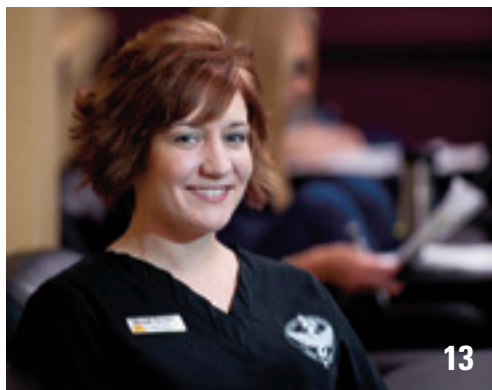


PHOTO BY SCOTT STREBLE

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PHOTO BY SCOTT STREBLE

UNIVERSITY OF MINNESOTA

School of Dentistry

Driven to DiscoverSM

The University's mission, carried out on multiple campuses and throughout the state, is threefold: research and discovery, teaching and learning, and outreach and public service.

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News Bites

UMAA Honors School of Dentistry Volunteers

The University of Minnesota Alumni Association (UMAA) honored its outstanding alumni, volunteers, groups and programs at a celebratory event held September 29, 2010, at the McNamara Alumni Center. School of Dentistry volunteers and alumni received three awards.

Joyce Rude Johnson accepted the association's highest honor, the prestigious *Alumni Service Award*, in recognition



Joyce Johnson

of more than four decades of outstanding volunteer service to the School of Dentistry. In presenting the award, University of Minnesota Regent Steven Hunter heralded Johnson as a passionate ambassador for the dental school's Program in Dental Hygiene. He specifically noted her role as founding member and chair for nine years of the 1919 Society, an alumni fundraising board responsible for securing support for student scholarships, educational and clinical technology, and graduate education in the Division of Dental Hygiene.

"Despite her active involvement with numerous professional organizations in her field," he said, "she also made time to return to the University to serve on the dental school's 2000x2000x2000 Endowment Campaign Steering Committee (1998-08), on the Continuing Education Advisory Committee (1995-97), and on the Dean's Advisory Council (1992-96). Most importantly, she remained an educator both on campus and in her field, working tirelessly to promote the dental hygiene profession and the University of Minnesota."

She was also a non-stipend faculty member for four years, and returns often to the dental school to address public health topics or speak to current students about the dental hygiene profession. In 1998, she was recognized by fellow alumni of the School of Dentistry with the dental school's Distinguished Dental Hygiene Alumna Award.

Johnson received her degree in dental hygiene from the University of Minnesota School of Dentistry in 1967. After practicing for many years, she returned to the program in 1983 to complete her bachelor's degree in dental hygiene with an emphasis in public health.

Also recognized at the event was fourth-year dental student **Jeff Remakel** who received the *UMAA Student Volunteer*

ADA President to Deliver 2011 Commencement Address



Ray Gist

American Dental Association President Ray Gist will deliver the commencement address at graduation ceremonies on May 13, 2011.

The association's first African American president assumed leadership of the 157,000-member dental organization in October 2010.

Commencement ceremonies will be held at 3:00 p.m. in Mariucci Arena on the East Bank campus of the University of Minnesota. Tickets are required.

of the Year Award. A consummate volunteer leader, Remakel received the award for his involvement in student governance and education, and as a student ambassador to the community. He was president of his class for all four years of dental school, vice president of the School of Dentistry Student Council, and a member of the dental school's



Jeff Remakel

Education Policy Committee (2007-11). He also played an integral role as a student representative on the dental school's Homecoming Planning Committee, strategizing participation opportunities for students and alumni and helping to reinvent the Homecoming experience for School of Dentistry students, staff, faculty and alumni.

The School of Dentistry Alumni Society received the *Program Extraordinaire Award* for its co-sponsorship of the dental school's "Clinical Grand Rounds," a series of professional development courses that provides an opportunity for alumni, students, and professionals to come together to discuss diagnosis and treatment planning of complex cases.

The School of Dentistry-sponsored *Workshop for Future Employers of Dental Therapists* attracted more than 60 participants on January 14. The online video of the workshop generated 1,100 hits in the first week. Watch the video and download the handouts at z.umn.edu/dtworkshop.

School of Dentistry Students Provide Free Dental Care on Give Kids a Smile Day

The Tooth Fairy made a rare daytime appearance at the University of Minnesota on Saturday, February 5, when she dropped by to visit with some of the 173 children on-hand to receive free dental care in the School of Dentistry's 27-chair pediatric dental clinic. Free dental services were provided as part of "Give Kids a Smile Day," a national event held annually to call attention to the growing number of children from low-income households who cannot access dental services. The School of Dentistry's student-coordinated event drew children and parents from throughout the Twin Cities to the school's Moos Tower clinic.

Each child received radiographs, an examination and treatment plan, plus emergency and some restorative care prioritized to address the most critical needs first. Routine and specialty dental services included fillings, endodontic procedures, cleanings, extractions, fluoride treatments, stainless steel crowns and the placement of dental sealants. The dental school provided more than \$122,000 of free dental care at the one-day event.



PHOTO BY TIM RUMMELHOFF

Dentistry's most famous ambassador and friend at Give Kids a Smile Day 2011.



(L to R): Dental students Eva Lau and Aaron Bumann (second-year); Aruna Rao and Adam Swingdorf (third-year); Katie Divine (second-year); Kirby Johnson and Megan Kack (first-year); and Hamid Khanjari (fourth-year.)

School of Dentistry Students Continue to Lead by Example

A contingent of eight students represented the University of Minnesota at the 2011 Annual Session of the American Student Dental Association (ASDA) in Anaheim, California, in November. The Minnesota chapter accepted the 2011 *Ideal ASDA in Advocacy Award* and an *Honorable Mention for Involvement with Predental Membership*.

Four Minnesota students also hold ASDA leadership positions for the 2011-12 academic year. Aruna Rao is vice chair of the Legislative Grassroots Network, Katie Divine is contributing editor, Megan Kack is the tripartite relations extern, and Aaron Bumann is the western regional legislative coordinator.

Hard Science

Faculty who demonstrate why bone biology research is one of the strengths of the School of Dentistry.

BY ALLISON CAMPBELL JENSEN

Scientific research has advanced rapidly during the 123-year history of the School of Dentistry. Research in orthodontia began the year the first class entered: 1888. By the mid-1890s, alum and faculty member Oscar A. Weiss was investigating the effect of certain chemicals on oral tissues. At about the same time, George S. Monson began his famed occlusion research while on the faculty. Alfred Owre, dean of the school from 1905 to 1926, researched dental amalgams, patenting a successful one in 1908.

By the late 1930s, work by Wallace Armstrong and others led to a better understanding of dental caries and of fluoride's role in preventing them. In the years since, faculty at the school have developed new knowledge in biochemistry, physiology, oral pathology, genetics, oral biology, biomaterials, and more.

Today, the School of Dentistry has an emerging research strength in bone biology. "From stem cells to the replacement of teeth with implants late in life, we have bone-related research that spans a lifetime," says Sven-Ulrik Gorr, associate dean for research. Bone biology as an area of research strength, Gorr adds, takes place in several research labs and clinics within the dental school and offers potential for expanded interdisciplinary and interprofessional collaboration. For

example, stem cell researcher and Assistant Professor Mohammad Islam (Department of Diagnostic and Biological Sciences), who investigates the functions of osteoblasts and osteoclasts in bone and blood formation, has collaborated with physician-scientist Dan Kaufman of the U's Stem Cell Institute.

"One of the things I'm always interested in and excited about is how our work has possibilities for interactions across the University, with other schools,

"We're always looking at how we can build on the expertise we have here and draw on expertise from other areas to make something new and exciting happen."

— SVEN-ULRIK GORR
ASSOCIATE DEAN FOR RESEARCH

and outside the University," Gorr says. "We're always looking at how we can build on the expertise we have here and draw on expertise from other areas to make something new and exciting happen."

Dental school faculty researchers engage in active collaborations with their colleagues at the University and clinicians in the community to improve the future

for patients. Among those leading major bone-biology research projects are Wook-Jin Seong, David Basi, and Raj Gopalakrishnan.

Improving Care for Implant Complications

In a sense, dental implants have not been around very long—only about 30 years in North America, says Seong. As dental implants have been shown to be effective and safe, he says, more and more people choose them to replace missing teeth. To his research, he brings doctor of dental surgery credentials from Seoul National University's dental school and the University of Minnesota, where he completed a residency in prosthodontics in 1999, and, in 2006, earned his doctorate in oral biology and biomedical engineering.

Now an assistant professor in the dental school's Division of Prosthodontics, Seong foresees problems as some dental implant patients today are only in their 20s or 30s—and might live to be 100 years old. "In 70 years, we know that the bone can recede," Seong says. In addition, patients may experience complications or even implant failure from an infection. He says: "The main cause of complications is gum disease around the implant."

The current standard of care for implant complications, which includes open flap surgery and implant surface detoxification (with or without bone graft and systemic antibiotics treatment), is not

as successful as he believes it should be. Only about 50 percent of those treated recover well. “Even though failures and complications are not that much percentage-wise,” he says, “the numbers are going to increase with the numbers of implants being placed.” About three years ago, he started to seek a solution for this increasingly important issue.

