

UNIVERSITY OF MINNESOTA

# Dentistry

FOR ALUMNI OF THE SCHOOL OF DENTISTRY  
SPRING 2006



## About Face

In its 13-year history, the Robert J. Gorlin Conference on Dysmorphology has traveled around the body. This year, it finished at the top.



# from the Dean

## Dear Colleagues,

On March 16, after several months of meetings, discussions, and visits, all of our hard work and effort yielded amazing results. A group of us from the School of Dentistry met with officials from 3M Foundation and their dental division to receive the first of two installments on a million dollar award to support the renovation of our pre-clinical labs. It was an exciting moment—unprecedented—but most of all, a proud moment.

To commemorate and personalize the day, we gathered for a large-group photo of about 13 people to document the check presentation event. Then, we photographed smaller groups for specific use in public relations materials—ours and theirs—and took photos of us receiving the check.

3M hosted a luncheon in one of their private dining rooms. People were staggered around the table so that School of Dentistry and 3M representatives had plenty of opportunities to mix. I had the perfect vantage point—I could see everyone and even occasionally hear who was talking about what.

After the meal, we were all invited to share our thoughts and perspectives on the significance of the event. Some described the history of 3M's support for our school's education, research, and service missions. Others commented that the school's original presentation to the 3M Foundation provided a solid case for supporting the project based on strong professional and societal goals. And we learned how valuable was the role of President Bruininks' advocacy and financial commitment and how helpful was the University's Foundation in guiding us through the process.

When it was my turn to speak, I thanked the many people who had taken part in the process, expressing gratitude on behalf of our students and faculty of today and for those who will benefit in the future. I tried to express how much I personally appreciated their patience, persistence and encouragement as we worked hard to present our best case for support. I ended my comments by saying, as passionately as I could, "It's all about building relationships and accepting responsibility."

Out of all we achieved in our discussions with 3M Foundation these past several months, nothing is more important than the relationships we built in the process. The time and effort expended allowed each and every person to better understand not only the purpose of our project and who would benefit, but also the mutually supportive goals and ambitions of both organizations. We got to know each other, and developed confidence, trust, and an appreciation of the responsibility we share to those who depend on us—our patients, our customers, and above all the public. What a grand day it was—an amazing experience and a special time for our School.

During my travels around the Twin Cities, trips across the state, and visits with people all over the country, I've tried to do just what I talked about at 3M—build relationships based on an understanding of our shared experiences, interests, responsibilities, and goals. Most important, I try always to identify ways we can all work together to better educate dental professionals and to improve the oral health of citizens of Minnesota and the region.

Whether it's a get-together with students to discuss tuition, a conversation with staff about plans for one of the clinics, a dinner with a grateful alum who wants to know more about our curriculum, or a meeting with the Board of Dentistry to review an issue on licensure, I view each discussion as an opportunity to build understanding, trusting relationships, and a shared commitment and responsibility to our profession, our patients, and our greater community. I look forward to my next opportunity to meet with you.

Sincerely,

**PATRICK M. LLOYD**

*Dean*

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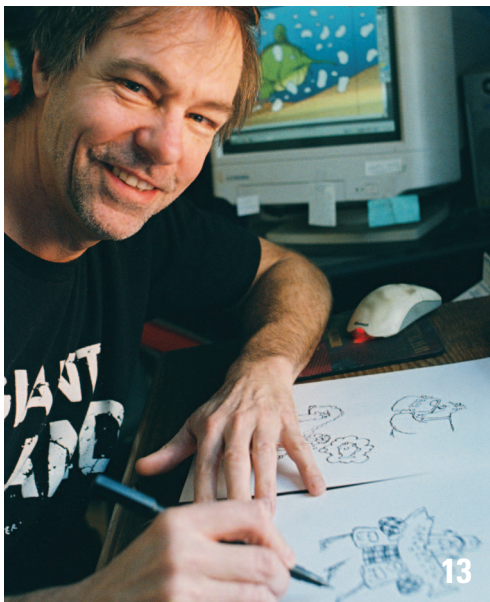
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### 16 2005 Community Report

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On the Cover: Regents Professor Emeritus Robert Gorlin was host for the school's 13th annual Dysmorphology Conference.

*In the Fall 2005 issue of Dentistry, photos from the University of Pennsylvania School of Dental Medicine were published without permission in connection with an article on simulation technology clinics. The University of Minnesota School of Dentistry apologizes for its error.*



*Dentistry* is published two times a year for the alumni and friends of the University of Minnesota School of Dentistry. We welcome suggestions and letters. Please send them to *Dentistry* magazine, School of Dentistry, University of Minnesota, 15-136A Moos Tower, 515 Delaware Street SE, Minneapolis, MN 55455 or to [kante008@umn.edu](mailto:kante008@umn.edu).

For more information about the School of Dentistry and its programs, refer to the Web site at [www.dentistry.umn.edu](http://www.dentistry.umn.edu). ©2006 University of Minnesota School of Dentistry.

**UNIVERSITY OF MINNESOTA  
SCHOOL OF DENTISTRY  
DENTISTRY MAGAZINE**

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# News Bites

## 3M GIVES \$1 MILLION TO SCHOOL OF DENTISTRY TO RENOVATE TEACHING LABS Simulation Technology Will Make the U-M the Best Equipped in the Big Ten

The University of Minnesota School of Dentistry has received a gift of \$1 million from the 3M Foundation to renovate its pre-clinical teaching labs for first- and second-year dental students. This is the lead gift toward a \$10.5 million project that will revolutionize dental education at the University of Minnesota and position the U-M as the best equipped pre-clinical dental lab in the Big Ten.

to our goal of raising \$10.5 million, it demonstrates to all the importance of the project. As Minnesota's only dental school, we have a far-reaching responsibility to educate tomorrow's dental professionals in a way that most efficiently and effectively prepares them to treat patients."

"Our gift to the School of Dentistry builds on our commitment to education and to the residents of Minnesota," says



Accepting the lead gift from 3M Foundation are, (L to R): Dean Patrick Lloyd, Judy Kirk (U-M Foundation), Alex Cirillo (3M Foundation) and Tom Engels (3M ESPE).

The university plans to renovate the school's teaching laboratories and replace out-dated instructional equipment with patient mannequins, authentic operator equipment, and virtual reality-based simulation technology. The new facilities will create a realistic clinical environment, providing lifelike patient experiences for beginning dental students. It will also incorporate interactive multimedia to give students real-time feedback on their performance. Research shows that students learn better and faster with the new educational technology.

"We are overwhelmed by 3M's generosity," says School of Dentistry dean Patrick Lloyd. "Their gift is important in so many ways. It not only gets us closer

Alex Cirillo, vice president for community affairs at 3M. "We are pleased to make this investment in students and their success in the field of dentistry. We also hope this gift encourages others to support this important project, which benefits so many people because of the role the university plays in training Minnesota's dental practitioners and providing continuing dental education to practicing professionals in the region."

The University of Minnesota educates nearly 80 percent of the state's practicing dentists and 60 percent of its dental specialists. Dental students typically spend their first two years studying biomedical sciences and biomaterials, and practicing on models to fine-tune the eye-hand

coordination and manual dexterity skills they'll need to practice dentistry. Third and fourth-year students treat patients in the school's on-campus dental clinics.

Computer-based teaching technology has revolutionized educational programs across a variety of professions. According to Judith Buchanan, associate dean for Academic Affairs in the School of Dentistry, who has conducted research on dental simulation technology since 1998, the educational benefits of advanced simulation equipment are unmatched. "It combines life-like patients and computerized, 3-D images to create a virtual reality-based environment that introduces students to the complexities of patient care without having a real patient present. From day one, students learn faster and better."

According to Dean Lloyd, the new technology also allows for self-paced learning, which means that faster learners will transition more quickly into patient care experiences. Ultimately, the school plans to move senior dental students into rotations at community-based educational facilities around the state, such as the ones located in north and south Minneapolis, Hibbing, and a soon-to-be educational facility in Willmar. "By 2007, I expect every dental student to spend at least eight weeks in community clinics around the state," says Lloyd.

The planned renovation will combine both patient simulation equipment and virtual reality-based technology, making it the most advanced teaching lab among the Big Ten schools. The project involves renovating 11,200 square feet on the fourth floor of Moos Tower and building 120 advanced workstations.

The \$10.5 million project will be funded through a combination of private, university and legislative funding. This includes \$7.5 million to be raised from private and potential legislative support.

## High School Students Go to Dental School

The School of Dentistry recently hosted a group of 18 high school students from southwest and northeast Minnesota. On campus with their teachers and guidance counselors to explore options in health careers, the students met with both faculty and dental students to talk about careers in dentistry and dental hygiene, dental education and research.

Students learned about the classes they'll need to take in high school and college if they want to pursue a dental career, as well as information about what it's like to go to dental school. Pairs of high schoolers then teamed with current dental students for hands-on clinical experiences that included tooth preps and restorations on a typodont and placing dental sealants on a natural tooth.



The best way to learn about dentistry is by 'doing' dentistry. High school students visited the dental school for a bit of first-hand experience.

The student visits were coordinated by the U-M Health Careers Center in cooperation with Minnesota Area Health Education Center (AHEC), a developing statewide network of community and academic partners working to promote rural health educational opportunities and address health workforce challenges unique to specific areas of the state.

Through regional partnerships, the University of Minnesota and its Academic Health Center schools are working with communities on strategies to ensure a vital health professions workforce into the future.

## CLOSING DISTANCES: School of Dentistry Introduces Teledentistry Program

Telemedicine programs have come a long way since their creation decades ago as a space age tool to monitor the health of astronauts. Today, the services of distance monitoring, diagnosis and health care consultations are available to residents right here on earth. For some Minnesota dentists and their patients, the services are now local.

Utilizing state-of-the-art telecommunication technologies, such as videoconferencing and electronic patient record systems, School of Dentistry faculty and specialists in Minneapolis can now consult in real-time with patients and practitioners who are on-site at the school's Hibbing clinic on the campus of the Hibbing Community College.

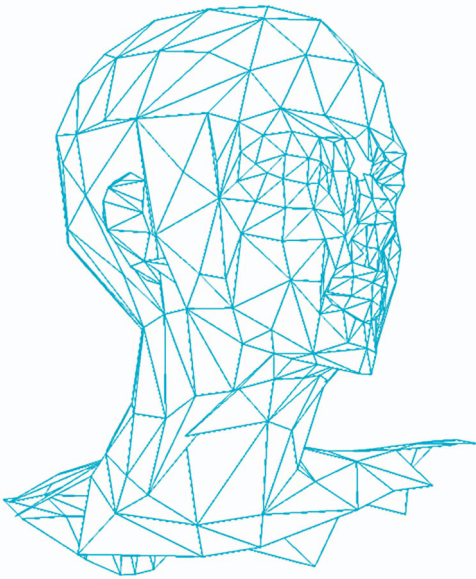
Patients who need to "see" a University dental specialist can do so via direct video conference. The dental specialist performs a live consultation with the patient, and the specialist, the patient's dentist or the dentist at a local teledentistry clinic, treats the patient.

The School of Dentistry's teledentistry program makes it possible for patients in greater Minnesota to access University expertise and specialized services, and for local practitioners to consult with faculty on diagnosis and treatment questions.

Consults are available for those in need of expertise in the areas of TMD/orofacial pain, oral medicine, oral pathology, oral and maxillofacial radiology, and health psychology. Consults can also be arranged with School of Dentistry dental specialists in other disciplines.

In addition to providing live consults, the teledentistry service can also be used for conferencing and communicating with colleagues, case and group discussions with participants at a distance, and presentations.

The teledentistry program is funded by the Minnesota Department of Health and the University of Minnesota School of Dentistry. For more information, call 612-626-3562 or email [teledent@tc.umn.edu](mailto:teledent@tc.umn.edu).



# About Face

In its 13-year history, the Robert J. Gorlin Conference on Dysmorphology has traveled around the body. This year, it finished at the top.

BY TERRI PETERSON SMITH

**O**ften, it's when nature departs from the norm that we gain the greatest understanding of how the natural world works. As the noted embryologist William Harvey so eloquently wrote in 1657, "Nature is nowhere more accustomed openly to display her secret mysteries than in cases where she shows traces of her working apart from the beaten path; nor is there any better way to advance the proper practice of medicine than to give our minds to the discovery of the usual law of Nature by careful investigation of cases of rarer forms of disease."

Regents Professor Emeritus Robert Gorlin has made this thoughtful inspection of Nature's rarer forms of disease his life's work. He is a world authority on syndromes, defined as a group of symptoms that collectively indicate or characterize a disease, psychological disorder, or other abnormal condition. For six decades, he has studied physical malformations for the insights they offer into the mechanisms that govern normal development of humans and animals, the clues they provide about the prevention and repair of birth defects, and as the answer to some of the most fundamental questions of biology. The topic of abnormal development has also been the focus

of the annual "Robert J. Gorlin Conference on Dysmorphology" over its 13-year run.