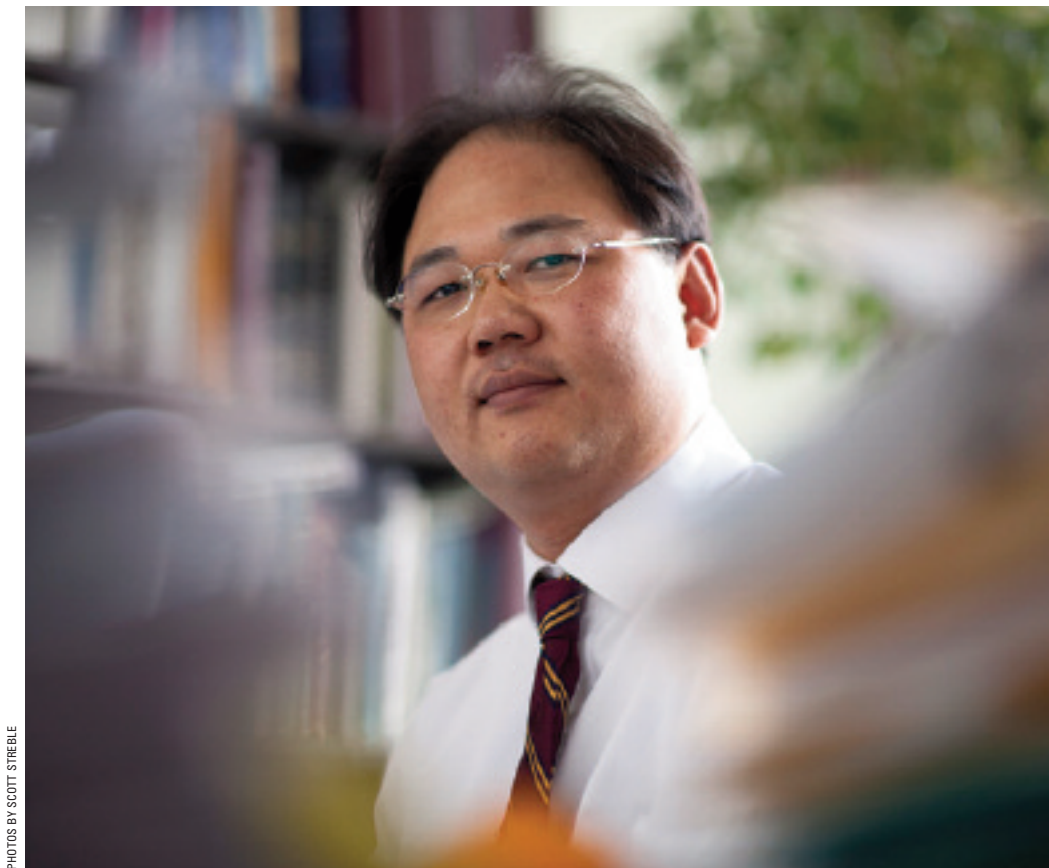
“Even though [implant] failures and complications are not that much percentage wise ... the numbers are going to increase with the numbers of implants being placed.”

— WOOK-JIN SEONG, ASSISTANT PROFESSOR,
DIVISION OF PROSTHODONTICS

After examining patients and reviewing journal articles, Seong began developing a cement that could repair damaged bone around an implant post and potentially rescue a threatened implant. He started testing his product with a small animal model. After the dental implant cement proved to be successful, he sent the data to the U.S. Food and Drug Administration, seeking approval to do clinical trials. The course of science does not always run smoothly, however; the FDA asked him to test the product a second time, in a more complicated animal model. At the time of writing, these experiments looked promising.

The next step, Seong says, will be to test the results using the artificial mouth invented by Faculty Emeritus William Douglas and Associate Professor Ralph DeLong of the dental school’s Minnesota Dental Research Center for Biomechanics and Biomaterials. Representing another area of research strength for the school, this center has collaborated since the early 1980s with 3M’s Dental Products Division, Materials Testing Systems, and Foundation.

The artificial mouth, affectionately known as ART, is a system that mechanically and physiologically chews the same way a human does, reproducing both the force of chewing and the contact between the teeth. ART can simulate a year’s worth of chewing in a 24-hour cycle, Seong says.



PHOTOS BY SCOTT STREBLE

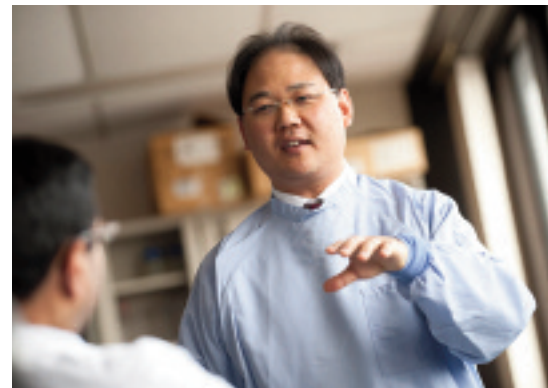
Wook-Jin Seong

After submitting new results, he hopes the FDA will approve an investigational device exemption for his dental implant bone cement. Then he will conduct a clinical trial in human patients.

Even if all goes as he hopes, Seong expects this cement to be a last-resort solution. The FDA, he says, will label it for limited use only in serious complications. For those patients in need, however, this cement could be an implant saver.

Investigating Theories of Jaw Bone Death

Surprisingly, bisphosphonates—drugs used to build up bone in the body for those suffering from osteoporosis—can, in a few people, cause death of jaw bone. The long-term implications are significant. “The drug seems to stay in your body for a very long time,” says David Basi, associate professor in the Division of Oral and Maxillofacial Surgery. “Its half-life is between 10 and 20 years. So if you stop taking it today, 10 years from now, half of the drug could still be in your body.”



Basi saw his first patient with bisphosphonate-related jaw necrosis in 2005. “The really interesting question is: Why the jaws?” Basi says. “There are a lot of theories but there is very little data to support any of them.”

As an oral surgeon also trained in basic science, he figured he would bring to this problem sophisticated techniques of tissue analysis, down to the level of proteins and genetic material.

First, however, Basi and his colleagues had to identify affected patients. While bisphosphonates are often prescribed to treat thinning bones, this necrosis complication is not common. It occurs more often in those who take the drugs in ☞



PHOTOS BY SCOTT STREBLE



David Basi

the more potent intravenous form rather than the milder oral form. Basi and his team sent word to the practice community that they were seeking patients with this complication and nearly 50 were referred to them. “The school served as a resource for practitioners who really didn’t know how to treat these patients,” Basi says. With sophisticated research facilities and time dedicated to research, Basi and his colleagues seek to increase understanding of the disease so as to improve treatments.

The researchers experimented with a regimen using hyperbaric oxygen therapy. While that therapy did not prove helpful, one aspect of the treatment did help, Basi says: “Everybody [in whom] we

chipped away the dead bone got better.” More importantly, he learned about the progression of this disease as he treated individual patients over time.

“The school served as a resource for practitioners who really didn’t know how to treat these patients.”

— DAVID BASI, ASSOCIATE PROFESSOR,
DIVISION OF ORAL AND MAXILLOFACIAL SURGERY

The next stage of research for him is to challenge those who assert that tooth extraction causes the jaw necrosis. He says: “The next few years should be very fruitful.”

Inquiring into the Molecular Foundations of Bone

One of Basi’s close research collaborators on the jaw bone necrosis project is Associate Professor Raj Gopalakrishnan in the Division of Oral and Maxillofacial

Pathology. Gopalakrishnan earned his bachelor of dental surgery degree from the University of Madras in Chennai, India, and completed both a residency in oral and maxillofacial pathology and a doctorate in pathology at Ohio State University. He did a post-doctoral fellowship at the University of Michigan and joined the School of Dentistry faculty in 2002. Recently, his team received funding from the National Institutes of Health for a clinical study to examine whether periodontal disease is a risk factor in the development of bisphosphonate-related necrosis in the jaw.

“We are a basic science lab that has started doing some clinical research in bone biology,” Gopalakrishnan says. “I think this combination is very important for us as it allows us to combine our expertise in both areas.”

For several years, Gopalakrishnan has been collaborating on a research project with Anna Petryk, a physician-researcher in the Medical School Department of Pediatrics, and with Kim Carpenter Mansky, an assistant professor and bone biology researcher in the dental school’s Division of Orthodontics, and Eric Jensen, research assistant professor in the dental school’s Department of Diagnostic and Biological Sciences. They are investigating at the molecular level how the protein called twisted gastrulation interacts with bone morphogenetic proteins (BMPs) in the regulation of bone formation and remodeling.

“BMPs are used clinically in orthopedics and dentistry to regenerate bone,” Gopalakrishnan says, for example in spinal fusions, non-union fracture repairs, and alveolar ridge augmentation. Petryk developed a mouse model that lacks the twisted gastrulation protein, which typically functions as a BMP antagonist. With that protein deleted, the researchers expected to see more bone production. Instead, they observed less bone due to increased bone resorption. The team recently received funding from the National Institutes of Health to study the mechanisms by which twisted gastrulation and BMPs interact and regulate bone resorption at the cellular level and how this interaction could lead to bone loss. A better understanding of how bone metabolism is regulated could lead

to new therapeutic interventions for osteoporosis and bone loss due to tumors and periodontal disease, better orthodontic treatments, and greater control of orofacial surgical applications.

Another project, on bone loss in patients who take tenofavir, a drug used to treat HIV, is being led by Kim Mansky. Gopalakrishnan and Kim Mansky's husband Louis Mansky, professor in the

“We are a basic science lab that has started doing some clinical research in bone biology.”

— RAJ GOPALAKRISHNAN,
ASSOCIATE PROFESSOR, DIVISION OF ORAL
AND MAXILLOFACIAL PATHOLOGY

school's Institute of Molecular Virology, are co-investigators. As patients with HIV live longer, tenofavir-related bone loss has become a significant complication of the anti-viral therapy, Gopalakrishnan says. Kim Mansky's lab is one of only a few labs in the country studying this relationship between HIV infection, tenofavir, and bone loss. The results will be critical for the skeletal health of people with HIV.

Research Pathways

Research ideas are formulated and tested over time and inspiration comes from both personal observation and the work of others. “After seeing 50 patients and letting your subconscious roll around with the data you read about in the journals, you have these little epiphanies,” says Basi. The next step is to do the research that tests the hypothesis. “I could be wrong,” he says, “I could be right.”

Seong also faces the issue of time—and timing. “I hate waiting,” he says, referring to the process of applying to the FDA for approvals. Even so, the work has benefitted from the outside evaluation. “With this series of mechanical testing and animal studies, I'm much more comfortable and confident about this product,” Seong says. “But we [still] have to wait and see if this product is really helping humans.”

Funding also must be found for these studies. Seong presented his dental implant cement research proposal to



PHOTOS BY SCOTT STREBLE

Raj Gopalakrishnan

the University's Center for Translational Medicine. “They are supporting it and I'm really happy for that,” he says. Basi applied for but did not receive grant funding. Fortunately, the dental school provided internal support to advance his project. To carry out his research, Gopalakrishnan has been awarded grants from the National Institutes of Health and other federal agencies.

School of Dentistry studies on the side effects of bisphosphonates and tenofavir, Gorr says, demonstrate how important it is for researchers to be alert for opportunities. “Only by talking to other people and keeping your eyes and ears open to what's going on in other fields can you realize there is a problem that you may be able to help solve,” he says. “That's where collaboration is important.”

Seong recognizes collaboration is key. Two visiting professors and a visiting scholar from Korea, Ki-Young Nam, Jong-Ki Huh, and JongRyul Kim, are working with him, as are Heather Conrad,



Jay Jeong, and Deepak Kademani, colleagues from the prosthodontics and oral and maxillofacial surgery divisions at the School of Dentistry. In addition to Gopalakrishnan, oral surgeons Pamela Hughes and Ma'Ann Sabino also take part in Basi's research project.

“Each of us has a role to play, whether through sample collection or analysis or whatever,” Basi says. As busy clinicians who teach, these researchers also “step in” to advance science.

With the right teams studying interesting questions that promise improved understanding and better treatments for patients, these researchers are advancing the hard science of bone biology. **Ⓞ**

Driven *to* Teach

Women join the ranks of academic dentistry.

BY TERRI PETERSON SMITH



As men and women mingle in the halls, clinics and classrooms of the School of Dentistry, it's difficult to imagine that at one time there were no

female dental students. Dental school was a man's world, widely described as being more like boot camp than a supportive learning atmosphere.

Now, women comprise 18.3 percent of active dentists in the U.S. and, according to the American Dental Education Association (ADEA), just over 45 percent of the nation's 20,052 dental students in the 2009 academic year were women. In the current first-year class of 98 dental students at the University of Minnesota, 40 percent are women.

As more women have entered the dental profession, it follows that there are more women not only in private practice, but also pursuing careers in academic

dentistry. Nationally, 31.33 percent of full time dental school faculty members are women. The numbers at the School of Dentistry are similar. Of the 114 full-time faculty, 34 (29.8 percent) are women. Sixteen of these were hired within the last seven years. With those changes have come subtle adjustments to the learning environment in dental schools as well as a growing feeling that gender equity is no longer *unusual*; instead, it's business *as usual*.

Changing Vision

Just how big a deal these statistics are depends on your age. For young women entering dental school in 2011, it seems only natural that they will have academic career opportunities. Yet, anyone who has watched the award-winning television series *Mad Men* recognizes that before the 1970s, career choices that existed for women were pretty much limited to teaching, nursing, and clerical positions.

"Title IX changed everything," says Chris Blue, assistant professor and director of the Division of Dental Hygiene. "It changed the vision women had for themselves." She refers to Title IX of the Education Amendments of 1972, the federal law prohibiting sex discrimination in educational institutions. "In the late '70s when I graduated there were no women in dental school classes. No one said to me, 'Have you thought about dental school?'"

Blue went on to receive her master of science degree in dental hygiene from Old Dominion University in Norfolk, Virginia, and joined the School of Dentistry as a clinical associate professor in 1994. In 2005, she became director of the Division of Dental Hygiene. She has a long-time interest in the use of technology to enhance learning. The CD-ROM instructional program she developed for teaching head and neck anatomy to dental hygienists, dental assistants and



Heather Conrad

dentists is used by students at the School of Dentistry as well as at other learning institutions.

Opportunities for women in dentistry have broadened generally. One of Blue's recent achievements was to help create the school's Master of Dental Hygiene Program, which has two tracks, one for hygienists who wish to pursue the research and education side of the profession and the other that prepares dental hygienists for high-demand business careers in the oral products industry. "Across the board," she says, "it's a different world now."

But it didn't happen over night. Long before most women entering dental school today were even born, other women were paving the way, working to gain acceptance where their presence wasn't always appreciated. To do so, they amassed stellar dental and leadership credentials. Take for example one of the School of Dentistry's "firsts." Judith

Buchanan, who is the school's first woman in the position of associate dean for academic affairs, graduated from the University of Florida College of Dentistry in 1980 when women comprised only about four percent of dental students.

"Title IX changed everything. It changed the vision women had for themselves."

— CHRIS BLUE, ASSISTANT PROFESSOR AND DIRECTOR OF THE DIVISION OF DENTAL HYGIENE

But, even before that, she earned a doctorate in biochemistry from the University of Texas. She served for 22 years in the National Guard and Army Reserve and attained the rank of lieutenant colonel in the National Guard. In 2003 she was deployed to run dental clinics in Bosnia and Germany. She

served as academic dean at the University of Pennsylvania School of Dental Medicine from 1997 until 2005; then she 'deployed' to the University of Minnesota. In 2011, she was inducted into the University's Academic Health Center Academy of Excellence in the Scholarship of Teaching and Learning.

A more recent addition to the School of Dentistry faculty is Sheila Riggs, who joined the School of Dentistry faculty in 2009. She is chair of the Department of Primary Dental Care, the first female department chair at the school. She earned her doctor of dental surgery degree from the University of Iowa and her doctorate in epidemiology from Harvard. She proceeded to lead the analytic division of Wellmark Blue Cross and Blue Shield of Iowa and South Dakota, while also serving as the executive director of the Wellmark Foundation. She joined Delta Dental of Minnesota as CEO in 2005 and, four years later, came to the ☺

University in 2009. She now spends 75 percent of her time at the School of Dentistry and 25 percent at the Academic Health Center where she capitalizes on her business and health care experience to lead health policy initiatives. She also holds non-stipend faculty appointments at her alma maters.

Choosing the Academic Life

Given the career options now available, one wonders what draws women to the academic side of dentistry. "It's certainly not an easier option than private practice," says Riggs. "In fact many faculty

ing the profession, period." She was the country's first female dental school dean, serving in that position at Howard University from 1975 until 1991. "I think women choose academic dentistry for the same reasons as men. It offers a variety of clinical and research options, flexible time, and opportunity for creativity and interaction with students. The satisfaction levels of both men and women dental faculty are very favorable." And, while the salaries may not be as high as those in private practice, she says, "Individuals do not teach just for the money; there are other motivating factors."

and develop professional relationships with colleagues. I later became a course director in fixed prosthodontics and enjoyed preparing lecture and laboratory materials and interacting with students.

"Soon that half-day became my favorite day of the week and I decided teaching was my calling. I applied

"But since I was in a solo practice, I decided to teach a half-day a week at the University of Saskatchewan to maintain and develop professional relationships with colleagues ... Soon that half-day became my favorite day of the week and I decided teaching was my calling."

— HEATHER CONRAD, ASSISTANT PROFESSOR IN PROSTHODONTICS, AND ASSOCIATE DIRECTOR OF THE ADVANCED EDUCATION PROGRAM IN PROSTHODONTICS

and was accepted to the University of Minnesota graduate program in prosthodontics, sold my practice, house, and truck...and moved south."

At the University of Minnesota, she earned a certificate in prosthodontics and a master of science in dentistry. And, in the midst of it all, she became the mother of twins, who are now two years old.

"I have a very supportive husband," she says. "I've been a dentist since 1997, so I had 12 years where I was able to put my career first. Starting a family later in life was a welcome adjustment in priorities that put family back on top of the list, with my career a close second. I don't believe that women can have everything, because that would mean I have everything without sacrifices." Still, she continues to teach full-time, and says, "I have to choose what is most important to accomplish in each day and make efficient use of my time."

Apparently, she does it very well. Conrad was voted professor of the year in 2009 and 2010, and was appointed associate director of the Advanced Education Program in Prosthodontics in 2010.



Christine Blue

teach, have a private practice, *plus* serve on committees and do research. However, their days may have more variety. Students certainly bring variety to your life."

According to Jeanne Sinkford, director of the ADEA Center For Equity and Diversity, "The increased number of women faculty across the country reflects the increased numbers of women enter-

One of the school's newest faculty members is Heather Conrad, assistant professor in the Division of Prosthodontics, who received her dental degree from the University of Saskatchewan College of Dentistry. "I started my career in private practice," she says. "But since I was in a solo practice, I decided to teach a half-day a week at the University of Saskatchewan to maintain

PHOTO BY SCOTT STREBLE

Subtle Changes

“Women are an asset to the profession in many ways,” Sinkford says. “They live longer and their productive years are longer. Qualified women have helped sustain the overall quality of student applicants and those that are accepted for dental school. In addition, women dentists enjoy working in teams, which will be very helpful as we improve the health care delivery system in the U.S.”

Greater numbers of women in the ranks of dentistry have undoubtedly brought a subtle evolution in dental education methods, too. “I’ve been looking at learning styles for 15 years, with all sorts of people,” says Buchanan. “Women learn better by conversation and collaboration; men by active experimentation. They’re more independent.” She has had a long-standing interest in the field of virtual reality and incorporating simulation technology into educational curricula, which she advocates as an important tool for learners of all types.

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— JEANNE SINKFORD, DIRECTOR OF THE ADEA CENTER FOR EQUITY AND DIVERSITY

Under her leadership, the University of Pennsylvania School of Dentistry became the first to incorporate virtual reality-based simulation clinics into its curriculum. She led a similar transformation at the University of Minnesota.

Are the teaching styles of men and women vastly different? Sinkford says it’s



PHOTO BY TIM RUMMELHOFF

Judith Buchanan

difficult to generalize. “Women teachers follow their male role models and therefore teach in similar fashions.” Buchanan says that in the beginning, when there were no female role models in academic dentistry, women took their cues from their male counterparts. “They felt they had to be tough and suppress their feminine side,” she says. “But now women are appreciated for their nurturing role. They’re good at collaboration and conflict resolution. Wherever you have male and female roles, they complement each other. Different views are a positive.”

Says Conrad, “I have many great men and women colleagues and mentors here who have their own unique skill set and experience to offer the students. I don’t know if women in particular are changing the way dental students are learning, as every instructor has their own unique style. I think what I try to offer students is a compassionate and understanding approach where the students feel comfortable to learn.

“As an instructor, I try to view the courses I teach from the students’ perspective and how I would want to

be taught. I am a visual learner, as are most dental students, so I like to ‘see’ what it is I have been asked to do, rather than follow written directions.”

As course director for pre-clinical complete dentures, Conrad developed a series of videos demonstrating procedures the students are required to complete for the laboratory portion of the course. She also developed an online learning module for the Advanced Simulation Clinic that provides students with an overview of dental simulation technology, why it is used and how it works. She created the module as a research project that is published on MedEdPORTAL and is now used to orient all incoming dental students to the school’s pre-clinical lab.

For her part, Riggs has an eye toward the larger community. She has waded into the discussion surrounding one of the most challenging issues in society today, the issue of how to improve health care delivery and payment mechanisms, both in medicine and dentistry. At the Academic Health Center, she is linking the CEOs of the five local health care

systems and health insurance companies with members of the community and the University in order to examine the dilemma of how to pay for health care. This problem poses a barrier to implementing new care models and the research innovations developed at the University. Among her many other

tive leadership event designed to assist women in preparing for board service.