Each year since 1991, the conference has attracted clinicians and basic scientists with mutual interest in the broad field of dysmorphology (more commonly known as the study of birth anomalies). They have included dentists, pediatric dentists, orthodontists, pediatricians and medical geneticists. The conference has drawn participants locally and from around the world. "I come to the conference because the speakers are the world's best in this field," says alum Nick Kantaputra (M.S. Dentistry '91), now of the University of Thailand School of Dentistry. "It's like Hollywood."

## Launching the Conference

There's no better person to spearhead such a conference than Gorlin. He literally wrote the book on genetic defects. *Syndromes of the Head and Neck*, published by Oxford University Press, is now in its fourth edition and is used worldwide as the text for geneticists. He was named a Senior Fellow in the Institute of Medicine of the National Academy of Science, received the Premio Anni Verdi Award (the Italian Prize for Medical Genetics), and the ADA's Norton M. Ross Award for excellence in clinical research. He also received an honorary Doctor of Science from the University of Minnesota, the University's highest honor. He has

authored over 600 journal articles and named 90 syndromes caused by genetic defects.

Though he still works full time, Gorlin officially retired from the University of Minnesota in 1993 at age 70 as Regents Professor Emeritus. By that time, he had amassed over 50,000 color transparencies of birth anomalies, most of them developmental abnormalities of the facial area or of syndromes that were craniofacial.

Guilan Norouzi, a former student of Gorlin's from Iran who graduated with an M.S. in general dentistry ('79) and is now a general practitioner near St. Louis, Missouri, proposed that a museum be created to house this valuable material. "Instead," says Gorlin, "I suggested that under the aegis of Dr. Raoul Hennekam [senior editor of Gorlin's book], the material could be converted into several CD-ROMs to accompany the next edition of *Syndromes of the Head and Neck* which should appear sometime in 2008 or 2009." He also noted that what was truly needed was a conference "to bring basic scientists and clinicians from all over the world together to 'mutually infect' one another."

It was this casual conversation and observation that launched the Gorlin Dysmorphology Conference, an annual event that has emerged as not only a fitting tribute to Gorlin's work, but also as an opportunity for an international



(L to R) Michael Cohen of Dalhousie University in Nova Scotia; Raoul Hennekam of University College, London, England; and Robert Gorlin.

community of colleagues to share leading edge knowledge in the burgeoning fields of dysmorphology and developmental biology. Says Dean Patrick Lloyd, “For 13 years the conference has brought pre-eminent researchers and clinicians from around world to the University of Minnesota to hear the latest discoveries in molecular biology and human genetics. As the patriarch of the conference, Dr. Gorlin has been central to its success. His international reputation has made the School of Dentistry a focal point for those interested in developmental anomalies. He has helped shape the discipline of dysmorphology and inspired a generation of researchers as well as medical and dental practitioners to be more inquisitive, observant and insightful about developmental biology.”

### **This Year: It’s All in Your Head**

Each year of the conference, a group of world-renowned experts has been invited to address specific organ systems from the standpoint of molecular development.

The first year, the conference focused on the extremities. The second conference featured the skin and mucosa. Subsequent conferences included mesoderm, kidneys and gonads, bone and its dysplasias,

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**“I come to the conference because the speakers are the world’s best in this field. It’s like Hollywood.”**

— NICK KANTAPUTRA

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overgrowth syndromes and asymmetry, and the limbs. Gorlin focused the final conference on the head and teeth.

One area that presenters addressed at that this year’s conference was the rapid progress scientists are making in mapping specific sites on genes where mutations have occurred and the craniofacial defects that occur as a result. Their success has led to a better understanding of tooth

development at the genetic level. Says Gorlin, “When the conference started thirteen years ago, the process of gene mapping was tedious. It involved the use of small snippets of DNA chopped into pieces by very specific bacterial enzymes. To map relatively large genes could take two or more years. But, now that the Human Genome Project has mapped the entire complement of man’s inheritance, it is possible to localize disease-causing mutations in a very small fraction of the time it used to take, in some cases only a few weeks. What an amazing difference 13 years make!”

The 2005 conference was dedicated to Gorlin’s late School of Dentistry colleague Carl Witkop, who was a professor of oral pathology. Early in the 1970s, Witkop recognized the diverse nature of amelogenesis imperfecta, or defective genetic enamel formation. Until that point it had been considered a “simple” disorder. Witkop and his colleague, Associate Professor of Oral Pathology John Sauk, reexamined the entire body of literature

on the topic and organized the various forms into three major types: hypoplastic (hard but insufficient in amount), hypocalcified (soft and discolored due to insufficient mineralization) and hypomature (somewhat soft but chipable).

They further broke each of these categories according to genetic patterns (autosomal and x-linked dominant and recessive) and clinical descriptions (pitted, local, smooth, rough, pigmented and snow-capped). These 12 distinct forms gradually grew over the years to 16 types. At the conference, J. Timothy Wright of the University of North Carolina's School of Dentistry, discussed how each of these types has now been mapped to a specific chromosome and the gene defect pinpointed.

The study of dentin dysplasia has also broadened as a result of gene mapping. Mary McDougall, director of the Institute of Oral Health Research at the University

University of Helsinki, Finland, and Rene D'Souza of the University of Texas Health Science Center in Houston. They reported that, most of the time, the failure of teeth to form is an isolated occurrence. But, in other instances, it is part of a syndrome, attributable to mutations in, for example, the MSX1 and PAX9 genes. MSX1 is found to be mutated in several conditions, including genetic agenesis of second premolars and molars in Witkop Syndrome. The syndrome's characteristics include not only the absence of premolars, as well as first and third molars, but also scooped out finger and toenails. PAX mutations principally prevent molar development.

### A Rapidly Developing Field

Another important aspect of dysmorphology is the role of growth factors. Growth factors is a term broadly used to

describe the range of structurally diverse molecular families and individual proteins best known for their ability to enhance cell proliferation and growth.

Scientists have understood the function of growth factors, at least in part, since the 1940s. Now, their influence in development of the craniofacial region (and especially teeth) has reached a stage where researchers have

pinpointed the specific sequence of events that takes place. Irma Thesleff and Jill Helms, a 1986 graduate of the University of Minnesota School of Dentistry and now associate professor in the Department of Surgery at Stanford University, presented their growth factor-related research. Helms discussed the molecular and cellular mechanisms regulating craniofacial development and the causes of inherited and non-heritable genetic mutations or malformations in the developing fetus that result in craniofacial defects. Thesleff, a leading scientist in the development of teeth and other organs

with a similar development pattern, discussed the regulation of tissue development and intercellular communication.

Gorlin says, "When I was in dental school, if someone had asked me if cells talk to each other, I would probably have answered that glands produce hormones that tell cells in other parts of the body to respond in a certain way. Actually, cells

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**"Now that the Human Genome Project has mapped the entire complement of man's inheritance, it is possible to localize disease-causing mutations in a very small fraction of the time it used to take, in some cases only a few weeks."**

— ROBERT GORLIN

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talk to adjacent cells and to themselves *all* the time." These conversations may stimulate growth at one concentration and inhibit growth at another. Says Thesleff, "All currently known genes that affect the position, shape, or number of teeth also have developmental regulatory function in other tissues."

In addition to cell proliferation and growth regulation, growth factor messages may influence everything from cell survival, migration and differentiation, to a host of other functions. Fibroblast growth factors, for example, are involved in a huge spectrum of craniosutural and skeletal syndromes. Andrew Wilkie, of the Weatherall Institute of Molecular Medicine at John Radcliffe Hospital in Oxford, England, discussed the molecular basis for sutural closure of the skull and the molecular defect in the genetic disorder craniofrontonasal dysplasia (a rare inherited disorder causing abnormalities of the head and face, hands and feet, and skeletal bones).

Also on the conference agenda was an update on a more familiar birth defect—cleft lip and palate, which now comprise the most common birth defects in the United States according to a report issued in January by the Centers for Disease Control in Atlanta. In 2001, when Gorlin



(L to R) Giovanni Neri (Catholic University in Rome, Italy) talks with Lewis Barnes, emeritus professor of Pediatrics, University of Pennsylvania School of Medicine; and Enid Gilbert-Barness, professor of pathology, laboratory medicine and pediatrics at the University of Florida College of Medicine.

of Alabama School of Dentistry, discussed the progress researchers have made in the study of the dysplasias of dentin, including recent success in mapping genes that account for dentinogenesis imperfecta (a condition in which teeth look like frosted light bulbs), and two other forms of dentin dysplasia.

In addition to genetic tooth defects, conference presenters highlighted another area of emergent interest—the failure of specific teeth to form at all. Two great contributors to the field were on-hand to address the issue: Irma Thesleff of the Institute of Biotechnology at the



and his coauthors published the last issue of *Syndromes of the Head and Neck*, they estimated about 20 percent of cleft lip and palate was syndrome-related. Scientists had found at least 350 syndromes involving clefting. The remaining 80 percent are multifactorial, due to defects in literally dozens of other genes, some with large effects, some with small. Jeffrey Murray of the Department of Pediatrics at the University of Iowa, presented a discussion of the intricacies of clefting and the genes playing various roles.

Advances in identifying genetic implications for periodontal disease were also discussed, including the findings of Thomas Hart of the National Institute of Dental and Craniofacial Research and his coworkers who have, within the past few years, shown that juvenile periodontal disease, Papillon-Lefevre syndrome and Haim-Munk syndrome are all due to recessive mutations in the same gene.”

So, what is the current state of developmental biology and dysmorphology? Thesleff summarized her view of the field in her 2003 *Quintessence International* article, (volume 34, number 8) “Developmental Biology and Building a Tooth.” She said, “There is now great hope that the knowledge on molecules driving tissue and organ development and cell differentiation will lead to tools for tissue regeneration and stem cell therapies in the future. It may even be possible to grow whole new organs, such as teeth.”

Joyce Anacker, a private practitioner in Reno, Nevada and Nick Kantaputra of the University of Thailand School of Dentistry.



## Through Students, a Legacy

One legacy of Gorlin’s career as researcher and educator is that the medical and dental practitioners and the basic scientists who have attended the conference will continue to “infect” each other and further the field of dysmorphology far into the future. Yet, his most enduring legacy may be the students he has taught at the University of Minnesota as they

care for patients, support further research at the University, and conduct research themselves. For example, Guilan Norouzi and her late father, Hassan Norouzi, endowed the Robert J. Gorlin Chair in Dysmorphology at the University of Minnesota and also sponsored the 13 years of annual dysmorphology

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**“If we understand how the face is normally built, we may find genetic and molecular solutions to repair defects *in utero*.”**

— JILL HELMS

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conferences. “Alumni gifts such as the generous contribution from Dr. Norouzi help to enhance the level of teaching and research at the school, and her specific gift in honor of Dr. Gorlin has brought renowned international researchers to the school to share their research and ideas,” says School of Dentistry Development Officer Fred Bertschinger.

Norouzi became interested in the University of Minnesota as a college student in her native Iran. “I had met Dr. James Jensen [who was then associate dean for Academic Affairs of the U-M dental school] when he was a visiting professor at the National University of Iran. My family encouraged me to go to the U.S. to study. It was a life-changing experience.” She says that Gorlin became her friend and mentor soon after she



School of Dentistry graduate Jill Helms, associate professor in the Department of Plastic Surgery at Stanford University, reported on her research into growth factors and facial development.

enrolled for a graduate residency at the University of Minnesota in 1974. “I met Dr. Gorlin in the elevator,” she says, “and he spoke to me in Farsi. It was the beginning of a beautiful relationship. He was so kind and made me comfortable. He was that way with all students. He treats the parking lot attendant or freshman student like his most respected colleague.”

Gorlin’s influence led another alumna, Jill Helms, to follow in his footsteps as a researcher. But why spend a career studying developmental defects? She explains, “We gain insight from disruption.” For her, that insight leads in two directions: basic science and practical application. “First is the conceptual question,” she says. “Research tells us that all vertebrate species share the same molecular machinery. Embryos, whether human or animal, all look identical. But, in a few days, they develop distinctive features. How does that come about?”

Another goal is the prevention and correction of birth defects. “We can describe the process but don’t have the molecular road map. If we understand how the face is normally built, we may find genetic and molecular solutions to repair defects *in utero*. In my lab, we’re attempting to understand the roadmap that molecules use to build the human face.”

She recalls her days as Gorlin’s student and how he helped spark her interest in research: “I was entranced by his work and the stories he told. He planted a seed. It shows you how people influence students when they don’t even know it.” ☉

# A Lifetime of Contribution

Community outreach is moving to new levels and new places.

BY TERRI PETERSON SMITH



on is a young man with developmental disabilities. Until recently, he also dealt with another disability that he found to be particularly distressing:

He was so embarrassed about the appearance of his teeth that he looked at the ground and covered his mouth when he talked. He rarely smiled.

Yet, Ron is fortunate. He is a Special Olympics athlete and the volunteer dentists and hygienists who provide dental screenings and education for the Special Olympics' Special Smiles program intervened on his behalf.

Carol Dahlke ('84), a graduate of the dental school's Program in Dental Hygiene and a current student in the Dental Hygiene Degree Completion Program, started Minnesota's Special Smiles program. She says Ron had never had his teeth cleaned and needed four extractions. "Dan Sampson ('91) and my boss, John Cretzmeyer ('75), did the

work. Now, Ron is proud of his appearance and even got a promotion at work."