She uses her many community connections to facilitate greater access to dental care for those in need. For example, she brought groups of patient care advocates together to help direct children who need dental care to the



Sheila Riggs

activities, she serves on the Board of Directors of the Greater Twin Cities United Way and chairs the Health Impact Committee, which distributes \$14 million annually. She also is the past president of the Women's Health Leadership Trust and serves on the board of directors of the YWCA, the Humphrey Institute and the Minnesota Women's Economic Roundtable. In 2010, she was named Non-Profit Director of the Year at Women in the Boardroom, an execu-

School of Dentistry clinics. She also speaks frequently to audiences of young women on the opportunities in the fields of science and math. "It's exciting," she says. "I love being in the middle of all this."

Growing Acceptance

The greatest change for women in the field may be that their patients and colleagues no longer view them as *woman dentists* or *female academics*.

"I am the first woman dental dean," says Sinkford. "At the time, I knew that I was breaking barriers and would be a role model for other women faculty." Yet, she says, "I intended to be a role model as a *dean* not as a *woman dean*."

"As the dean, my gender was not important. What was important was that I was prepared to lead. I had both the academic and practical experience for the deanship. I had served as an associate dean for many years prior to my appointment. I had received leadership training that was extremely helpful."

Young women dental, dental hygiene and dental therapy students in the School of Dentistry are making sure they have the broader professional view and leadership training necessary to follow in the

"I love being in the middle of all this."

— SHEILA RIGGS, ASSOCIATE PROFESSOR AND CHAIR OF THE DEPARTMENT OF PRIMARY DENTAL CARE

footsteps of their trailblazing predecessors. They obtain these qualities, in part, through participation in activities such as the dental school's annual Student Leadership Conference, co-sponsored with the School of Veterinary Medicine and funded in-part by School of Dentistry alum Dan Middaugh ('61). They also participate in organizations such as the Student District Dental Society of the Minnesota Dental Association, the American Student Dental Association, and the Women's Dental Association. The latter campus group hosts "Lunch and Learn" sessions with guest speakers who discuss their experiences, research and expertise on issues that affect women. The association's Web site states, "As a healthcare professional, the more socially and culturally competent you are, the better you can relate to your patients and society as a whole." Considering that not so long ago there were no women in the halls of dentistry, there's no small irony in the group's statement, "We HIGHLY encourage MEN to join."

Says Riggs: "I gotta tell you, it seems like a gender neutral culture exists here and that's great." ☉

PHOTO BY SCOTT STREBLE

PHOTO BY SCOTT STREBLE

Brandi Tweeter

Second-year Dental Therapy Student

Background:

I was born in Ivanhoe, Minnesota, and graduated from Ortonville High School. I earned an associate of applied science degree in dental assisting (in 1997) from Minnesota West Community and Technical College in Canby. I moved to Montevideo, Minnesota, a rural community of about 5,350 people in Chippewa County, about 140 miles west of Minneapolis and have worked as a dental assistant for 14 years. During this time, I also earned a bachelor's degree in biology from Southwestern Minnesota State University in Marshall. I graduated in 2009.

Traveling a new path:

A friend at the School of Dentistry told me about the new Program in Dental Therapy and my employer thought it would be a great opportunity for me and encouraged me to apply. I'm a single mother, and the new profession appealed to me as a way to grow in my career and still find meaningful employment in my home community. My children and I moved to Waconia, Minnesota, to be closer to family in the area and I commute daily to campus.

Plans after graduation:

I will graduate in December 2011 and return to Main Street Dental Care in Montevideo. I'll have a master's degree in dental therapy and will treat patients who would otherwise have limited access to dental care, such as the uninsured, those with restricted finances, travel concerns or other barriers.

2010 Community Report

The charts below represent the unaudited revenue sources and expenses of the School of Dentistry for fiscal year 2010.

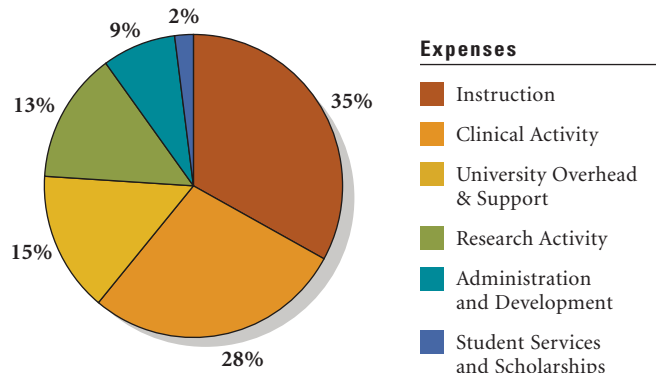
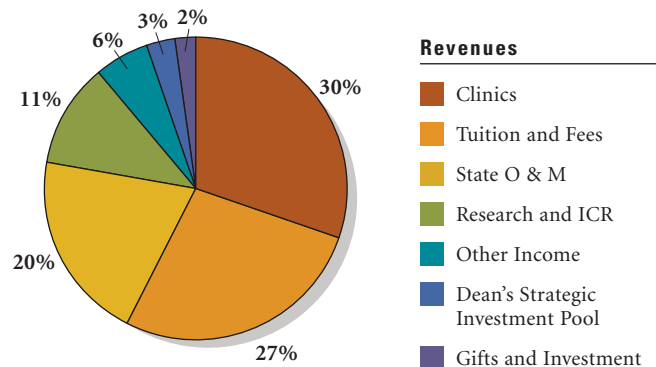
REVENUES & EXPENSES

Revenues (in thousands)

Clinics	\$	19,162
Tuition and Fees	\$	17,642
State Operations & Maintenance (O & M)	\$	12,972
Research and ICR	\$	7,257
Other Income	\$	4,135
Dean's Strategic Investment Pool	\$	2,219
Gifts and Investment	\$	988
Total	\$	64,375

Expenses (in thousands)

Instruction	\$	22,432
Clinical Activity	\$	17,769
University Overhead & Support	\$	9,619
Research Activity	\$	8,220
Administration and Development	\$	5,487
Student Services and Scholarships	\$	1,022
Total	\$	64,549



Revenues Notes

Financial results for the University of Minnesota School of Dentistry for the fiscal year ended June 30, 2010 reflected overall economic conditions in several key areas. Most notable were continuing expense reductions through employee attrition, position consolidations and compensation adjustments. As a result of expense controls, overall revenues exceeded expenses by \$200,000 for the fiscal year ended June 30, 2010.

Total revenues for the School of Dentistry increased \$4.7 million for the fiscal year ended June 30, 2010, from \$59.6 million to \$64.3 million. Increases resulted from higher levels of research funding, federal ARRA funds and higher tuition and fees. These increases offset sharply reduced state funding. This combination is consistent with trends at many dental schools nationwide.

Clinical and affiliation revenues increased by \$2.1 million, from \$17.0 million to \$19.1 million. Clinical activities reflect continued pressures on public program reimbursement levels as well as the effect of the economic decline in the latter part of the year. Operational processes were reviewed and changes implemented to increase patient volume in response to reduced state funding support.

Tuition and fee revenue increased \$1.5 million from \$16.1 million in FY2008 to \$17.6 million in FY2010. The University of Minnesota School of Dentistry has historically targeted the mid range of publicly supported Midwestern dental schools when determining tuition rates.

State operating and maintenance funding received by the School of Dentistry (O & M), continued the trend of the past few years as state support decreased as a percentage of total revenue and in absolute dollars (\$15.1 million to \$12.9 million). Of special note is that tuition and fees continued to widen their gap over state funding support. This trend was in evidence across the entire University. A continued decline in this funding area is expected in the next budget biennium.

Research revenues increased due to greater success in applying for and receiving grant funding, both NIH/NIDCR and industry funding. Additional federal stimulus funding had a positive impact on grant opportunities. Research revenue increased from \$6.1 million to \$7.3 million.

Other income increased by \$1.8 million, from \$2.3 million to \$4.1 million. This increase was the result of one time ARRA funding related to the federal stimulus program and one time funding from the Academic Health Center to support outreach and community clinical operations.

Dean's strategic investment pool increased \$.1 million, from \$2.1 million to \$2.2 million. A significant portion of this funding is from federal educational funding sources and is subject to federal budgetary constraints.

Gifts and investment returns, which does not reflect funds given to, or retained, in the University Foundation, were flat at \$1.0 million for the fiscal year ended June 30, 2010.

Expenses Notes

Total expenses for the School of Dentistry decreased \$.7 million for the fiscal year ended June 30, 2010, from \$65.3 million to \$64.6 million.

Instructional expenses increased \$1.0 million, from \$21.4 million to \$22.4 million, primarily related to contractual fringe benefit increases and contractual compensation increases.

Clinical expenses decreased \$.4 million, from \$18.2 million to \$17.8 million.

Research activity expenses decreased \$.6 million due to staff reductions.

University overhead & support decreased \$.8 million from \$10.4 million to \$9.6 million. This category includes the School of Dentistry's pro-rata portion of such University wide expenses as facilities management, libraries, central administration, technology and research administration and compliance.

Administration and development expenses increased \$.2 million, from \$5.3 million to \$5.5 million, primarily related to efforts to implement the new clinical information system.

Scholarships and student services decreased slightly from \$1.2 million to \$1.0 million.

Jeff Ogden
Chief Administrative Officer

2010-11 FACULTY/STUDENT STATISTICS

Paid Faculty Appointments*

	Full Professor	Associate Professor	Assistant Professor	Total
Tenure/Tenure Track	23	28	11	62
Research Track	0	8	4	12
Clinical Track	2	20	21	43
Adjunct	29	32	71	132
Total	54	88	107	249

*As of 4/5/10.

Students | Fall Semester Enrollment 2010

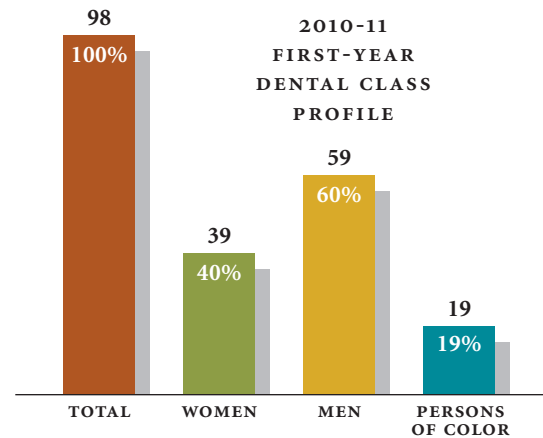
Dental Hygiene, B.S.	48
Dental Hygiene, Master Degree	13
Dental Therapy	19
D.D.S.	412
Advanced Education & Graduate Programs	87
Total	579

2010 Graduates

Dental Hygiene-Baccalaureate Program	25
Certificates	32
Master of Dental Hygiene	6
Doctor of Dental Surgery	101
Professional & Graduate Degrees Awarded	32
Total	196

2010-11 FIRST-YEAR DENTAL CLASS PROFILE

Total Number of Applicants 955*
Class Size 98



Average GPAs

Overall GPA	3.62
BCP (Bio, Chem, Physics) GPA	3.57
Science GPA	3.57

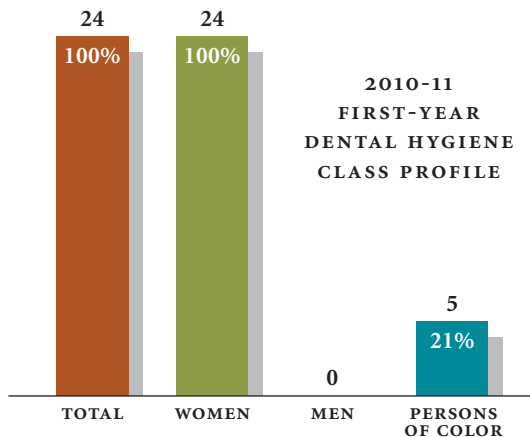
Average DATs

Academic Average	19.53
Perceptual Ability	20.23
Total Science	19.73
Reading	20.97

*These figures represent AADSAS calculations.

2010-11 FIRST-YEAR DENTAL HYGIENE CLASS PROFILE

Total Number of Applicants 72
Class Size 24

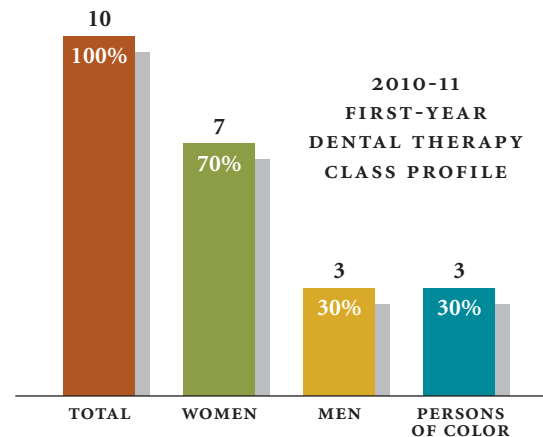


Average GPAs

Overall GPA	3.53
Science GPA	3.29
Prerequisite GPA	3.52

2010-11 FIRST-YEAR DENTAL THERAPY CLASS PROFILE

Total Number of Applicants 33
Class Size 10*



Average GPAs

Overall GPA	3.30
Prerequisite GPA	3.34

*6 Master's Degree Program, 4 Bachelor's Degree Program.

Going Retro

For each of her three-plus years in dental school, Student Council President Nicole Reardon believed there should be a special place where dentistry students could eat lunch, study, relax, share ideas, work on group projects and presentations, and discuss dentistry and topics unrelated to the profession.

On March 31, Reardon welcomed a crowd of some 200 guests at a ribbon-cutting ceremony to celebrate the launch of a new student learning commons area on the first floor of Moos Tower. "It is a place for students to call our own," says Reardon. Dubbed the Retromolar Pad by students who participated in a broadly promoted naming contest, the space has transformed the learning and social environment for students. "Not only was a new space considered and built for us, but we as students were also lucky to play a part in the planning," Reardon says. "Students had the opportunity to help in deciding what the space would look like and what the layout would be, as well as choosing colors for the paint and carpet, furniture and more."

Located in previously underutilized space on the first floor of Moos Tower, the 2,300 sq. ft. student lounge has been remodeled to provide students a place for private and group study, socializing, small group meetings, storage and lunch. The area has a key-card entrance, cell phone reception and Wi-Fi capabilities, is open daily from 7:00 a.m. to 10:00 p.m., and is monitored by round-the-clock security cameras. "Even on weekends," Reardon says, "students are able to use the Retromolar Pad as a place to study with no distractions."



PHOTO BY ALI SUEHLE

(L to R): Goldy Gopher, fourth-year dental student Nicole Reardon, and Dean Patrick Lloyd at a ribbon cutting ceremony to launch the opening of the Retromolar Pad, a new study and socializing space for School of Dentistry students.

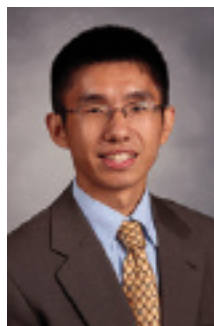
According to Dean Patrick Lloyd, the new student commons area is the largest space acquisition for the dental school since it moved into Moos Tower in 1974. "The space is an opportunity to build community across School of Dentistry programs," he says. "It's a place that creates relationships, builds partnerships and allows people to learn how to work together."

Lloyd thanked Frank Cerra, former senior vice president for health sciences, who helped provide funds for the project renovation and all of the students, staff and faculty who participated in the planning and construction of the facility.

People



Nathan Burbach



Xu Han

First-year dental students **Nathan Burbach** and **Xu Han** were selected to receive the 2011 National Institute for Dental and Craniofacial Research (NIDCR) *Summer Dental Student Award*. The award was created to provide outstanding summer research training for talented dental

students. The students will spend a minimum of eight weeks this summer in Washington, D.C., working alongside established scientists in each student's area of research interest. Both students participated in the dental school's Student Summer Research Program. Han conducted his investigations with Associate Dean of Research Sven-Ulrik Gorr (School of Dentistry) and Burbach was mentored by Anna Petryk, Medical School.

Raj Gopalakrishnan (Diagnostic/Biological Sciences-Oral and Maxillofacial Pathology) is the new director of the School of Dentistry's Graduate Program in Oral Biology.

Darryl Hamamoto (Diagnostic/Biological Sciences-Oral Medicine) has been accepted into the year-long American Dental Education Association Leadership Institute.

The program is designed to develop the nation's most promising individuals at academic dental institutions to become future leaders in dental and higher education. His participation is supported by the *Dentistry Fund for Achievement*.

Rich Madden (Diagnostic/Biological Sciences-Oral and Maxillofacial Pathology) is the director of the new Oral Disease Clinic.

Karin Quick (Primary Dental Care-Comprehensive Care Clinic) was appointed director of ethics education for the University of Minnesota School of Dentistry.

Cyndee Stull (Masters Program in Dental Hygiene) was awarded the 2011 ADEA/Crest Oral-B Scholarship for Students Pursuing Academic Careers.

Todd Thierer Named New Associate Dean. Todd Thierer, has a reputation for selfless service in improving the future of dental education. After 21 years as a faculty member at the University of Rochester Eastman Institute for Oral Health, he has joined the School of Dentistry faculty as associate dean for clinic



PHOTO BY KEITH BULLIS

administration and patient care. He began his transition to the new position in April and will join the faculty fulltime on July 5, 2011.

Thierer's new responsibilities include the integrated management of the school's clinical systems operation as it relates to all pre-doctoral dental, advanced education, dental hygiene, dental therapy, and faculty clinics located within and affiliated with the University of Minnesota School of Dentistry, including

the effective use of personnel, facilities and equipment. He will contribute as a member of the Steering Committee and appropriate subcommittees in preparation for the ADA Accreditation site visit in 2013, provide guidance for and support a team approach to managing staff involved in the school's clinical systems operations, and promote a culture of continuous quality improvement among students, staff and faculty.

Thierer earned his doctor of dental surgery degree at the State University of New York University at Buffalo and a master of public health from the University of Rochester School of Medical Dentistry. He completed a two-year General Practice Residency and joined the faculty at the University of Rochester Eastman Institute for Oral Health where he served, most recently, as associate professor and chief quality officer. He was also the medical director of the Eastman Dental Center, and director of the General Practice Residency Training Program, the Ambulatory Dental Services, and the Faculty Practice at Strong Memorial Hospital.

His professional service interests include administrative board positions for the ADEA/AADA Section on Postdoctoral General Dentistry and the Council of Hospitals and Advanced Education. He is the current vice president of that council and sits on the ADEA Board of Directors. Additionally, he is a site visitor for the Commission on Dental Accreditation (CODA) for the postdoctoral general dentistry programs, and was a member for four years of CODA's Postdoctoral General Dentistry Review Committee.

High School Students Learn About Dentistry at Saturday Academy.

Twenty-eight students representing 10 high schools participated in the *Saturday Academy*, a 22-week introduction to dentistry for middle and high school students offered by the School of Dentistry, which kicked off on January 22. More



PHOTO BY KATHERINE BOYUM

(L to R): High school students Pheng Vang and Ahmed Ahmed, with second-year dental student Eva Lau.

than 100 students in the Minneapolis School District applied to attend this new program, which provides opportunities for disadvantaged teens to develop their interest in a dental career.

Attendees participated in a White Coat Ceremony, toured the dental school, and spent time in the Math Department learning about game theory. At subsequent Saturday sessions, students spent mornings studying math and science or with guest speakers, and their afternoons focusing on issues related to dental careers.

Saturday Academy is an initiative of the school's new *Building Bridges to a Career in Dentistry Program*. Created to enhance dental access for underserved communities by increasing diversity in the dental workforce, *Building Bridges* is made possible by a \$1.9 million grant from the U.S. Department of Health and Human Services. The program was developed in partnership with the Minneapolis Public Schools, the Minneapolis Urban Area Health Education Center (AHEC), and the University's College of Liberal Arts and College of Biological Sciences.

New Outreach Rotation. Students and faculty attended the grand opening of the Native American Community Clinic Dental Clinic on November 1. The five-chair clinic is the site



School of Dentistry Clinical Assistant Professor Charles Watkin and Ying Xiong, RDA.

of the School of Dentistry's eighth and newest clinical rotation for dental and dental hygiene students; dental therapy students will join the rotation in May 2011. A School of Dentistry faculty

dentist is on-site daily to supervise four senior dental students and two dental hygiene students. The Native American Community Clinic is a Federally Qualified Health Center (FQHC) that has served Native Americans and others in the Phillips neighborhood and Twin Cities metropolitan area since 2003.



A Letter from the President

Dear Colleagues,

As I travel throughout the United States in my position of business and clinical consultant for a dental practice management company, I continually meet people who have a School of Dentistry connection. I was in Oregon recently, and met a wonderful young man whose grandfather, father, mother, two aunts and an uncle all attended the University of Minnesota School of Dentistry. He hopes to carry on the family tradition and is anxiously awaiting his acceptance into what he calls the “best dental school in the country.” He’s talking about *our* alma mater! It is always exciting for me to find others so far away who are enthusiastic about our School of Dentistry. And I continue to see why.