Ron's experience is all too common for thousands of people across the state who have little or no access to dental care. It's an often-discussed problem in Minnesota and throughout the country, and a seemingly intractable one at that.

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**"It's about more than what you can learn in classes. These are life lessons."**

— CAROL DAHLKE

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Nevertheless, the School of Dentistry and its students and alumni are seizing the initiative to do more about it. And, the ways in which they are tackling the problem are as varied as the patients themselves.

The School of Dentistry has a strong commitment to community outreach, grounded in a tradition that dates back

to the late 1960s when dental students traveled to Cambridge to treat patients in a state hospital for the developmentally disabled. In recent years, students and faculty have traversed the state—sometimes with portable equipment loaded into the back of a University van—to treat the children of Minnesota's migrant farm workers, public program patients in greater Minnesota, the homeless at a Twin Cities' shelter, and patients from more than 20 metropolitan nursing homes. Dean Patrick Lloyd believes that introducing students to special needs populations can launch a lifelong interest in giving back to the community.

## Part of the Curriculum

Says School of Dentistry Associate Dean Judith Buchanan, "Community outreach experiences are required as a condition of graduation, for both dental students and dental hygiene students. Students spend time in community clinics treating patients under faculty supervision. These community-based educational experi-



More than 200 patients received treatment at the School of Dentistry from volunteer dental and dental hygiene students, dental residents, faculty and staff on Give Kids a Smile Day.

ences allow students to fine-tune their clinical skills and, at the same time, develop a sensitivity to the issues of special needs populations and an understanding of the role dental professionals have in addressing those needs.”

Says Buchanan, “We currently offer students several opportunities to gain this experience, through week-long rotations in a Twin Cities’ community clinic or longer trips to sites in greater Minnesota. And we’re standardizing the clinical and patient management experiences students receive.”

As of August 2005, Paul Schulz (’86) leads that effort. He serves as the school’s director of outreach and director of the mobile dental unit. He says, “In order to promote consistency of instruction and evaluation at extramural sites, adjunct faculty will participate in a two-day faculty development course to become familiar with the teaching methods and evaluation criteria used in the clinics at the school. Also, a student outreach record has been developed for students to track the age,

gender, ethnicity and special needs of the patients they treat in the outreach experiences.”

According to Schulz, the school is enhancing the scope of its outreach activities in several ways. First, the requirement for time spent in clinical outreach experiences is increasing. Says Schulz, “Now, dental students are required to spend between three and four weeks in community outreach activities. By 2007, the requirement will increase to eight weeks.”

The school is also expanding its relationship with community clinics. In addition to its clinic located on the Hibbing Community College campus, the school recently established new community-based educational programs with NorthPoint Health and Wellness Center in north Minneapolis and with Community University Health Care Center in south Minneapolis.

Another expansion is on the horizon, this time in partnership with Rice Memorial Hospital in Willmar, Minnesota, where the school is helping

to create an educational facility to be staffed by fourth year dental and dental hygiene students.

Yet, creating more opportunities is a complex process. A carefully designed outreach program involves more than sending students forth with lab coats and good intentions. They must have careful and consistent supervision as well as all the scheduling support, expensive equipment and paperwork that any dental office requires. Such programs require carefully constructed and managed partnerships with local dentists, existing health care facilities and educational institutions, and above all, funding. To date, the school has four formal programs in place around the state. See “*Community Ties*” on page 11.

### **Smiling Kids and Students**

The enthusiasm of student volunteers seems to validate the school’s belief that early volunteer experiences ignite the spark of lifelong giving. It could be seen in the halls of the dental school on ☺

Give Kids a Smile Day. Held each year in February, Give Kids a Smile Day is a national event created to call attention to the growing need of low income people who cannot access dental services.

The School of Dentistry's involvement with the event started in 2003 when students conducted dental screenings at Green Elementary School in Minneapolis. The following year, students visited elementary classrooms for presentations on oral health.

Fourth year dental student Carly Grothe liked the idea of the national event so much she suggested the dental school bring the event in-house and treat patients. She coordinated a pilot program at the school last year that met with great success, and expanded the project this year. By 9:00 a.m. on Saturday, February 4, the reception room at the school was

for consults and treatment. "There's such a lack of access to care," says Grothe, "and kids get the brunt of it. Some of these kids have never been to a dentist. It's amazing to see so much decay. But when we're done, they leave with a smile."

Give Kids a Smile Day provides valuable clinical and patient management experience for students, as well. Says Grothe, "First and second year students escort children to the clinic. It may be a first year student's introductory experience in the clinic." The event also gives first through fourth-year students a unique chance to meet each other and work together. She says she enjoys the camaraderie as well as the satisfaction of helping children.

Senior dental hygiene student Lanette Wedell organized the efforts of dental

She says, "I believe we have an obligation to serve the community. It's a requirement of the profession that we work to give back to the community." Both Grothe and Wedell are so committed

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**"I believe we have an obligation to serve the community. It's a requirement of the profession that we work to give back to the community."**

— LANETTE WEDELL

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to this type of community outreach that when they job-hunt after graduation, a potential employer's commitment to doing pro bono work will be a major selling point in choosing a place to work.

### Special Olympics, Special Smiles

People with intellectual disabilities are some of the most overlooked when it comes to dental care. Says Carol Dahlke, "Many Special Olympics athletes are on medical assistance, so reimbursement is low. Also, this is an older and more independent group of people, so they may not have someone watching over their dental care and they don't know they need it."

Special Olympics, as it turns out, is one of the best ways to connect with this hard-to-reach group. The organization created the Special Smiles program specifically to increase access to dental care for all people with intellectual disabilities.

Dahlke was already involved in Special Olympics because she has a daughter with Down Syndrome. Then, she read about the Special Smiles program in the American Dental Hygienists' Association journal. Special Olympics locally didn't offer the program so she took up the cause and initiated Special Smiles in Minnesota in 2000. When more than 1,100 athletes competed in the 2005 Summer Games in Athletics at the University of Minnesota's Bierman Field and at the Minnetonka-Hopkins Gymnastics Association facility in Minnetonka, she and her team of 50 dental volunteers were there in force.

Special Smiles, one of the core components of the Special Olympics Healthy Athletes initiative, occurs in conjunction



Volunteer dentists and dental hygienists for Special Smiles at the fall Special Olympics games included some School of Dentistry faculty, dental students, dental residents and staff plus professionals from the community. Mike Schafhauser (back row, far left) and Carol Dahlke (front row, far right) coordinate the project in Minnesota.

overflowing and 54 chairs in its 6th floor dental clinics were bustling with children who came to receive free dental care.

According to Grothe, 215 patients between the ages of two and 18 came to the school and about 190 students, faculty and staff volunteered. Dental hygiene students provided patient education and cleanings, while dental students provided a full range of care, from restorations to root canals and extractions. Faculty were there to supervise; orthodontic, endodontic and pediatric residents were on-hand

hygiene students who staffed Give Kids a Smile Day at the School of Dentistry. She was also at the school's Hibbing clinic on February 10th when students treated 40 children. She says that the experience, along with her previous experience with Migradent, an outreach program that transported dental and dental hygiene students to greater Minnesota to treat the children of Minnesota's migrant workers, has honed her organizational and leadership skills. And she enjoys the hygienists' focus on prevention.

with Special Olympics competitions. The program relies on volunteer dentists and dental hygienists to provide dental screenings that increase awareness of oral health for the athletes themselves, as well as their parents or caregivers.

The athletes receive hygiene education to help ensure they do an adequate job of brushing and flossing, as well as nutritional education to understand how their diet affects their total health. The athletes also receive a list of dentists and clinics in their area who will treat patients with special needs, should they have difficulty finding a dentist. Volunteers also make mouth guards for the athletes.

Mike Schafhauser ('79) serves as a clinical director for Special Smiles in Minnesota. "Special Smiles," he says, "is part of a study on the needs of the disabled." Each athlete receives a dental screening and data is collected and compiled for analysis. This generates a snapshot of the oral health of a representative sample of the hundreds of thousands of Special Olympics athletes around the world. These data are used to encourage more dental schools to increase the special needs instruction they offer, and to demonstrate to governments at all levels that access to oral health providers for this population must be increased.

"This is a population of patients who will always need our help, yet some dentists are reluctant," says Schafhauser. "Disabled people sometimes can't communicate as well. They may have tremors, or other conditions, but it's usually not a problem. Volunteering at the Special Olympics helps dentists become comfortable with these patients. It's not a huge time commitment and the athletes and their families are very appreciative. I've had mothers crying over the phone because they were so happy that they have found someone to give dental care to their children."

"It's a great program," says Dahlke who was awarded the 2005 Outstanding Service Award by Special Olympics Minnesota. "Dental students from the U say 'sign me up next time.' It's delightful to be around the athletes because they're so positive. The experience provides a new appreciation of life. It's about more than what you can learn in classes. These are life lessons." ☺

## Community Ties

The School of Dentistry has four major outreach programs underway and one in the works. They are:

### **Community University Health Care Center (CUHCC)**

Located in south Minneapolis, the clinic provides dental, medical and mental health services to the under or uninsured. With a patient base that mirrors the diversity of the community and signage posted in seven languages, the clinic provides a unique experience in a clinical, multicultural, and multidisciplinary approach to the delivery of oral health care. One dental student at a time works at the clinic in two-week rotations.

### **Hibbing Community College Dental Clinic**

Established in 2002, the School of Dentistry's clinic in Hibbing is located 200 miles north of Minneapolis and is a joint venture between the dental school and Hibbing Community College. The patient population is primarily the low-income families of St. Louis, Lake, Cook and Carlton Counties; 60 percent are public program patients and 20 percent are uninsured patients. Dental students learn about rural practice and gain experience in clinical skills and in developing quality dental treatment plans to meet the oral health needs and financial constraints of low-income patients. The dental school sends 70 students a year to Hibbing, usually working in two-week rotations under the direction of faculty member Jerry Pedersen, a local dentist, formerly in private practice. The clinic has about 5,250 patient-visits a year.

### **UCare Tooth Care—Mobile Dental Unit**

In 2003, the School of Dentistry teamed with UCare Minnesota (an area HMO) to turn a 37-foot Winnebago into a dental office on wheels. Patients are UCare enrollees in the Minnesota Health Care Program. The unit's mission is to provide preventive services to children and adults, and to connect them to an oral health care provider in their community. The three-chair office travels the entire state, making daily trips from the school to cities around the metro area and week-long trips to communities outside the metro area including Duluth, Thief River Falls, Worthington, Winona and Willmar.

### **NorthPoint Health and Wellness Center**

In partnership with Hennepin County, NorthPoint is the newest addition to the school's outreach activities. This state-of-the-art dental clinic in North Minneapolis has electronic patient records, digital radiography, and 16 operatories with plans to add seven more. At NorthPoint, students have an opportunity to work in a fully integrated system of health, including medical, dental, mental health, and human services. By integrating these services on a single campus, NorthPoint is developing a holistic approach to addressing health disparities and social and economic inequalities. "Diversity of patients, the opportunity to work with dental assistants, and high technology—NorthPoint offers the whole package," says Paul Schulz. "Students see more types of patients in real-world situations. It's a wonderful 'win' all the way around. Students are beaming with pride in their work and patients are very grateful."

### **Rice Memorial Hospital Regional Dental Clinic**

This is the latest project in the pipeline as the School of Dentistry works to expand its outreach activities throughout the state. The clinic is currently "in the fundraising mode," according to Schulz. With funding from the Minnesota Department of Health and the University's Academic Health Center, the project is awaiting support from the state legislature. If the clinic moves forward, it will provide dental care to underserved populations in a 12-county area in west central and southwest Minnesota where on average, 17 percent of the population uses public health insurance programs. The school's key partner in the venture is Rice Memorial Hospital in Willmar. A full-time dentist, most likely someone from the practicing community, will lead the clinic. Four to six dental students and one or two dental hygiene students will rotate through the clinic year-round.

## Union Gospel Mission

When Roger Ettel ('80) was a second-year dental student, he did outreach work at the Union Gospel Mission in St. Paul and he's been volunteering there ever since. "When I was in school, the concept of 'giving back' wasn't so formally discussed. At the time, we saw volunteering as a chance to help people and to get extra experience," he says. Ettel's 20-plus years commitment is fueled by the experiences, camaraderie and the satisfaction of helping exceedingly grateful patients. "It's the right thing to do and it's fun to interact with the dental students and dentists from all over the state who volunteer."

He says that a destination such as the mission is the perfect place for dentists to do volunteer work, perhaps even better than their private practices. For the patients, the mission offers easier access, convenient hours and a comfort level that they may not feel in many suburban dental offices. And it's free.

insurance. They are often young adults and people with a lot of decay who have had no dental care at all. It's a very diverse group."