The School of Dentistry Alumni Society (SODAS) co-sponsored a leadership seminar for students with the College of Veterinary Medicine. School of Dentistry alumni were present to share their experiences in leadership roles and to answer questions about life after dental and dental hygiene school. I enjoyed the opportunity to engage in conversation with the future leaders of our profession. We have so many amazing students in our programs. I saw the organizational skills of our student leaders at the Give Kids a Smile event at the school. This is a student organized event and it appeared to run flawlessly. It is so refreshing to see volunteerism very much alive in our school.

I look forward to seeing many of you at the Star of the North Meeting in April. It is a great time to stock up on the School of Dentistry logo items of sweatshirts, polo shirts and caps and to check out the new items for sale. One of the events of the weekend takes place on Friday night—the Dean’s Reception. This event is a celebration of alumni and faculty. We unite to meet with old friends and make some new ones. Congratulations to our distinguished dental and dental hygiene alumni, Dr. Jerry Bouquot and Ms. Joy Osborn, who will be recognized at the reception for their contributions to dentistry. This annual event is one of my favorite evenings of the year.

The 17th Annual Alumni Society Golf Classic will be held at Majestic Oaks on Friday, July 15, 2011. We promise another outstanding day of golf with alumni, students and supporters of the alumni society. Please consider golfing with us or sponsorship of a hole or student golfer. It is one of the best ways to celebrate summer in Minnesota!

As alumni, you are an integral part of the school. Current and future students welcome your support which enables them to have the great educational experience that you had. The SODAS offers the opportunity to donate to the Cap & Gown Graduation Fund which pays for the students’ caps and gowns at graduation. This is one way to welcome graduating seniors into the alumni society. Additional information can be found at www.dentistry.umn.edu/alumni/. If you are a current member of SODAS, I thank you for your support. If you are renewing your membership, please consider upgrading to a Life Membership. We need your support!

It has been a privilege to serve as your president this year. It has been an experience that I will always treasure. I would encourage each and every one of you to consider what you can offer your alma mater. How can you become involved in *your* alumni society? We welcome your participation.

Sincerely,

CAROL DAHLKE, R.D.H., M.D.H. '84, '07, '10
President, School of Dentistry Alumni Society
www.dentistry.umn.edu/alumni

Upcoming Class Reunions & Events

REUNION/EVENT	DATE, TIME, LOCATION & CONTACT INFORMATION
Class of 1961	50 Year Reunion , Friday, April 29, The Lexington Restaurant, Dr. Leonard Arndt and Dr. Lowell F. Sorenson, Co-Chairs
Class of 1964	Saturday, April 30, 12:00 p.m., Saint Paul Hotel, Dr. James E. Indrehus, Chair
Class of 1966	45 Year Reunion , Friday, April 29, 12:00–2:00 p.m., Saint Paul Hotel, Dr. Jerome Erickson, Chair
Class of 1971	40 Year Reunion , Friday, April 29, 5:30–8:30pm, McGovern's Pub (upstairs), Dr. Tom Beckman, Dr. Steve Nielsen, Dr. Hugh Norsted and Dr. Mike Prazich, Co-Chairs
DH Class of 1977	40 Year Reunion , Friday, April 29, 12:00 p.m., 317 on Rice Park, Ms. Judy Dunn, Chair
Class of 1977	Friday, April 29, 12:00 p.m. (between sessions), Convention Floor Cafeteria, Dr. Herbert W. Schulte, Chair
Class of 1981	30 Year Reunion , Friday, April 29, 11:30 a.m.–2:00 p.m. (buffet lunch), Saint Paul Hotel, Dr. Karen Heck and Dr. Laura Eng, Co-Chairs
Class of 2001	10 Year Reunion , Saturday, April 30, 5:00 p.m., Pazzaluna, Dr. Bruce Trimble, Chair
Class of 2006	5 Year Reunion , Saturday, April 30, 7:00 p.m., Great Waters Brewing, Dr. Aliya Elmajri, Chair
Delta Sigma Delta	Saturday, April 30, 12:00–2:00 p.m. (between sessions), Saint Paul Hotel, Dr. Herbert W. Schulte, Chair
Minnesota Academy of Pediatric Dentistry	Friday, April 29, 5:30–8:30 p.m., Saint Paul Hotel, Dr. Teresa Fong, Chair
Dental Hygiene Alumni	Friday, April 29, 12:00 p.m., 317 on Rice Park, Ms. Emily Best, contact
Orthodontic Alumni Reception	Saturday, May 14, 6:45–8:45 p.m., Sheraton Chicago Hotel, Dr. Steve Litton, contact
Pediatric Alumni Reception	Saturday, May 28, 5:00–7:00 p.m., Odets Room, New York Marriott Marquis, Dr. Soraya Beiraghi, contact

Celebrating a Reunion?

If you are interested in planning a class reunion, we can help! We can provide mailing lists, address labels, and nametags as well as list information about your class reunion on our website and in *Dentistry* magazine. Contact Annie Pearson at (612) 625-6164 or penno008@umn.edu for more information.



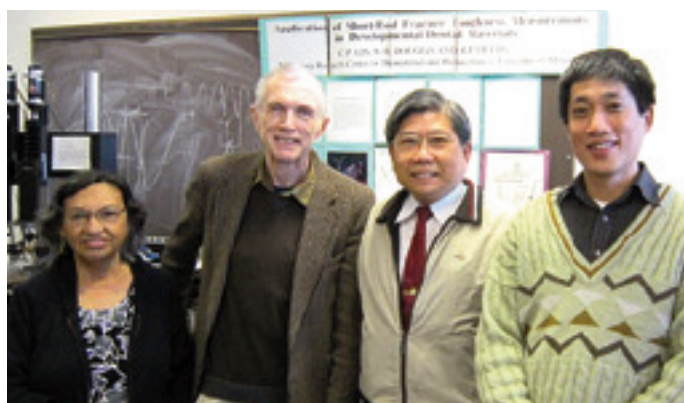
Graduation 2011: School of Dentistry Alumni Society Cap & Gown Graduation Fund

Be a part of the tradition! The School of Dentistry Alumni Society (SODAS) is continuing its annual fund drive for the 2011 Cap & Gown Graduation Fund. This fund supports graduating dental and dental hygiene students by covering the cost of their graduation caps and gowns, offering student awards, and sponsoring the senior class yearbook and the Senior Recognition Banquet.

You can be a part of this special project by sponsoring one or more dental or dental hygiene students at \$45 per student. This contribution is tax-deductible and will help to eliminate one financial worry for students as they wrap up their education and focus on final exams, board examination preparation and job searches. It also demonstrates our support for graduates as fellow alumni and welcomes them into the profession.

To make your donations, visit us online, www.dentistry.umn.edu/alumni, or call (612) 625-4635.

Your generosity will always be a part of the memories of the Class of 2011's years at the University of Minnesota School of Dentistry. *Thank you.*



(L to R): Maria Pintado, Bill Douglas, Chun-Pin Lin, and Alex Fok.

Chun-Pin Lin, dean of the National Taiwan University School of Dentistry, stopped at the School of Dentistry in February to see old friends and tour the Minnesota Dental Research Center for Biomaterials and Biomechanics. As a graduate student at the University of Minnesota, Lin conducted biomaterials research in the dental school under mentorship of Professor Emeritus Bill Douglas and authored a groundbreaking paper on the structure and mechanical properties of the dentoenamel junction. Lin earned a doctorate in oral biology in 1993 and a master of science degree in biophysical sciences in 1994.

Award-Winning Alumni



Joy B. Osborn

Joy B. Osborn

2010 Distinguished Dental Hygiene Alumna

Joy B. Osborn has been affiliated with the University of Minnesota School of Dentistry for 35 years, as a student, teacher, course director, researcher and clinical faculty member. Currently an associate professor in the Division of Dental Hygiene, she has helped to launch the careers of hundreds of dental hygienists, and is always willing to go the extra mile to make every student's education experience a success.

Osborne is a three-time alumna of the University of Minnesota, graduating with an RDH, a bachelor of science degree (with distinction) in dental hygiene education, and a master's degree in curriculum and instructional systems. Her primary teaching responsibilities include preclinical dental hygiene, periodontology, clinical periodontology for undergraduate dental students, and clinical dental hygiene. She is the recipient of a number of Faculty of the Year Awards, as well as the University of Minnesota Academic Health Center Recognition of Excellence Award. Over the past 20 years, she has also taught continuing education courses on topics in clinical dental hygiene, ergonomics, local anesthesia, and periodontology instrumentation.

Osborne's research interests focus on ergonomics for dental hygienists and periodontology. She is the author or co-author of numerous publications related to carpal tunnel syndrome, musculoskeletal pain, median nerve impairment, and periodontal therapy and assessment. She has lectured both locally and nationally on these and related topics. She is a 20-year member of both the American Dental Hygienists Association and the Minnesota Dental Hygienists Association, and was a Trustee of the Minneapolis chapter and a delegate to the MDHA annual session. She practices in the Faculty Practice Clinic at the University of Minnesota School of Dentistry.



Jerry E. Bouquot

Jerry E. Bouquot

2010 Distinguished Dental Alumnus

Jerry Bouquot is an award-winning educator, internationally recognized scientist, and outstanding citizen of the profession and the wider community. For almost two decades, he was a professor and chair of the Department of Oral Maxillofacial Pathology, West Virginia University (WVU), where he received its highest awards for teaching and for service to humanity, as well as the WVU alumni association's Lifetime Achievement Award. He currently serves as professor and chair of the Department of Diagnostic Sciences at the University of Texas Dental Branch in Houston, Texas.

He's also directed the West Virginia Bureau for Public Health, been a Senior Visiting Scientist of the Mayo Clinic, a special advisor to the National Institutes of Health, and the West Virginia Oral Cancer Control Coordinator. With more than 260 published papers, abstracts and book chapters, his work has been translated into several languages, is often cited in the literature, and has been used by state and national governments to determine oral health policy. He co-authored the popular text book *Oral Pathology*, has been a reviewer for numerous medical and dental journals, and on numerous editorial boards, both in the U.S. and internationally.

His popular oral pathology website (oralpath.com) receives approximately 7 million hits annually. Recently, the Texas Medical Center awarded him the Fleming and Davenport Award for original research. Bouquot has also served as president of several professional associations. He received his D.D.S. and M.S.D. degrees from the University of Minnesota, with postdoctoral fellowships at the Mayo Clinic and the Royal Dental College in Copenhagen, Denmark.

Class Notes

Please submit brief notices about milestone events and activities to: U of M School of Dentistry, Alumni Relations (attn: Annie Pearson), 515 Delaware St. S.E., 15-136 Moos Tower, Minneapolis, MN 55455 or penmo008@umn.edu.

Dentistry is published two times a year. Deadlines for submission are: Spring issue: January 1; Fall issue: July 1. Please note: *Dentistry* cannot publish birth and marriage announcements.

1942

Harvey J. Post (D.D.S.), Rushford, passed away on February 23 at age 96. During World War II, he served in the 8th Army of the United States Army Air Force Dental Corps, 96th Bombardment Group at Snetterton Heath airfield in England, reaching the rank of major. Returning to Minnesota, he moved first to Rochester and then to Rushford, where he practiced dentistry until 1984. He was a Sunday school teacher for 18 years. He loved to sing—at weddings and funerals, and with numerous community choirs, including a barbershop quartet and chorus. He also enjoyed family gatherings, watching and listening to birds, storytelling, Bible study, gardening, and oyster stew. He was a member of the Rushford Veterans of Foreign Wars and American Legion Posts, and volunteered as a Civil Defense Spotter, as a projectionist at the Rushford theater, and with the Boy Scouts.

1946

James R. Jensen (D.D.S.), Roseville, passed away on January 12. Widely honored and respected, Jensen chaired both the Departments of Operative Dentistry and Endodontics, and served as associate dean for academic affairs at the School of Dentistry. After dental school, he spent two years as a captain in the U.S. Army Dental Corps serving most of the time in Luzon, Philippine Islands. He returned to the University of Minnesota as a teaching assistant and became the dental school's first graduate to receive a master's degree in dentistry with a concentration on the discipline of endodontics. He joined the faculty in 1948 and his career spanned the era in which dentistry moved from being a "cottage industry" to the 1990s when it was reshaping itself into large group practices, using computerized technology, and coping with complex financing systems. Along with Erwin Shaffer and Mellor Holland, Jensen played a critical role in raising funds for and designing the new School of Dentistry in Moos Tower. In his various administrative capacities, he helped raise the school's standards

Remembering Our Faculty

We share this news of the passing of a former faculty member. Obituaries of faculty who are alumni of the University of Minnesota School of Dentistry are included in Class Notes.

Leslie Martens (D.D.S.), St. Paul, passed away on January 13 at age 72. Few, if any, School of Dentistry faculty members have epitomized the professional's commitment to public health better than Les Martens. A graduate of Loyola University School of Dentistry, he served in the U.S. Army Dental Corps and earned a Masters in Public Health from the University of Minnesota.

He was hired by the School of Dentistry by the late Larry Meskin in 1969 to help create what was then known as the Division of Health Ecology. Both men held a deeply felt belief that the profession had no choice but to become engaged in the broader social, cultural and health systems of which it was a part. When Meskin moved to the University of Colorado in the mid-1970s, Martens assumed management of the division and, a decade later, also served as chair of the Department of Preventive Sciences.

Directly, or indirectly, Martens created the School of Dentistry's community and public health curricula, the Dental Auxiliary Utilization and Teaching



Les Martens

Effective Auxiliary Management programs, as well as the Advanced Education in General Dentistry and the first General Practice Residency programs. He held several patents for dental inventions, specifically in the area of office-water contamination. Noted for his classroom humor and ability to help students understand complex issues, Martens impacted the lives of thousands of Minnesota dental graduates.



James R. Jensen

of excellence and guided it through several rounds of accreditation. He was viewed as a skilled technician, an uncompromising professional, and an academic visionary. His office was filled with mementos garnered from dental schools and associations around the world, places he'd visited to help design, implement, evaluate, and strengthen dental education programs. He was gifted with great insight, unbounded generosity and good humor, and a belief that life was a joyful journey of learning and discovery. His enthusiasm for life and dentistry endeared him to students, faculty, staff, and patients alike.

of excellence and guided it through several rounds of accreditation. He was viewed as a skilled technician, an uncompromising professional, and an academic visionary. His office was filled with mementos

Irving Posnick (D.D.S.), Boynton Beach, Fla., formerly of St. Louis Park, passed away on December 24, 2010, at age 87. After graduation, he served in the Navy as the sole dentist at the Marine base on Attu Island, Alaska, and returned to private dental practice in St. Louis Park in 1949. His son Steven joined the practice in 1976 and he retired from dentistry in 1991 after 42 years of patient care. A pioneer in hospital dentistry for children, he served as past president of the American Society of Dentistry for Children and the Minneapolis District Dental Society, was a life member of the University of Minnesota Alumni Association and a member of the University of Minnesota President's Club, and was involved in numerous other professional and community organizations. In the 1960s he founded and ran Aqualand Pool Company in St. Louis Park, a family business that operated until all his sons moved on to their professional careers. After retiring from dentistry, he became a certified golf club maker and founded Custom Clubs by Irv, a home business that combined his hobby of golf with his love of business. Multi-talented

(continued on next page)

Class Notes *(continued from page 21)*

and resourceful, he was independent and strong willed, had a wonderful sense of humor, and was a loyal, sincere, honest, soft-hearted family man and a friend to all.

1950

Charles F. McGuiggan (D.D.S.), Spicer, passed away at his Arizona home on March 14 after a 10-month battle with cancer. McGuiggan served in the South Pacific during World War II, then graduated from dental school and joined his father in general practice dentistry in Marshall. Recalled to military service under the Doctor Draft Law, he served at the Great Lakes Naval Base during the Korean War, then earned a certificate in orthodontics in 1965 and practiced orthodontics until his retirement in 1984.

McGuiggan was active in numerous civic and community organizations. He served for one term as city councilman and for four terms as mayor of Marshall. He was appointed by the Governor to the State Board of Education and the State Board of Vocational Education, which he chaired for three years, and was also a member on the Higher Education Coordinating Board. He was instrumental in establishing Southwest Minnesota State University (SMSU) in Marshall, and was the first president of the SMSU Foundation and Campus Religious Center. He also served two terms on the University of Minnesota Board of Regents (1977-1987), and chaired that board from 1985-87. He was a member of the Minnesota Dental Association, the American Dental Association, and the Minnesota Society of Orthodontics. He also served as a volunteer fundraiser for the University of Minnesota School of Dentistry. Memorials preferred to: "McGuiggan Family Endowment Scholarship" at Southwest Minnesota State University or the University of Minnesota School of Dentistry.

1956

Keith W. Nelson (D.D.S.), Kirkland, Wash. (formerly of Polson, Mont.), passed away on September 17, 2010, from lymphoma. Before college, he worked for two years as a lumberjack at his father's railroad tie mill near Eureka, Mont., and spent summers during college at Old Faithful Inn in Yellowstone National Park. He graduated from dental school with honors and moved to Misawa Air Force Base in Japan, where he was a captain during the Korean War, and then returned to Polson in 1959 to practice dentistry. He was passionate about dental practice. He was a member of the American Dental Association, the Montana State Dental Society, past president to the Missoula

District Dental Society and a member of Psi Omega Dental Fraternity. He retired from dental practice in 1987.

1959

Edward T. Nelson (D.D.S.), Ottetail (formerly of Thief River Falls), died October 11 at age 81. Following military service in the Korean War, Nelson graduated from dental school and moved to Thief River Falls, where he practiced dentistry until his retirement in 1992. He served as past president of the Minnesota Board of Dentistry and was a Fellow of the American College of Dentists. He was a Paul Harris Fellow of Rotary International and served both his community and his profession in numerous other capacities.

1972

Ronald L. King (D.D.S.), St. Louis Park, died October 21, 2010, from cancer at age 62. He was a man of many interests and talents who decided at age 11 that he wanted to become a dentist. He served as a dentist in the U.S. Air Force at Holloman Air Force Base in New Mexico (1972-74), and returned to Minneapolis where he taught oral anatomy and clinical operative dentistry part-time at the School of Dentistry (1974-84). He served two four-year terms on the Minnesota Board of Dentistry. He was also a licensing examiner for the Central Regional Dental Testing Service (2002-2009). He was past president of the Holistic Dental Association, and was a member of the International Academy of Oral Medicine and Toxicology, International Academy of Biological Dentistry and Medicine, the Twin City Dental Study Club, and the American Dental Association.

1974

Mark R. Omlie (D.D.S.) Edina, was elected president of the Minneapolis District Dental Society and installed in April 2010 to serve for one year.

1980

Laura M. Eng (D.D.S.), St. Paul, received the 2011 *Outstanding Service Award* from the St. Paul District Dental Society (SPDDS). She was recognized for her involvement in Children's Dental Health Day at the Zoo, her role as chair of the SPDDS and Minnesota Dental Association Membership Committees, and her service on the ADA Council on Membership. Eng was also a member of the SPDDS Executive Council and served as district president in 2005. During that time, she developed the SPDDS 5:05 clubs, where members meet informally with other dentists who work near them.

1997

Randall Moseng (D.D.S.), Onalaska, Wisc., was awarded the *Community Outreach Award* by the Wisconsin Dental Association for his role in spearheading efforts to initiate community water fluoridation for the Village of Holmen, Wisconsin, a community of more than 7,000 residents.

1998

Jamie (Jerome) Pavek (D.H.) Oakdale died on October 4, 2010 from breast cancer. Originally from Hibbing, she served in the Minnesota Air National Guard (1991-2003), received her B.S. in Dental Hygiene in 1998 and a masters' degree in organizational management from Concordia University in 2001. Her greatest joy in life was her family and she fought long and hard to stay here with them.

2000

Tara (Meyer) Kaur (D.D.S.), St. Louis Park, is practicing general dentistry and has more than 1000 hours of continuing education and experience in complementary, alternative and energy healing modalities. She founded and directs Inner Guru (www.innerguru.us), is taking classes in nutrition and kinesiology, and plans to become certified in clinical nutrition. She is a member of the International Academy of Oral Medicine and Toxicology, the Holistic Dental Association, the American Dental Association, Minnesota Dental Association, and the Minneapolis District Dental Association.

2003

Keerthana Satheesh (M.S. - Periodontology) is the recipient of the American Academy of Periodontology's 2010 *Educators' Award* at University of Missouri Kansas City (UMKC) School of Dentistry. He is currently a clinical associate professor in the Department of Periodontics at the UMKC.

CDE Courses

Discount Available

School of Dentistry Alumni Society members are eligible for discounted continuing education. Members may receive a 10 percent discount for "lecture only" courses offered through the University of Minnesota School of Dentistry. (This discount applies to School of Dentistry Alumni Society members only and not their employees.)