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**"Students see more types of patients in real-world situations. It's a wonderful 'win' all the way around. Students are beaming with pride in their work and patients are very grateful."**

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— PAUL SCHULZ

The school's relationship with the mission is also changing. "We had a loose working agreement for years," explains Ettel. But starting this spring there will be six to 12 dental students regularly scheduled, with Ettel as the liaison to

And, it's put to good use. "We have about 45 dentists who volunteer to treat patients. Monday night is a pain clinic. It's a busy, crazy night." He says it's not just an effort to alleviate pain. It can also help put some people's lives in better order. "I'd like the program to offer more restorative work. It's hard to get a job if you don't have any front teeth." The clinic is also open on Wednesday nights when dental students will volunteer and it will soon add Friday night hours. The mission has hired a full-time person to help expand and coordinate outreach efforts.

Ettel adds, "We're always looking for more dentists to participate. It would be easier to just write a check, but these patients need care," he says. "There will always be a need for this."

Schafhauser echoes that sentiment. In addition to Special Olympics, he treats medical assistance patients at St. Paul's United Hospital, an effort he equates with pro bono work. "I bring along a dental assistant and the payment doesn't even cover her salary. I've been president of the Minnesota Dental Association, so I understand both the politics and the health care realities of access challenges. It's a big issue, but as they say, many hands make a light load. The bottom line is, you're supposed to 'give back.' It's part of being a professional." ☉



Roger Ettel has volunteered at the Union Gospel Mission in St. Paul since he was a dental student.

While his dedication to serving at the Union Gospel Mission has remained the same, many things at the clinic are different from Ettel's student days. "The patient population has changed over the years," he says. "It used to be primarily homeless people. Now, the patients are more likely to be the working poor, people with no

the School of Dentistry. Students will be supervised by community dentists with adjunct faculty appointments. In addition, the mission's clinic has undergone a major remodeling with the help of Patterson Dental Supply, Inc. and the St. Paul District Dental Association. It's now a state-of-the-art facility.

## Get Involved!

Below are a few ways to contribute your professional services to those in need:

### Special Olympics Special Smiles

Contact: Kim Gelperin—  
*Healthy Athletes Program*  
Email: gelperink@somn.org  
Tel: (612) 333-0999

### Give Kids a Smile Day

*(Held in February)* Contact your state or local dental association. In Minnesota, contact: Minnesota Dental Association  
Tel: (651) 646-7454

### Union Gospel Mission

Contact: Tiffany Moore  
Tel: (651) 292-1721, ext. 113

# Walk·a·bout

(wôk'ə bout') *n.* *Australian.* A temporary return to traditional Aboriginal life, taken especially between periods of work or residence in white society and usually involving a period of travel through the bush.

*The way Peter Kohlsaas describes it, "Most people retire at the end of their career. I chose to retire at the beginning of mine." Six years after starting his dental practice, this 1977 graduate chose to leave dentistry and live the life of a cartoonist. After nearly fifteen years spent illustrating everything from magazines and newspapers to greeting cards, t-shirts and Web sites—including cartoons in Playboy and a nationally syndicated cartoon panel—he came home to practice dentistry.*



Though he has returned to dentistry, Peter Kohlsaas still creates cartoons for *In-Fisherman* magazine.

BY RICHARD BRODERICK

**F**ive years ago, Peter Kohlsaas was examining a periodontal patient as part of his Central Regional Boards exam when he noticed a strange uptick of traffic past the operatory in which he was working.

Word had gotten out that his patient was a celebrity—Curtiss A, a musician of local rock fame. That very day, in fact, the *St. Paul Pioneer Press* had featured a front-page article about the annual concert Curtiss A was about to do commemorating the anniversary of John Lennon's death. As Kohlsaas worked away on Curtiss A's upper right quadrant, he caught sight of one of the floor examiners peering over a newspaper at his famous patient.

That Curtiss A ended up volunteering to help Kohlsaas with his boards was no coincidence; rather, it was a remnant of

the footloose, more-or-less bohemian life Kohlsaas had been living since the 1980s, earning his keep as a cartoonist and illustrator, spending his nights hanging

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**"I would draw a line from newspaper to newspaper marking the best places to fish in between. I'd take a shower in a campground, make myself presentable, meet with someone, then get back on the road."**

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out with luminaries of the Minneapolis rock scene. It was a life Kohlsaas loved, a life that brought him some fame of his own in the form of a cartoon series carried by the *L.A. Times* syndication

service. Yet, that life came screeching to a halt when, early in 2000, he decided the time had come to re-enter the profession for which he'd been trained; the profession he'd dropped out of some 15 years earlier—dentistry.

## Cartooning Wins Out

To hear Kohlsaas tell it, he first got into dentistry, not quite on a whim, but certainly without the kind of forethought and deliberation that most students exercise when choosing a profession, especially one with training so demanding and time-consuming.

As a junior at the University of Minnesota-Duluth, where he majored in biology and chemistry, Kohlsaas, who grew up in the St. Paul suburb of New Brighton, decided to apply to the University's School of Dentistry. It was the only dental school to which he applied, and a move that he says was "a kind of a lark." ☺

The University accepted him without requiring him to complete his undergraduate degree. After graduating at age 25, he moved to Duluth, where he had already begun to explore his passion for fishing and the outdoors, and opened a private practice. "I didn't know anybody in Duluth," he admits. "I just said, 'Let's go!'"

Starting a practice from scratch is no easy thing. And his practice, it is fair to say, was not a booming success. With few patients and "lots of free time," he decided to try to turn his talent for drawing into a side business of penning editorial cartoons for the *Duluth News Tribune*. Recognizing the potential

himself a 1973 Triumph TRX, and headed for the Twin Cities, where he found a half-day a week position with a local

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**"Putting our egos aside, there is a lot of comedy to be admitted to in the way we human beings relate to each other."**

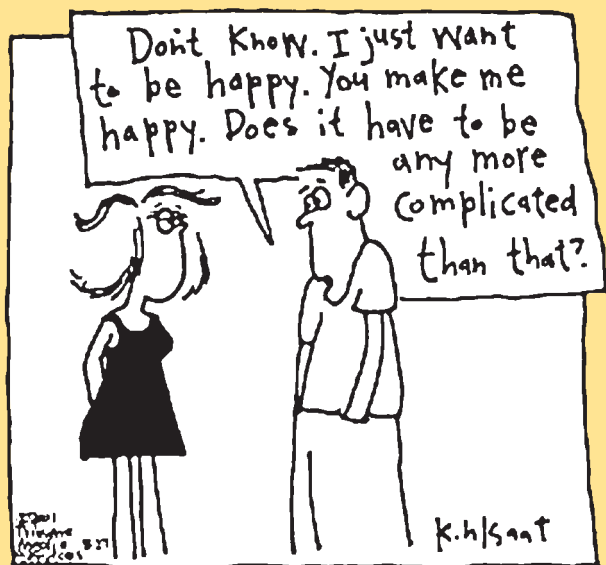
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dental practice and devoted himself to cartooning and illustrating, giving himself a year to make it or break it. Hallmark Cards was his first new

and humor. Once, for example, he created a single panel cartoon series titled 'Wombmates' which he refers to as "one of my better failed project stories." The cartoon featured sperm, equipped with thought balloons, commenting on topics of the day. He blanketed the market to no avail, earning nothing for his wayward effort beyond a crisp note from the cartoon editor at the *Village Voice* dubbing 'Wombmates,' "the worse thing he'd ever seen and he said he'd seem 'em all."

### Freedom and Fishing

Meanwhile, he adopted the itinerant existence he would pursue for the next



to expand his commentary to regional rather than just city issues, he called and mailed samples of his work around northern Minnesota, contacting small town editors and signing on a growing number of papers.

After about six years, he found himself with a dental practice that took up about 30 hours of his week and a cartooning business that consumed approximately the same amount of time. So, he made a choice. "I decided, 'Let's bag dentistry for a couple of years and give [cartooning] a full shot,'" he says.

And thus began Kohlsaatt's 15-year walkabout from dentistry. He sold his practice, took his modest profit, bought

client—"They really saved my life. It was easy work." Even as he became a regular in the Cities' artistic and especially music scene, befriending members of groups such as Husker Du, The Replacements, and Soul Asylum, among others, he also gradually picked up work with *In-Fisherman*, *Fins & Feathers*, *Mpls. St. Paul Magazine*, and other publications, drawing cartoons or illustrations for \$25 a pop.

But he was still trying to land the big one—regular cartoon assignments from the *New Yorker* or *Playboy*. His efforts to capture the attention of editors at these and other national publications sometimes took him to the far side of taste

decade and a half, spending four months of every year boating, fishing and spearfishing in the Caribbean and down in the Baja. At one point, he took an eight-month tour of fishing spots around the U.S., creating cartoons, then scanning and sending them off to publications, all the while plotting his course from fishing-hole to fishing-hole with stops at editorial offices along the way.

"I would draw a line on a map from newspaper to newspaper marking the best places to fish in between," he recalls. "I'd take a shower in a campground, make myself presentable, meet with someone, then get back on the road."



It was a completely carefree life—no one to care for but himself and his dog. In 1987, the *L.A. Times* syndication service picked up perhaps his best known cartoon series, a series called “Single Slices,” that looked at relationships and love and, he explains, “at how inept we humans are at communicating with each other. I attempted to find the humor in this ineptness, steadfast in my belief that, no matter the pain, the heart survives, and that, putting our egos aside, there is a lot of comedy to be admitted to in the way we human beings relate to each other.”

Even though he never managed to earn more than a modest income,

I’d end up as one of those destitute, angry artists living in my sister’s basement.

“I wasn’t living there,” he hastens to add, “but the scenario was running through my mind.” So he went about the laborious task of renewing his license to practice dentistry.

Kohlsaas chronicled that effort in an engaging five-part series of articles he wrote for the Minnesota Dental Association’s journal *Northwest Dentistry*, entitled “The Journey Back.” Critical at times of the hurdles to re-licensing, “Journey” is mostly a humorous look at a man who returned to dentistry almost

curve was real steep. It had been almost 20 years since I’d had a drill in my hand, so I really needed to be kept busy, seeing a wide range of patients.”

After his layoff, one phone call landed him another position—also a good fit—at a group practice where he continues to work.

“The two practices operate very differently from each other,” he observes. “At one I had no mentor—which was fine—but in the second position I was in an office in Eagan with a doctor who is a very good mentor, who showed me how to go about doing things.”

It has also given him a better sense of how a successful practice operates, though he confesses that he’s “too old to start my own group practice. God willing, I’ll be there for the rest of my working life.” He has all but stopped cartooning, though he continues to do regular work for *In-Fisherman*, largely because he loves fishing and has long-standing ties with the magazine.

“I didn’t leave dentistry because I didn’t like it,” he explains. “I always did like it.” Nor does he work any harder as



Kohlsaas’s best-known cartoon series, “Single Slices,” appeared in newspapers across the country. It focused on the comedy of personal relationships.

**“I’ve discovered that I want to be that guy patients can depend on and the one they trust to be there for them when they need him.”**

“The freedom was great,” he reports. “If someone could have guaranteed me that for the rest of my life I would have gone on doing it until I died.”

### The Road Back

But an artist’s life is an uncertain life, and after peaking in the mid-1990’s (at the height of its popularity, “Single Slices” appeared in a couple dozen papers around the country), Kohlsaas’s cartooning business began to plateau. Now middle-aged, he faced a fateful decision.

“I had come to a point in my career where the income I was getting from cartooning was less and less each year, and I figured I had to do something or

as insouciantly as he first entered the profession, only to find an unexpected part of himself responding to the call of his patients’ needs, especially to the trust they place in him as in other practitioners.

Kohlsaas regained his license in October 2000. His first job also turned out, in retrospect, to be a perfect position for someone trying to get back into the profession. For several months he worked part-time at a Twin Cities’ group practice, only to be laid off along with all other part-timers in the wake of 9/11. He was shocked, he says. On the other hand: “It was a great opportunity for me,” he says. “I was really busy, so my learning

a dentist than he did as a cartoonist, when he would spend eight to 10 hour days brainstorming and sketching out ideas—both occupations leave him spent by the end of the day. The big difference between the two vocations, he says, lies in another area.

“As a cartoonist, I only had to worry about myself and my dog,” he says. “Now I have to take care of other people. All my patients put a lot of faith and trust in me and depend upon me.

“It’s exhausting trying to be that guy for everybody who sits down in my chair,” he says. “But that’s because I’ve discovered that I want to be that guy patients can depend on and the one they trust to be there for them when they need him.” ☉

# 2005 Community Report

The charts below represent the unaudited revenue sources and expenses of the School of Dentistry for fiscal year 2005.

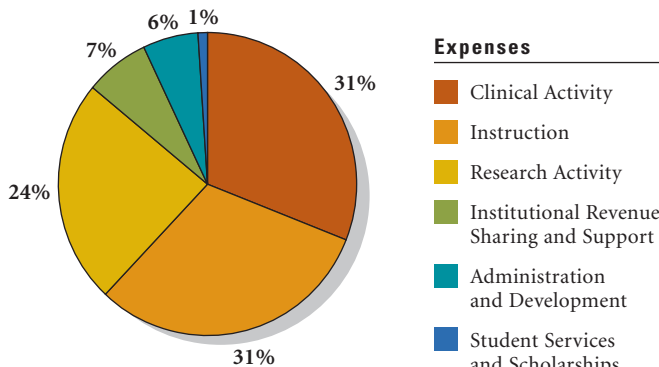
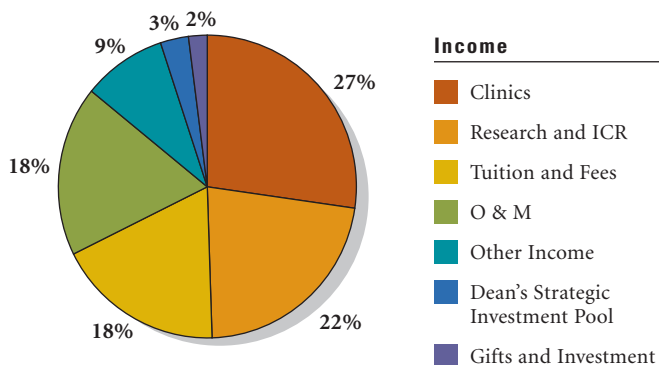
## INCOME & EXPENSES

### Income

Clinics	\$	14,665,342
Research and ICR	\$	12,311,874
Tuition and Fees	\$	9,935,969
O & M	\$	9,748,115
Other Income	\$	5,167,791
Dean's Strategic Investment Pool	\$	1,659,128
Gifts and Investment	\$	1,265,452
<b>Total</b>	<b>\$</b>	<b>54,753,671</b>

### Expenses

Clinical Activity	\$	16,191,938
Instruction	\$	15,858,233
Research Activity	\$	12,363,253
Institutional Revenue Sharing and Support	\$	3,380,459
Administration and Development	\$	2,875,039
Student Services and Scholarships	\$	757,829
<b>Total</b>	<b>\$</b>	<b>51,426,751</b>



### Income Notes

Total revenues for FY 2005 increased by \$4.5 million. As in FY 2004, the largest increase in income is attributed to the school's research activities. In FY 2005, the school received over \$12.3 million in *Research and ICR* (Indirect Cost Recovery) revenue, an amount that represents 22% of the school's total revenues and an increase of \$3.1 million over FY 2004. With most of these research revenues committed to supporting specific sponsored activities, these funds will increase or decrease in synchronization with the school's portfolio of grant awards.

*Tuition and Fees* increased by \$1.6 million to a total of \$9.9 million (18% of total revenues). The increase in *Tuition and Fees* revenue reflects an increase in total enrollment in the Doctor of Dental Surgery program, beginning with classes starting in 2002 and now holding at 96 students per class. This amount also reflects a 15% tuition increase for the 2004-05 academic year. The rate increase was higher than the 12% undergraduate tuition increase and was necessary to cover the higher University Internal Revenue Sharing assessment and other costs assigned to the school through the University's budget process.

The balance of revenues from all other sources saw a slight decrease from FY 2004 levels. *Clinics* revenue saw a modest increase of \$353,000, representing a 2.1% increase over the prior year. Clinic revenues decreased as a percent of total revenues from 29% in FY 2004 to 27% in FY 2005.

Of interest to many, the *State O&M* funding for the School of Dentistry was stable for the last two years at \$9.7 million, and now represents 18% of total revenues. This is the second year without a reduction in state O&M funding.

### Expenses Notes

The school's expenditures for FY 2005 totaled \$51.4 million. Consistent with the increases in income were increases in research expenditures. Expenses for *Research Activity* grew to \$12.3 million, representing 24% of total expenditures in FY 2005. In FY 2004, *Research Activity* expenses accounted for \$10.2 million, or 21% of total expenditures.

*Clinical Activity* and *Instruction* still represent the largest shares of the school's expenditures, with each accounting for 31% of total expenditures. Although the combined spending in these areas was essentially unchanged (62% in FY 2005 and 66% in FY 2004), a couple of items are to be noted: 1) The school absorbed an additional \$89,000 in *Instruction* expenditures related to funding stipend and fringe benefits expenses for dental residents already admitted to the school's residency programs. Prior to FY 2005, resident stipend/benefits expenses were funded through the federal Graduate Medical Education program. This funding ended in 2005. 2) *Clinical Activity* expenditures decreased from FY 2004, due to the suspension of the Hospital Dental Clinic activity and the closure of the GPR program.

*Administration and Development* costs for the school increased by about \$460,000 (or 6% of total expenditures) in FY 2005. These figures reflect faculty and staff appointments for positions unfilled during the transition between permanent deans.

The university's *Institutional Revenue Sharing and Support (IRS)* assessment increased and now totals \$3,380,000 or 7% of total expenditures. The rate of assessment for the IRS is 8.5% of most revenue sources. In FY 2007 the university will no longer assess the IRS, replacing it with a cost allocation model similar to one implemented by the School of Dentistry in FY 2005. This model should help the university and school manage central costs more effectively and create proper incentives for the use of resources.

Harley L. Will  
Director of Finance

## 2004-2005 FACULTY/STUDENT STATISTICS

### Faculty

	Tenure/ Tenure Track	Other*	Total
Professors	26	24	50
Associate Professor	27	43	70
Assistant Professor	9	103	112
Other Faculty	0	44	44
<b>Total</b>	<b>62</b>	<b>214</b>	<b>276</b>

\*Includes clinical and part-time faculty.

### Students

#### Fall Quarter Enrollment 2005

Dental Hygiene	101
DDS	378
Advanced Education & Graduate Programs	87
<b>Total</b>	<b>566</b>

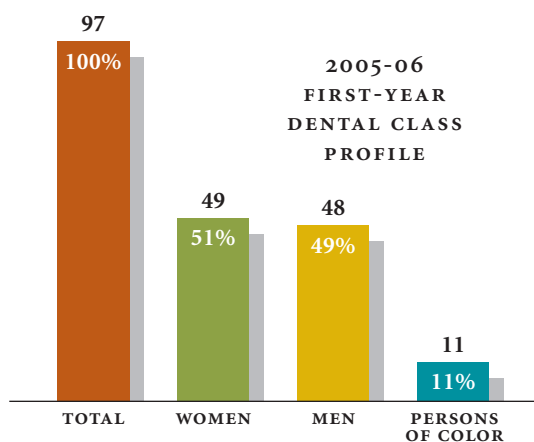
#### 2004-2005 Graduates

Dental Hygiene-Baccalaureate Program	33
Dental Hygiene-Degree Completion Program	6
Certificates	37
Graduate & Professional Degrees Awarded	99
<b>Total</b>	<b>175</b>

## 2005-2006 FIRST-YEAR CLASS PROFILES

### Profile of the 2005-06 First-Year Dental Class

Total Number of Applicants	761 *
Total Number Accepted	97



#### Average GPAs

Overall GPA	3.64
Required Course	3.60
Science GPA	3.59

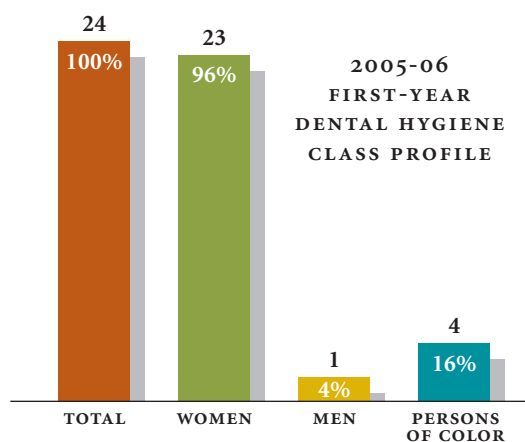
#### Average DATs

Academic Average	19.49
Perceptual Ability	18.11

These figures represent AADSAS calculations.

### Profile of the 2005-06 First-Year Dental Hygiene Class

Total Number of Applicants	124
Total Number Accepted	24



#### Average GPAs

Overall GPA	3.38
Pre-professional Courses	3.42
Science GPA	3.01

#### Average ACT Scores

Composite Average	22.10
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These figures represent AADSAS calculations.

#### Education

Master's Degree	0
Bachelor's Degree	4
Completed a dental assisting program	2



Scott McClanahan

## Putting Down Roots

As a career officer in the United States Navy, Captain Scott McClanahan, D.D.S., M.S., has been posted to some choice duty stations.

Over the course of nearly twenty-five years, he and his family have moved every few years to places both exotic and local, including California, Hawaii, Okinawa, Illinois, Virginia, and Maryland. But for McClanahan, who retired from the Navy in September, 2005, and two months later joined the faculty at the University of Minnesota School of Dentistry as director of the Division of Endodontics and director of the division's Advanced Training Program in Endodontics, his move to Minnesota marks an opportunity to put down roots.

"Dr. McClanahan was the director of advanced education training in endodontics for the United States Navy," said Dean Patrick Lloyd. "He brings with him 13 years of experience as an educator, an enthusiasm for tackling new challenges, and a reputation for excellence."

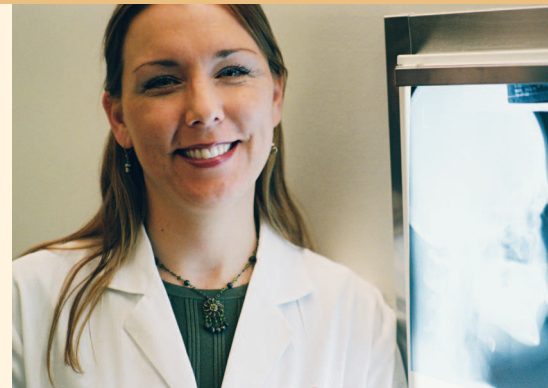
Most recently, McClanahan was professor at the Naval Postgraduate Dental School at the National Naval Medical Center in Bethesda, Md., and specialty leader for the chief, Bureau of Medicine and Surgery. Before that, he held faculty appointments at George Washington University in Washington, D.C. and Northwestern University Dental School in Chicago."

McClanahan is also a former member of the board of directors for the American Association of Endodontists, is the current chair of the association's Evidenced Based Endodontics Committee, and an American Dental Association site visitor for Advanced Specialty Education Programs in Endodontics (2001-07).

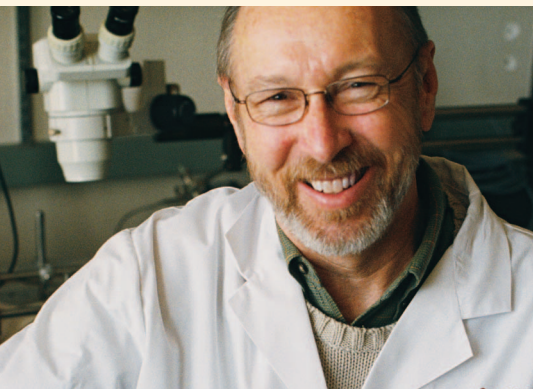
He received his Doctor of Dental Surgery degree from the University of North Carolina School of Dentistry in Chapel Hill, and his Certificate of Residency in Endodontics and a master of science degree from Northwestern University Dental School in Chicago.

# New Faculty Members

**Pamela Hughes** joined the faculty as assistant professor and director of the Advanced Training Program in Oral and Maxillofacial Surgery in September, 2005. A 1997 graduate of the University of Detroit-Mercy Dental School, she completed her Oral and Maxillofacial Surgery training at the University of Minnesota School of Dentistry (2001). She has served in teaching positions at Evanston Northwestern Hospital and the University of Chicago, and was in private practice in Chicago for five years. Hughes is a Diplomate of the American Board of Oral and Maxillofacial Surgery and of the National Dental Board of Anesthesiology. Her research interests are in clinical oral and maxillofacial surgery and anesthesia.



Pamela Hughes



David Bereiter

**David Bereiter** will join the neuroscience faculty as neuroscientist May 1. Most recently on faculty as professor at Brown Medical School in the Departments of Surgery and Neuroscience, Bereiter is an authority on facial pain who studies the mechanisms that underlie homeostatic reflexes and pain sensation evoked by activation of specialized receptor regions of craniofacial tissues (i.e. cornea, dental pulp, temporomandibular joint, neural membranes). His research goal is to determine the organizational features of the trigeminal brainstem complex and factors that affect the properties of trigeminal neurons under acute and chronic pain conditions. Defining properties of trigeminal neurons and the agents that modulate their activity may suggest new strategies for craniofacial pain management that affect central as well as peripheral neural targets.

**Joyce Palik** joined the faculty in September, 2005 as a group leader in the Comprehensive Care Clinic in the Department of Primary Dental Care. A 1980 graduate of the University of North Carolina School of Dentistry, Palik completed her prosthodontics training at North Carolina in 1982 and a geriatric fellowship from Marquette University Veterans Administration Medical Center in 1987. Before moving to Minnesota, she was a clinical assistant professor in the Department of Prosthodontics at the University of Iowa (1998-2004). She has also been a full-time faculty member at Marquette University School of Dentistry in Milwaukee and at the University of North Carolina School of Dentistry in Chapel Hill, and a consultant in geriatrics at the Milwaukee Veterans Administration Medical Center. Her research interests include age-related changes in the oral cavity on properties of dental materials and the effectiveness of student learning with dental simulation equipment.