MAY 2011

**Advanced Occlusion/TMD—
Postgraduate Program in
Esthetic Dentistry: Level III**
May 5–7, 2011

**Spring Core Competency
Day for the Dental Team**
May 13, 2011

**Applied Ergonomics for
the Dental Hygienist:
A Hands-On Program**
May 20, 2011

**Local Anesthesia:
A Hands-On Training Program**
May 23–25, 2011

JUNE 2011

**Dental Hygiene Refresher:
A Hands-On Program**
June 6–10, 2011

**Practical Periodontics:
A Hands-On Program**
June 15–17, 2011

JULY 2011

**Practical Prosthodontics
for the Dental Team:
Duluth, Minnesota**
July 16–17, 2011

AUGUST 2011

**46th Annual Dental
Assistants' Seminar**
August 12–13, 2011

**11th Annual Oral and
Maxillofacial Surgery
Review**
August 20–21, 2011

SEPTEMBER 2011

**Clinical Grand Rounds for the
Dental Team: Periodontics**
September 8, 2011

Fall Dental Hygiene Seminar
September 9, 2011

**Mini-residency in Nursing
Home and Long-Term Care
for the Dental Team**
September 14–17, 2011

**5th Annual Robert J. Feigal
Symposium: Contemporary
Perspectives in Pediatric
Pulp Therapy**
September 16, 2011

**TMD and Orofacial Pain
Miniresidency**
September 19–21, 2011

**Drugs, Herbals &
Nutraceuticals in Dentistry:
New Reports for 2011**
September 23, 2011

**Nitrous Oxide/Oxygen
Inhalation Sedation:
A Training Program**
September 23–24, 2011

**Esthetic Dentistry:
Keys to Success**
September 30, 2011

**Occlusion & Function—
Postgraduate Program in
Esthetic Dentistry: Level III**
September 30–October 2, 2011

OCTOBER 2011

**Clinical Grand Rounds
for the Dental Team:
Sleep Apnea and TMD**
October 6, 2011

**University of Minnesota Gold
Orthodontic Study Club**

October 14, December 9, 2011;
February 10, and April 13, 2012

**17th Annual Practice
Management Symposium:
Strategies for Peak Performance
& Increased Profit**
October 14, 2011

**Exposure Control, Infection
Control & Health Safety
in Dental Practice**
October 15, 2011

**Practical Tips in
Clinical Dentistry**
October 21, 2011

**Hi-Tech Endodontics
for the 21st Century:
A Lecture & Workshop**
October 22, 2011

**Office Oral Surgery:
A Guided Experience
for the General Dentist**
October 24–25, 2011

**Fall Recordkeeping Workshop
for the Dental Team**
October 27, 2011

**Practical Oral Surgery for
the General Practitioner:
A Lecture Program**
October 28, 2011

**Exodontia Techniques
Workshop**
October 29, 2011

NOVEMBER 2011

**Clinical Grand Rounds for
the Dental Team: Oral and
Maxillofacial Surgery**
November 3, 2011

**Fall Core Competency Day
for the Dental Team**
November 4, 2011

**Winter Dental
Assistants' Seminar**
November 5, 2011

**Postgraduate Program
in Esthetic Dentistry:
Level I (Weekend One)**
November 11–13, 2011

**Postgraduate Program in
Esthetic Dentistry: Level II—
Course One: Advanced
Diagnosis, Treatment
Planning and Photography**
November 11–13, 2011

**Clinical Oral Pathology for
Everyday Dental Practice**
November 18, 2011

**New Materials, Technologies
& Laser Training—
Postgraduate Program in
Esthetic Dentistry: Level III**
November 18–20, 2011

DECEMBER 2011

**Clinical Grand Rounds
for the Dental Team:
Pediatric Dentistry**
December 1, 2011

For more information

For more information, to register for classes and/or to request disability accommodations, contact:

Continuing Dental Education

6-406 Moos HS Tower
515 Delaware Street SE
University of Minnesota
Minneapolis, MN 55455

Phone:

(612) 625-1418
or (800) 685-1418

Fax:

(612) 624-8159

Website:

www.dentalce.umn.edu

Events Calendar

APRIL 2011

April 29 Dean's Reception & Alumni Award Recognition

5:30 p.m. to 8:00 p.m.
Saint Paul Hotel
St. Paul, Minn.

For information:
(612) 626-4184

April 28-30 Star of the North Meeting

Saint Paul RiverCentre
St. Paul, Minn.

For information:
(612) 767-8400

MAY 2011

May 3 University of Minnesota Alumni Association Annual Celebration

Cocktail Reception:
5:30 p.m. to 7:00 p.m.
Carlson School of
Management Atrium

Program: 7:30 p.m.
Ted Mann Concert Hall
Minneapolis, Minn.

For information:
www.MinnesotaAlumni.org

May 4-6 Montana Dental Association Annual Meeting

Helena, Mont.

Alumni Reception:
May 5, 5:15 p.m.
Red Lion Colonial Hotel

Annual Session information:
(406) 443-2061
Alumni Reception information:
(612) 625-5751

May 12 School of Dentistry Senior Banquet & Awards Ceremony (for DDS students, by invitation only)

Awards Ceremony: 5:00 p.m.
Banquet & Program: 6:00 p.m.

Nicollet Island Pavilion
40 Power Street
Minneapolis, Minn.

For information:
(612) 625-8947

May 12-14 South Dakota Dental Association Annual Meeting

Sheraton & Sioux Falls
Convention Center
Sioux Falls, S.D.

*University of Minnesota
School of Dentistry breakfast
for alumni & friends:*

May 14
7:00 a.m. to 8:00 a.m.
Sheraton & Sioux Falls
Convention Center

Annual session information:
(605) 224-9133
Alumni reception information:
(612) 625-5751

May 13 School of Dentistry Graduation

3:00 p.m.
Mariucci Arena
Minneapolis, Minn.

Commencement Speaker:
Raymond Gist, D.D.S.
ADA President

For information:
(612) 625-8947

JULY 2011

July 28 School of Dentistry Senior Banquet

(for dental hygiene students,
by invitation only)

5:00 p.m.
TCF Bank Stadium
Minneapolis Campus

For information:
(612) 625-8947

July 15 17th Annual School of Dentistry Alumni Society Golf Classic

8:00 a.m. Shotgun Start
Majestic Oaks Golf Club
701 Bunker Lake Blvd.
Ham Lake, Minn.

For information and registration:
www.dentistry.umn.edu/alumni

17th Annual Golf Classic

Friday, July 15, 2011

Please mark your calendars to join
us for the School of Dentistry
Alumni Society Golf Classic!

Show your maroon and gold spirit
on Friday, July 15, 2011 at a truly fun
event at the Majestic Oaks Golf Club.
Enjoy the best of Minnesota summer with
some friendly competition, prizes, and a
barbecue lunch. From singles to foursomes,
beginner to pro, all are welcome! Stop by our
booth at the Star of the North Meeting, visit us
online at www.dentistry.umn.edu/alumni/, or call
(612) 625-6164 for more information.



SEPTEMBER 2011

September 15-17 North Dakota Dental Association Annual Session

Grand Forks, N.D.

School of Dentistry Reception:
(to be announced)

For annual session information:
(701) 223-8870

For alumni reception
information: (612) 625-5751

September 16 White Coat Ceremony

2:00 p.m.
Ted Mann Theater
University of Minnesota
West Bank Campus
Minneapolis, Minn.

For information:
(612) 625-8947

OCTOBER 2011

October 10-13 American Dental Association Meeting

Mandalay Bay Hotel
Las Vegas, NV

Alumni Reception:
October 11
5:30 p.m. to 7:30 p.m.
Mandalay Bay Hotel

October 16-22 Homecoming Week

Parade: October 21

Homecoming Game:
October 22
Minnesota Gopher vs.
University of Nebraska

For more information

Except where noted,
you can obtain further
information on the events
listed and/or request
disability accommodations
by contacting:

Annie Pearson

Director, Alumni Relations
and Community Engagement
(612) 625-6164
penno008@umn.edu

To stay informed about
events at the University
of Minnesota, see the
Twin Cities Campus
Event Calendar at
www.events.tc.umn.edu

2010 Donors

Dear Friends,

You've read in this magazine a great deal of good news from your School of Dentistry. We anticipate more developments in the near future, with help from our supporters and our donors listed here.

Coming attractions include a new pediatric dentistry clinic, to be located adjacent to the soon-to-open Amplatz Children's Hospital on the University of Minnesota Medical Center, Fairview campus. We are seeking \$4.5 million to build this hospital-based pediatric dental clinic through the recently launched Pediatric Dentistry Clinic Campaign.

In addition, we are halfway to our goal of \$600,000 for the Student Summer Research Campaign. This permanent fund will provide annual support for stipends and travel awards each summer to enrich the education and enhance the careers of our students. This top-priority campaign for our dental school ensures our continued excellence in teaching.

Also new in advancing the School of Dentistry is our Dean's Circle. Last year, we launched this initiative to encourage and recognize annual gifts of \$1,000 or more to the Dentistry Fund for Achievement. More than 50 donors have stepped into the Dean's Circle. Their gifts allow the school to respond to unanticipated needs and opportunities. The impact of their donations even reaches beyond the walls of Moos Tower to be felt in every community we serve. Thank you to everyone who has joined this circle. If you have not joined and would like more information, please

contact Emily Best at 612-625-6811 or emilyj@umn.edu.

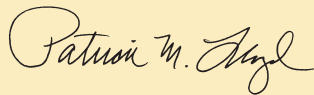
Our outreach to alumni and other potential donors had great results in 2010. If you took the time to speak to a student, to respond to a letter or to hit Reply on an e-mail—Thank you!

Last year generous gifts supported scholarships for our students, faculty development opportunities and technology enhancements for the entire school. You helped students pursue their dental education and faculty enhance their teaching and conduct exceptional research. At the same time, you enhanced access to dental care for thousands of patients in underserved communities throughout the state.

Your philanthropic support is vital to our continued success and leadership as a dental school. We simply could not do it without you.

Thank you for giving in 2010. I hope that you will renew your support in 2011. As always, we continue in our commitment to setting the standard in dental education, research and service, and promise to be good stewards and reward your trust in us.

Sincerely,



PATRICK M. LLOYD, D.D.S., M.S.
Dean

We strive for accuracy when preparing these lists and apologize for any errors that may appear. We invite you to notify the Development Office at (612) 625-1657 to make any corrections.

Donors to the School of Dentistry in 2010

This list is based on outright gifts, pledge payments and deferred pledge payments.

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The Presidents Club recognizes the University's most generous benefactors.

+ Dean's Circle Members
Membership is determined by an annual gift of \$1,000 or more to the Dentistry Fund for Achievement.

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