Joyce Palik



Wook-Jin Seong

**Wook-Jin Seong** joins the faculty in May as an assistant professor in the Division of Prosthodontics, Department of Restorative Sciences. Seong is a graduate of Seoul National University College of Dentistry. He earned both his Masters in Science degree in Dentistry (Prosthodontics, 1999) and his Ph.D. in oral biology with an emphasis in biomechanics and biomedical engineering (April 2006) from the University of Minnesota. He started his academic career as an assistant professor in 1999 at the University of Minnesota School of Dentistry, is currently an associate clinical specialist in the Division of Prosthodontics, and successfully completed his specialty board certification from the American Board of Prosthodontics in 2000. Dr. Seong's research area focuses on physical property measurements on biologic tissues and materials, including nano-indentation technique, dental implant stability measurements, mechanical/electrical bone stimulation, and computer simulation of immediate dental implant loading.

# People

**Stephen Clifford** (fourth-year dental student) was selected by the Academy of Operative Dentistry as student table clinician winner at the 2005 ADA meeting in Philadelphia for his presentation, "Do Polymerization Techniques Affect the Physical Properties of Composites?" Clifford participated in the Summer Research Program during all four years of dental school. His faculty research mentors were Antheunis and Daranee Versluis.



Bill Douglas

**Bill Douglas** (Biomaterials) received the prestigious Hollenback Memorial Prize from the Academy of Operative Dentistry. Presented in recognition of his "many years of research which has contributed

substantially to the advancement of restorative dentistry, the award is one of the academy's highest honors. Douglas accepted the award in February.

**Robert Gorlin** (professor emeritus) received the Lifetime Achievement Award from the American Skin Association in recognition of his interdisciplinary role and academic appointments resulting in the development of a world center for clinical genetics; his lifetime work in clinical medicine, pathology, craniofacial disorders, and hereditary hearing loss leading to the recognition of many genetic disorders; and his initial definition and description of the nevoid basal cell carcinoma syndrome and prodigious research for his therapy. Gorlin received the award in October at the association's meeting in New York City.

**John Koutlas** (Oral Pathology) was recognized by the University of Minnesota at its inaugural Inventor Recognition Ceremony on September 20th. Koutlas invented a probe insertion and angulation mechanism for an MRI-compatible robotic device that performs biopsy and therapeutic interventions in the breast,

allowing for an improved method for the detection and characterization of breast cancer.



Patrick Mantyh

**Patrick Mantyh** (Neurosystems Center) received the 2005 Bonica Award from the Eastern Pain Association for his contributions to pain research. The John and Emma Bonica Public service Award recognizes

distinguished contributions by an individual or organization to the field through public education, dissemination of information, public service, or other efforts that further knowledge about pain. Mantyh accepted the award and presented a lecture on "Mechanisms that Drive Cancer Pain" at the Association's annual scientific meeting, September 16-17, in New York City.

**Joel Rudney** (Diagnostic and Biological Sciences). Research conducted in Joel Rudney's lab was featured on the cover of the prestigious microbiology journal *Infection and Immunity* (January 2006). The cover picture shows a high resolution scanning electron micrograph of the invasion of a KB epithelial cell by a fusobacterium. The image, created by second-year dental student Tracy Grossman, a summer research fellow in the Rudney lab, was considered particularly appropriate for the January cover because of its resemblance to the ball dropping at Times Square on New Years Eve.



Jim Swift

**Jim Swift** (Oral and Maxillofacial Surgery) was elected president-elect of the American Dental Education Association (ADEA). ADEA is the leading national organization for dental education. Elections were

held March 9-10 at the ADEA annual session in Orlando.

## Program for Internationally Educated Dentists Clears Final Hurdle

The School of Dentistry has responded to a request from the Minnesota Board of Dentistry to create an educational program for graduates of dental schools outside of the U.S. and Canada seeking practice opportunities in Minnesota. The new program, to be called the Program for Advanced Standing Students (UM-PASS), was approved by the University's Board of Regents in February. The inaugural class of six students will begin in May, 2006.

The request from the Board of Dentistry was made as a follow-up to a 2001 law that permitted internationally educated dentists to apply for licensure. Over the course of the last three years, more than 300 internationally educated dentists have applied. The board approved about one-third of the applications, but found it difficult to evaluate qualifications of internationally educated dentists who came from a variety of different schools with diverse clinical and didactic programs.

According to Peter Berthold, PASS program director, there are other challenges, as well. "Dentistry is practiced differently in other countries than it is in the U.S. There may be different laws, standards of care, roles for dental team members, expectations for patient communication, and more. We've designed the PASS program so that differences in preclinical training are addressed in the first 10 weeks. After that, students will be required to complete the last two years of dental school, which is the time when dental students learn by treating patients in the school's on-campus and community-based clinics."

The 10-week course includes an eight-week orientation and pre-clinical lab experience plus two weeks of rotations in School of Dentistry clinics, including the summer semester junior courses. Following successful completion of the 10-week program, PASS students will be fully integrated into the third year dental class and proceed through their third and fourth years of dental school.

Successful completion of the two-year program leads to a doctor of dental surgery degree, allowing graduates to seek a license to practice dentistry in any U.S. state.

## A Letter from the President



Dear Fellow Dental Alumni,

*Change.* It is the one constancy in dentistry and indeed in all of life. It is easy to predict the future: it will be different from today. How it will differ is a matter for entertaining speculation and debate.

But why is *Change* the way of things? It is because of entropy. Mathematically defined by a Viennese fellow named Ludwig Boltzmann, entropy is a quantification of chaos or disorder that explains arguably the single most depressing thing about our existence. It explains why your car breaks down. It explains why your house gets messy. It explains why baby chicks and teenagers won't stay in a box. It explains why your Coke goes flat, why your utensil drawer won't shut and why your garden hose resembles modern art. In short, Boltzmann explained every messy, disorganized, unplanned-for, unwelcome, unsolicited, undesirable crappy event in your life. You can't win against entropy. You can't even tie. Entropy always wins. And in four billion years the sun will run out of hydrogen, explode, and vaporize the earth. Thank you, Ludwig.

But you can win for awhile. It takes energy and effort, but you can lower entropy locally. Mouths have entropy, and a mouth left untended will experience (forgive me for this) increased entropy. Thus, some mouths develop huge entropy, off-the-chart entropy. We devote our lives to lowering oral entropy (put that on your business card!) and in the process discover ever better ways to improve the quality of life for our patients. Our efforts also help keep "Excessive Oral Entropy" from being listed as the cause of death on the certificate, another notable benefit. Our efforts to reduce oral entropy cause *Change*. We cause change. *Viva us!*

Dental schools also suffer increased entropy if left untended. The SODAS board salutes the efforts of Dean Lloyd, President Bruininks, and the Capital Campaign Cabinet to substantially lower the entropy of the dental school by creating a new \$10.5 million pre-clinical training facility for 1st and 2nd year dental students. We also encourage everyone who reads this to contribute. Remember. Lowering entropy is what we do. For all who contribute: *double viva us!*

Your SODAS board works continually to reduce entropy for dental and dental hygiene students through ongoing programs, all of which are made possible by membership and your generosity with time and money. These programs include: 1) scholarships; 2) cap and gown rental for the graduates; 3) sponsorship of the Clinical Grand Rounds; 4) assistance for the Senior Recognition Banquet and 5) assistance for the White Coat Ceremony. At the Dean's Reception this spring we will once again recognize two distinguished alumni with special awards. We have this year provided money for the creation of a dental and dental hygiene class yearbook. And on February 9th we sponsored our first School of Dentistry Alumni/Student Mixer.

All of this is made possible with money from only three sources: 1) membership dues; 2) Cap and Gown Graduation Fund donations; 3) Golf Classic revenues. This money is in an inverse relationship with the entropy of the students and the school. More money to SODAS means less entropy for them. If you belong to SODAS, *viva you*. If you are a member and also donate to the Cap and Gown Graduation Fund, *double viva you*. If you are a member, donate to the Cap and Gown Graduation Fund, and participate in the Golf Classic each summer, *triple viva you!* Thank you.

Best Wishes,

*Dellin R. Baklum DDS*

DELLIN R. BAKKUM, DDS, '81  
President, School of Dentistry Alumni Society

# Award-Winning Alumni



Kathy Voigt-Geurink

## Kathy Voigt-Geurink

### Winner of the Distinguished Dental Hygiene Alumna Award

Kathy Geurink is an outspoken advocate for public health with a career that spans over three decades of dental education, research and service. She is currently an associate professor in the Department of Dental Hygiene in the School of Allied Health Sciences at the University of Texas Health Science Center at San Antonio where she teaches community oral health and supervises student service-learning projects involving dental and dental hygiene students.

A respected educator and author of the widely used textbook, *Community Oral Health Practice for the Dental Hygienist*, 2nd Edition (2005), she is one of a handful of dental hygienists chosen nationwide to attend the American Dental Education Association Leadership Institute in 2003-04. Her endeavors include a grant awarded to study the oral health of rural school-based children in Texas and funding for a Head Start initiative to improve the oral health of 6,000 Head Start children, including the implementation of a fluoride varnish project to reduce dental caries for children at 85 Head Start centers. Geurink also serves as coordinator of the Head Start Oral Health Project for the Association of State and Territorial Dental Directors and as Region VI Head Start oral health consultant.

Prior to teaching, she worked as a public health dental hygienist in Minnesota, Wisconsin and Colorado, initiating statewide community oral health programs for underserved populations. Geurink received a graduate dental hygienist (GDH) degree (1969) and a bachelor of science degree (1971) from the University of Minnesota, and a master of science in health programming from the University of Northern Colorado (1974).



Robert M. Brandjord

## Robert M. Brandjord

### Winner of the Distinguished Dental Alumnus Award

Throughout his career, Robert Brandjord has distinguished himself as a talented practitioner, a respected educator, and as a leader willing to do the hard work of creating a new future for his patients, his colleagues, and his profession. His commitment spans nearly three decades in private practice, dental education and leadership positions at all levels of organized dentistry. Most recently named president of the American Dental Association, he currently leads the world's largest and oldest dental association, representing the interests of more than 152,000 practitioners and the patients they serve.

After graduating from the University of Minnesota School of Dentistry in 1970, Brandjord was in private general practice in Minneapolis (1970-72) and a clinical instructor in operative dentistry at the School of Dentistry where he was selected 1971 Outstanding Clinical Instructor of the Year. In 1975, he completed his residency training in oral and maxillofacial surgery at the Detroit-Macomb Hospitals and Children's Hospital of Michigan in Detroit, then returned to private practice in Burnsville and taught part-time as assistant professor in the Department of Oral and Maxillofacial Surgery (1979-80 and 1986-88).

Since that time, he's served in leadership positions in numerous organizations, including four years as ADA trustee from the 10th District, representing dentists in Minnesota, Iowa, Nebraska, and North and South Dakota (2000-04). As trustee, he served on a variety of key committees and task forces. He also served overlapping terms as chairman of the board (1999-2000) and president (1999-2001) of Minnesota Dental Benefits (the Minnesota Dental Association's direct reimbursement program), and was president of the Minnesota Dental Association (1998-99), Department of Surgery Chief at Fairview Ridges Hospital in Burnsville, Minnesota (1997-98), and president of the Minnesota Association of Oral and Maxillofacial Surgeons (1994-95).

Brandjord and his wife, Pamela, live in Eden Prairie, Minnesota.



# Class Notes

Please submit brief notices about milestone events and activities to: *U of M Continuing Dental Education & Alumni Relations* (attn: Marie Baudek), 515 Delaware St. S.E., 6-406 Moos Tower, Minneapolis, MN 55455 or [baude001@umn.edu](mailto:baude001@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.

## 1931

**John D. Herries** (D.D.S.), Charlo, Mont., passed away Sept. 30, 2005 at age 98. Dr. Herries practiced dentistry in Big Timber from 1931-1973. He also coached basketball, served on the volunteer fire department and the library board, and fished nearly every day of his life. During World War II, he served as a dental surgeon in the 7th Army in Europe. He was a Mason and a 60-year member of the American Foreign Legion. For the past 12 years he and his wife of 75 years lived next door to their son's family in Charlo. He preceded his wife in death by five days.

## 1934

**Ruth Peilen** (D.H.), Minneapolis, passed away Aug. 29, 2005 at age 91. Ms. Peilen worked for several years and then, like many of her generation, left the profession to raise a family but committed herself to community service. She helped launch Women in Service to Education (WISE), a program of the Minneapolis Chapter of the Nat'l. Council of Jewish Women (NCJW), that recruited volunteers to teach reading in Minneapolis grade schools. She chaired the NCJW Freedom Fair Agenda Program, a leadership training program whose theme, in a period of intolerance fueled by the Senate hearings of Sen. Joe McCarthy, was "speak up, freedom needs exercise". In 1958, she was named to an advisory board for the revision of the minimum wage law for women and minors working in restaurants, hotels, hospitals, nursing homes and resorts. She chaired the Minneapolis Federation for Jewish Service Urban Affairs Committee (1968-70) and its Legislative Task Force (1969). By 1968, about 250 WISE volunteers were tutoring more than 700 children, a half-day a week in 17 elementary and secondary schools, with chairwoman Peilen calling for more volunteers.

## 1937

**Jack Metternich** (D.D.S.), Rhinelander, Wisc., passed away Dec. 2, 2005 after 39 years of private practice. Dr. Metternich was a member of the Fleet Marine Force that landed on Iwo Jima on D-Day where he spent the duration of the World War II battle. A perfectionist in his profession who believed one should always do their very best and that 110 percent was better than 100 percent, he was an active member of the Rhinelander community, providing free dental examinations to area athletes and serving on the area school board for 16 years, including two terms as its president. He was a member of the board of directors of the bank, a life member of the American Legion, the Veterans of Foreign Wars, the 5th Marine Division Association, and the Minnesota Dental Association. He loved family, education, sports and the outdoors, refinishing furniture, jewelry making, cooking, baking and spectator sports.

## 1940

**Finn Brudevold** (D.D.S.), West Newton, Mass., passed away Jan. 16 at age 95. Born in Gjovik, Norway, he practiced dentistry in Norway before attending the U-M School of Dentistry. After graduation, he accepted a research position at Tufts University School of Dental Medicine (1942-49) and later served as a dentist for the Norwegian troops during World War II alongside his wife, a dental hygienist in the Norwegian Navy. He accepted a position at the University of Rochester's Eastman Dental Center in 1949 where he served as research director and did much of his research on fluoride, then served as a professor at the Harvard School of Dental Medicine (1958-67) and as research director at the Forsyth Institute in Boston (1958-86). Dr. Brudevold was a co-recipient of the first award in dental research from the Karolinska Institute in Sweden and president of the International Association for Dental Research (1978-79.) Known for his perseverance and passion, both personal and professional, he was a leader in dental research with honorary doctoral degrees from the University of Oslo, Georgetown University, and Tufts University, as well as an avid hiker and member of the team that forged a new trail in the Grand Tetons.

## 1944

**John Van Ost** (D.D.S.), Sun City Center, Fla., passed away Jan. 13 at age 83. Dr. Van Ost was a captain in the U.S. Army during World War II. He practiced dentistry for 35 years in Tenafly, N.J. where he also served on the board

of education, was an active member of the Rotary Club and an elder at the Presbyterian Church. He was on the dental faculty at Fairleigh Dickinson University. He founded and was president of Caribbean Sailing Yachts with marinas in the Bahamas, Florida Keys, British Virgin Islands, the Grenadines and Honduras. He was author of five books on cruising in the Caribbean, most notably "The Yachtsman's Guide to the Virgin Islands." After retiring to Sun City Center, Fla., he was awarded Volunteer of the Year by the Wimauma school district for his work in starting an accelerated reading program and organizing a volunteer force to teach English as a second language to elementary school children.

## 1950, 1957

**Lawther, George C.** (D.D.S.), Roseville, passed away on Jan. 20 at age 81. Dr. Lawther was a full-time faculty member at the School of Dentistry (1984 to 1987), serving as clinical director of the undergraduate program in what was then called the Dept. of Periodontology. He retired in 1987 after serving 30 years on the faculty in periodontology, 27 part-time and three full-time. He was also a consultant to the Minneapolis Veterans Administration Hospital (1957-70), Blue Cross/Blue Shield of Minnesota (1966-68), and Aetna Life Insurance Company in Minneapolis (1983-84). He was a member of the American Academy of Periodontology, serving on its Executive Council (1973-75) and as chair of its annual meeting in Minneapolis (1975). He was president of the Midwest Society of Periodontists and of the Minnesota Association of Periodontics in 1966, and served on several committees of the Minnesota Dental Association and the St. Paul District Dental Society (1962-1982).

## 1951

**Edward A. Cerkovnik** (D.D.S.), Great Falls, Mont., passed away in Oct., 2005 at age 78. A former Malta and Glasgow resident and a Navy veteran, Dr. Cerkovnik, was a consummate 'giver' in life with a dry wit and sense of humor and a make-your-day smile for everyone he met. Watching his children and grandchildren participate in sports and other school activities, fishing and hunting with his sons, son-in-law, and grandchildren, golfing with his buddies, nightly walks with his dog, and working in the yard were all special times.

## 1954

**Donald E. Bentley** (D.D.S.), Hawley, passed way Nov. 3, 2005 at the age of 85. Dr. Bentley was a past president of the American Dental Association. A devoted citizen of both his profession and community, Dr. Bentley held numerous positions of leadership. In Hawley, he was mayor, a member of the city council and a church leader, director of the Chamber of Commerce, and member of the Board of Directors of the First National Bank. He was national chair for three years of a fund-raising organization responsible for earning \$7.5 million for Concordia College in Moorhead. Dr. Bentley was named outstanding alumnus of Concordia College in 1980. He was also Trustee of the Minnesota Dental Association (1965-68) and MDA treasurer from 1968-74. He was on the Board of Directors of the School of Dentistry Alumni Association (1968-72) and a member of the school's Century Club Executive Council (1977-78). He served as trustee from the 10th District of the American Dental Association (1976-82), was ADA treasurer (1981), and the association's 120th president in 1983-84. As president elect and president, Dr. Bentley traveled to every corner of the U.S. and many foreign countries. He was keynote speaker at the centennial anniversary of the Norwegian Dental Association in 1984 and, with intensive study, managed to give much of the address in Norwegian.

## 1956

**Charles W. Gurtler** (D.D.S.), Wisconsin Rapids, Wisc., passed away Feb. 19 at the age of 71. Following a successful high school career of basketball, Dr. Gurtler received the Williams Memorial Scholarship and played Big Ten basketball and ran track at the University of Minnesota. Dr. Gurtler was a member of the American Dental Association, as well as the Wisconsin and Minnesota Dental Associations. He was also a past president of the Wood County Dental Society and a past chairman of the Riverview Hospital dental staff.

## 1960

**James M. Barnes** (D.D.S.), Menasha, Wisc., passed away Jan. 23, at his home after a valiant battle with cancer. Intrigued by aviation as a young boy, Dr. Barnes obtained his pilot's license at age 15 and later proudly served his country in the United States Navy (1948-54) as a naval aviator. He flew F-6 Hellcats, F4U Corsairs, F9F-5 Panthers and F-9 Cougar jets from the deck of the USS Essex before retiring as a full lieutenant. He was a lifelong builder of aircraft models and model railroading, and enjoyed sailing, skiing and nature's creatures. He was a charter member of the Experimental Aircraft Association and a

member of the VFW post in Menasha. Dr. Barnes began his dental practice in 1961 and assisted 3M in pioneering composite fillings. Dr. Barnes continued his practice in Menasha until his retirement in 1993.

## 1960, 1965

**Eric Stafne** (D.D.S.), Minneapolis, was named Minnesota Dental Association's 2006 Guest of Honor for "outstanding service to the art and science of dentistry, participation and contributions to organized dentistry over an extended period of time, community involvement, and/or academic accomplishments." The award recognizes Dr. Stafne's dedication to teaching dental students in the Department of Periodontology and his special focus on the impact of tobacco use, in all forms, on oral health. Dr. Stafne is a retired professor in the Department of Preventive Sciences-Periodontology at the University of Minnesota.

## 1961

**Thomas J. Conlon** (D.D.S.), Inver Grove Heights, passed away Dec. 17, 2005 at age 68. Friends would say that Thomas Conlon did not practice acts of kindness randomly—he practiced them continuously. Whether outfitting stranded tourists with overshoes or housing them in hotels, buying them breakfast and fixing their cars, he is remembered for his generosity. Dr. Conlon served as a captain in the U.S. Army and practiced dentistry in South St. Paul for 37 years. He was the recipient of the Helen Keller Sight Award and the Melvin Jones fellowship from Lions International.

## 1966

**George Posavad** (D.D.S.), Shoreview, received the Minnesota Dental Association's 2006 Humanitarian Service Award in recognition of his continuing dental missions in the orphanages in Ukraine. The award is given annually to a member dentist for "humanitarian service to the local, regional, state, national, or global community."

## 1967, 1970

**Stephen F. Litton** (D.D.S.), Golden Valley, received the Minnesota Dental Association's (MDA) 2005 President's Award in recognition of his dedication to organized dentistry through "his natural leadership at many levels," particularly his financial management of the MDA resources as its treasurer from 1998-2004. The award is given annually by the MDA president to recognize extraordinary service to the association and to the profession.

## 1983

**Michael Perpich** (D.D.S.), Edina, received the Minnesota Dental Association's (MDA) 2006 Outstanding Service Award for his continuing service at the local and state levels of the MDA and at the International level with the Pierre Fauchard Academy, culminating in its presidency in 2004-05. The award is given annually for "outstanding service to organized dentistry, either for a component or constituent society, the ADA, or another dental organization."

## 1984

**Carol Dahlke** (D.H.), Dayton, received a 2005 Outstanding Service Award by Special Olympics Minnesota. Recognized as the "driving force behind Healthy Athletes Special Smiles program since its inception in 2000," she received the award in January at the 2006 Distinguished Service Awards Banquet. As a director of the Special Smiles clinics, Dahlke has recruited hundreds of dental/dental hygiene volunteers from throughout the Twin Cities. She attended the Special Olympics Incorporated (SOI) Healthy Athletes Conference and World Games to increase awareness of not only the Special Smiles program but other Healthy Athletes programs as well. Dahlke also serves as a Level II Basketball coach with OMGAA Storm in Area II, a delegation of which her daughter, Krista Dahlke, is a member. A 1984 graduate, Dahlke is a current student in the dental hygiene degree completion program. She also serves as a member of the School of Dentistry Alumni Society Board.

## 1985

**David Lurye** (D.D.S.), Winter Park, Colo., was elected secretary of the Colorado Dental Association. He was also inducted as a fellow of the International College of Dentists at its 76th annual convocation in Philadelphia, Pa.

## 1996, 1998

**Catherine Wurm** (D.D.S.), St. Cloud, received the Minnesota Dental Association's New Dentist Leadership Award in appreciation of her "passion for excellence" in her work as a practicing dentist, mentor and instructor, in her community and in organized dentistry. The award is given annually to "an active member of the Minnesota Dental Association who has served dentistry and the dental community through efforts that demonstrate devotion to the profession and to the public."

# Reunions

REUNION/EVENT	DATE, TIME, LOCATION & CONTACT INFORMATION
Class of 1946	60 Year Reunion, Wednesday, June 7, 12 Noon, Midland Hills Country Club, Dr. Dennis Johnson, Chair
Class of 1947	59 Year Reunion, Monday, May 1, 1:30 p.m., Steak and Ale, Dr. Milton Bartsh, Chair
Class of 1951	55 Year Reunion, Saturday, April 29, 12 Noon, The Lexington, Dr. Elmer Thiesse, Chair
Class of 1956	50 Year Reunion, May 19-20, Dr. Gerald Rosdahl, Chair <ul style="list-style-type: none"> <li>• Friday, May 19 — <i>Dinner</i>, Radisson University Hotel</li> <li>• Saturday, May 20 — 9:30 a.m., <i>Morning get-together</i>; Afternoon, <i>Lake Minnetonka paddleboat</i></li> </ul>
Class of 1959	Monday, May 1, 11:30 a.m., Radisson Riverfront Hotel-Carousel Room, Dr. William R. Johnson, Chair
Class of 1961	45 Year Reunion, Monday, May 1, 12 Noon, St. Paul Hotel, Dr. Leonard Arndt, Chair
Class of 1962	Monday, May 1, 12-2 p.m., Downtowner Woodfire Grill, Dr. Mark Holmes, Chair
Class of 1966	40 Year Reunion, Friday, April 28, 7 p.m., St. Paul Hotel, Dr. Jerome Erickson, Chair
Class of 1976	30 Year Reunion, Saturday, April 29, 6-9 p.m., St. Paul Hotel-Summit Room, Dr. Charles Sherman, Chair
Class of 1977	Saturday, April 29, 12 Noon, Great Waters Brewing Company, Dr. Herbert Schulte, Chair
Class of 1981	25 Year Reunion, Saturday, April 29, 12-2 p.m., Holiday Inn RiverCentre, Dr. Karen Heck and Dr. Laura Eng, Chairs
Class of 1986	20 Year Reunion, Saturday, April 29, 12-2 p.m., The Liffey, Dr. Susan Olson, Chair
Class of 1991	15 Year Reunion, Saturday, April 29, 6 p.m., Mai Village Restaurant, Dr. Elizabeth Rydell Bejarano, Chair
Class of 1996	10 Year Reunion, Saturday, April 29, 6:30 p.m., Great Waters Brewing Company, Dr. Tasha Strait, Chair

## Graduation 2006: School of Dentistry Alumni Society Cap & Gown Fund

Since 1997, the School of Dentistry Alumni Society has raised funds to cover the cost of cap and gown rental for graduating dental and dental hygiene students. Thanks to the wonderful response to past appeals, the School of Dentistry Alumni Society is now able to expand its support of graduating dental and dental hygiene students. In addition to underwriting the graduation cap and gown rental, this fund has permitted the alumni society to also provide additional scholarship money, increase its support of the Senior Recognition Banquet, and help fund a yearbook for the graduating class. It is also an important welcome as senior students become recent graduates and fellow colleagues. Our commitment to the dental and dental hygiene classes of 2006 is approximately \$13,000.

The School of Dentistry Alumni Society requests your participation in this special project. Please consider making a contribution by sponsoring one or more dental or dental hygiene students. The cost of cap and gown sponsorship for each student is \$45. This contribution is tax deductible and will stand as a commitment and bond between alumni and students. As students wrap up their education and focus on final exams, board examination preparations and job searches, your contribution will help to eliminate one financial worry. To make your donation, call 1-800-685-1418 or 612-625-1418. Your generosity will always be a part of the memories of the Class of 2006's years at the University of Minnesota School of Dentistry.



Could it be 50 years already? The dental class of 1955 celebrates at the Minnesota Valley Country Club.



On the road again: Dean Patrick Lloyd (far left) in Phoenix with (L to R) Arnold Hill ('63), Betty Dresser, Fred Bertschinger (development director) and Bill Dresser ('57).

# Events Calendar

## APRIL 2006

**April 28**  
**School of Dentistry Alumni Society Board Meeting**  
3:00 to 4:30 p.m.  
St. Paul Hotel  
St. Paul, Minnesota

**April 28**  
**Annual Dean's Reception**  
5:30 to 7:30 p.m.  
St. Paul Hotel  
St. Paul, MN  
*For information, call:*  
(612) 625-7678

**April 28-May 1**  
**MDA Star of the North Meeting**  
*April 28*  
Pre-session seminars  
*April 29-May 1*  
Star of the North Meeting  
River Centre  
St. Paul, MN

*For information, call:*  
(651) 646-7454

## MAY 2006

**May 18**  
**School of Dentistry Senior Recognition Banquet**  
Awards: 5:00 p.m.  
Reception: 6:30 p.m.  
Program: 7:15 p.m.  
Radisson Metrodome Hotel  
University of Minnesota  
Minneapolis Campus  
Minneapolis, MN

**May 18-21**  
**South Dakota Dental Association Annual Session**  
Sheraton Hotel and Conference Center  
Sioux Falls, SD

*For more information, call:*  
(605) 224-9133

**May 19**  
**University of Minnesota Alumni Reception**  
5:30 to 7:30 p.m.

*For more information, call:*  
(612) 625-5751

**May 19**  
**School of Dentistry Graduation**  
2:00 p.m.  
Northrop Auditorium  
University of Minnesota  
Minneapolis Campus  
Minneapolis, MN

**May 23**  
**UMAA Annual Celebration**  
Dinner: 6:00 to 7:30 p.m.  
Northrop Mall

**Program:** 8:00 p.m.  
Northrop Auditorium  
University of Minnesota  
Minneapolis Campus  
Minneapolis, MN

*Speaker:*  
Sandra Day O'Connor,  
Supreme Court Justice

*For information, go to:*  
[www.alumni.umn.edu](http://www.alumni.umn.edu)

## JUNE 2006

**June 1**  
**School of Dentistry White Coat Ceremony**  
3:30 p.m.  
Radisson Metrodome  
University of Minnesota  
Minneapolis Campus  
Minneapolis, MN

## JULY 2006

**July 27**  
**12th Annual School of Dentistry Alumni Society Golf Classic**  
8:00 a.m. Shotgun Start  
Les Bolstad Golf Course  
St. Paul, MN

*For information and registration, call:*  
(800) 685-1418 or  
(612) 625-1418

## 12th Annual Golf Classic

**Thursday, July 27, 2006**

Please mark your calendars to join us for the 12th Annual School of Dentistry Alumni Society Golf Classic!

Return to your maroon and gold stamping grounds on Thursday, July 27, 2006 for a truly fun event at the University of Minnesota Les Bolstad Golf Course. Enjoy some friendly competition, prizes, and a cookout. Stop by the School of Dentistry Alumni Society booth at the Star of the North Meeting or call Continuing Dental Education & Alumni Relations at 612-625-1418 or 800-685-1418 for more information. It's not too early to get your foursome together!

## SEPTEMBER 2006

**September 15-17**  
**North Dakota Dental Association Annual Session**  
Holiday Inn  
Minot, North Dakota

*For more information, call:*  
(701) 223-8870

**September 16**  
**University of Minnesota Alumni Breakfast**

*For more information, call:*  
(612) 625-5751

## For more information:

Except where noted, you can obtain further information on the events listed by contacting:

**Julia Cross**  
(612) 625-7678  
[cros0183@umn.edu](mailto:cros0183@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](http://www.events.tc.umn.edu)

# CDE Courses

## 10% Discount Now Available

*School of Dentistry Alumni Society members are eligible for discounted continuing education. Members may receive a 10% 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 2006

#### **Integrating Technology into Your Practice**

May 4-6, 2006

#### **Proper Body Mechanics for the Dental Hygienist: A Participation Program**

May 12, 2006

#### **Core Competency Day for the Dental Team**

May 19, 2006

#### **Practical Periodontics: A Hands-On Nonsurgical Program (Full)**

May 31-June 2, 2006

### JUNE 2006

#### **Dental Hygiene Refresher: A Hands-On Program (Full)**

June 5-9, 2006

### JULY 2006

#### **Adhesive & Esthetic Dentistry: A 2006 Update Duluth, Minnesota**

July 15-16, 2006

### AUGUST 2006

#### **41st Annual Dental Assistants' Seminar**

August 11-12, 2006

#### **6th Annual Oral and Maxillofacial Surgery Review**

August 19-21, 2006

#### **Oral and Maxillofacial Surgery Mock Examination**

August 22 or 23, 2006

### SEPTEMBER 2006

#### **Clinical Grand Rounds: Esthetic Dentistry**

September 7, 2006

#### **Welcome to Implant Dentistry: A Hands-On Training Program**

September 7-10, 2006

#### **Fall Dental Hygiene Seminar**

September 8, 2006

#### **TMD and Orofacial Pain Mini-residency**

September 11-13, 2006

#### **Esthetic Removable Partial Dentures**

September 14-16, 2006

#### **Destination Greece: Study in Athens**

September 16-24, 2006

September 25-30, 2006  
(optional Greek island cruise extension)

#### **Clinical Dental Pharmacology: What's Hot and What's Not**

September 22, 2006

#### **Restorative Expanded Functions: An 80-Hour Training Program (Weekend One)**

September 22-24, 2006

#### **Nitrous Oxide Sedation: A Lecture and Hands-On Program**

September 29-30, 2006

### OCTOBER 2006

#### **Mini-residency in Nursing Home and Long-Term Care for the Dental Team**

October 4-7, 2006

#### **Clinical Grand Rounds: Periodontology**

October 5, 2006

#### **Orthodontic Study Club: Session One**

October 6, 2006

#### **Restorative Materials & Techniques: What, Where, When and How**

October 6, 2006

#### **Recordkeeping Workshop for the Dental Team**

October 12, 2006

#### **12th Annual Practice Management Symposium: How to Take Your Practice to the Next Level**

October 13, 2006

#### **Infection Control, Dentistry & You: Keeping Your Office Safe and Sane**

October 14, 2006

#### **Occlusion & Function**

October 18-21, 2006

#### **Restorative Expanded Functions: An 80-Hour Training Program (Weekend Two)**

October 27-29, 2006

#### **Real World Endo presents Precision-Based Endodontics: A Hands-On Program**

October 28, 2006

### NOVEMBER 2006

#### **Clinical Grand Rounds: Pediatric Dentistry**

November 2, 2006

#### **Hot Topics in Periodontics**

November 3, 2006

#### **Orthodontic Study Club: Session Two**

November 3, 2006

#### **Winter Dental Assistants' Seminar**

November 4, 2006

#### **Office Oral Surgery: A Clinically Guided Participation Course**

November 6-7, 2006

#### **Postgraduate Program in Esthetic Dentistry: Level I (Weekend One)**

November 10-12, 2006

#### **Postgraduate Program in Esthetic Dentistry: Level II (Weekend One)**

November 10-12, 2006

#### **Clinical Updates in Dentistry: A Minnesota/Iowa Symposium**

November 17, 2006

#### **Restorative Expanded Functions: An 80-Hour Training Program (Weekend Three)**

November 17-19, 2006

For more information and to register for classes, contact:

#### **Continuing Dental Education & Alumni Relations**

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

#### **Phone:**

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

#### **Fax:**

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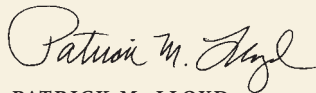
# 2005 Donors

## Dear Friends,

In my travels around the state and across the country this past year, I've had the opportunity to meet so many of our School of Dentistry alumni and friends. I attended MDA district meetings to share news about the exciting things going on at the school and to learn about the unique issues facing dentistry in different regions of the state. I hosted receptions in the southwest so alumni who've settled there could let me know how life is treating them and hear about the changes and innovations coming to the school. And, dozens of people have "just stopped by," wanting to find out first-hand what's new in the School.

I learn so much during these visits. Each provides a special insight into the distant or recent past. I learn what people value in their professional and personal lives, what they believe the school should be doing on all sorts of matters, and their opinions about how we're dealing with today's challenges. Many have expressed their gratitude for what dentistry has afforded them by making the hundreds of generous donations listed on the following pages. I thank each and every one for their generosity and assure that these gifts will be wisely used.

Sincerely,



**PATRICK M. LLOYD**  
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) of any corrections.*

## Donors to the School of Dentistry 2005

*The list is based on outright gifts, pledge payments and deferred gift payments.*

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## PHILANTHROPIST C.C. Anderson

C.C. is a 1968 D.D.S. alumnus who earned a certificate in Oral and Maxillofacial Surgery in 1973. He practiced oral surgery in Eau Claire, Wisconsin until 2003. C.C. shares his wisdom and experience as an adjunct faculty member for our Division of Oral and Maxillofacial Surgery and also as an instructor for Marquette University dental students at a technical college clinic in Eau Claire. He is currently a member of the Simulation Clinic Campaign Cabinet. C.C. and his wife, Judy, are strong supporters of the School of Dentistry and the University of Minnesota, as Presidents Club members in 1981 and more recently as members of the Heritage Society for their future gift commitments.



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Lois Karl is a 1971 D.D.S. graduate and her husband, Roy Black earned a Ph.D. from the University. Both are Presidents Club members for their current giving and planned gift commitments. Lois served as the volunteer chair of the Annual Fund for the School of Dentistry and Minnesota Dental Association conferences. Karl says her giving is a demonstration of her appreciation for the support and encouragement of faculty and an investment in the future of research and education for those who follow her in the dental profession.

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Appreciative of the treatment received by their grandson in the School of Dentistry's pediatric dental clinic, John and Lois established the John Thomas Bennet Velocardiofacial Syndrome (VCFS) Fund in 2005. VCFS is caused by a chromosomal disorder that can cause cleft palate and other dental and medical problems. The fund will support clinical services, education, and research for VCFS patients and their families. The Welshons hope that their giving will encourage others to support the fund. John and Lois became Presidents Club members for their exceptional support.



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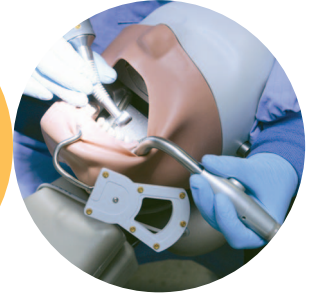
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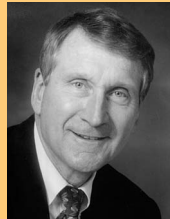
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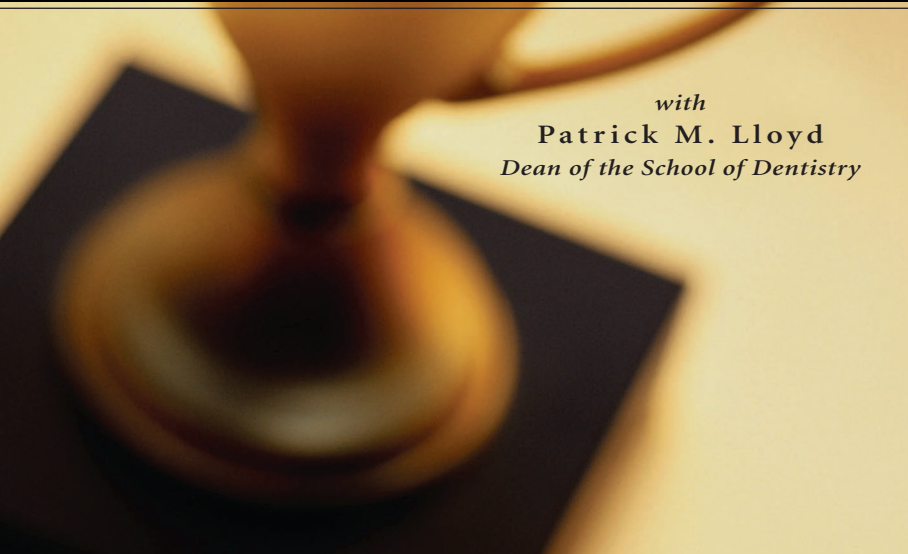
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Appetizers & a cash bar will be available.  
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Julia Cross, Dentistry Administration  
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*Presented by The University of Minnesota School of Dentistry and the Dentistry Alumni Society*

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