What’s Love Got to Do With It?

Extraordinary teachers and why they do what they do.
Dear Colleagues,

The cover story for this issue of Dentistry magazine tells the story of five of our faculty members and “why they do what they do.” Their passion is one that drives most of us in academic dentistry, our love for teaching. The privilege to share and connect with a student and the learning that we, as teachers, realize in often surprising ways is what makes the career of an educator among the most rewarding. I know you will enjoy reading the stories of these outstanding teachers.

Speaking of teachers, this past April it was my honor to present the School of Dentistry’s Century Club Professor of the Year Award to my friend and long-time colleague, Dr. Stephen Shuman. Steve epitomizes the teacher ideal to which we all aspire with his knowledge of dental care for the elderly and his enthusiasm for new knowledge passed on to his students. He is most deserving of this award, which is the highest honor bestowed by the school.

I also encourage you to take the time to learn more about our three alumni honorees of the past year, Carol Dahlke, dental hygiene alumnus honored by the University of Minnesota Alumni Association with the Alumni Service Award; Lisa Ahmann as our Distinguished Dental Hygiene Alumna Award winner; and Dr. George Kinney, our Distinguished Dental Alumnus Award winner. Each of them is an exemplar of a life of service.

There have been a couple of notable transitions in the school’s senior leadership team over the past few months of which you should be aware. Dr. Sven Gorr has stepped down as associate dean for research to return to his first love, doing science in his laboratory. Those of us who have worked with Sven will miss his steady and wise counsel. Succeeding him in an interim role as associate dean for research is Dr. David Bereiter. David is a successful neuroscientist who will bring great enthusiasm and passion to leading our research endeavors. In this issue, he provides a list of faculty publications over the past year, a list impressive in both breadth and scope.

In development and alumni affairs, Fred Bertschinger, our chief development officer, has retired and will be greatly missed by all. Ms. Emily Best has been appointed interim chief development officer through this transition and I know you will enjoy working with her. In addition, Erin Elliott has just been appointed director of alumni affairs. She looks forward to working with SODAS President Mary Pariseau, our School of Dentistry Alumni Board of Directors, and all of you.

In addition, this issue provides me with a chance to share with you some of my perspectives as a long time faculty member of the School of Dentistry who suddenly found himself as the dean. Working with this outstanding faculty staff has been nothing but a privilege for me and I look forward to our school’s future!

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Photos by Scott Streble
Carol Dahlke Honored by UMAA

The University of Minnesota Alumni Association (UMAA) honored Twin Cities’ dental hygienist and practice management consultant Carol Dahlke, MDH, at a celebratory event at the McNamara Alumni Center on October 19, 2017.

Dahlke received the UMAA’s prestigious Alumni Service Award in recognition of outstanding volunteer service to the University of Minnesota School of Dentistry.

“Carol has worked tirelessly on behalf of the School of Dentistry and generously shares and models her enthusiasm for patient care, alumni involvement and community service,” says Gary Anderson, DDS, MS, interim dean of the School of Dentistry. “She is a leader and unwavering champion of oral health care for patients with special health care needs, and proudly represents the University of Minnesota as a graduate, a volunteer and a fan of all that is maroon and gold.”

Carol Dahlke graduated with a GDH in 1984. She returned to the dental school in 1998 as a guest lecturer in the Division of Dental Hygiene and, for eight years, helped to educate students about the needs and challenges of providing oral health to people with Down syndrome. In 2007, she earned her bachelor of science in dental hygiene degree and, in 2010, was the first graduate from the dental school’s new Master of Dental Hygiene Program. She is currently employed as a consultant for Accelerated Practice Concepts.

Dahlke served for seven years as a member of the School of Dentistry Alumni Society (SODAS) board in positions that included president in 2010. Under her leadership, the society expanded its services and began reaching out to engage students. Additionally, she served on three School of Dentistry search committees, is a volunteer affiliate faculty member in the Division of Periodontology, and is a member of the school’s Continuing Dental Education External Advisory Board (since 2014).

A lifelong member of the U-M Alumni Association, she is a regular volunteer for School of Dentistry participation in the UMAA-sponsored Day of Service and at the U-M homecoming parade. She is a member of the University’s Legislative Action Network, and is a new member of the President’s Club. Recently, she established the Stacie Kvam Carlson Memorial Scholarship in honor of her classmate who died in January 2017.

In 2008, the School of Dentistry Alumni Society named her its Distinguished Dental Hygiene Alumna of the Year.

Additionally, she’s been involved since 1997 with Special Olympics Minnesota, serving as a clinical director and coach. She established and directs Special Smiles in Minnesota, a dental screening program for Special Olympics athletes, and has inspired dental students and practicing dentists to volunteer. She has had the privilege to travel to Japan and China with the Special Smiles program, as the only dental hygienist invited to those Special Olympic World Games.

In 2006, Carol received the Award of Distinction by Sunstar Butler/RDH magazine. This award recognizes dental hygienists who have had a profound impact on their profession and community.
Research Snapshot:

A detailed look at HTLV-1, the human retrovirus that causes T-cell Leukemia.

Retrovirus replication remains an intriguing enigma to researchers. Scientists continue to gain more insight, but the process is still poorly understood.

It is generally believed that a mature virus reproduces by injecting its genetic material into a host cell, creating virus particles that are infectious duplicates. But a recent study by researchers in the dental school-based Institute for Molecular Virology (IMV) shows this may not always be the case.

The team studied human T-cell leukemia virus type 1 (HTLV-1), which causes T-cell leukemia. Using the cutting edge technology of cryo-electron microscopy, researchers were able to capture detailed images of HTLV-1 particles. The researchers were surprised to find most particles were incomplete. They varied in size and structure, many even lacking the organized cores of a mature virus.

“It’s surprising that a virus would primarily reproduce with structural defects,” said Louis Mansky, PhD, lead author of the study, director of the IMV, and professor in the School of Dentistry.

Mansky is also a Masonic Cancer Center member.

The study was recently published in the Journal of Virology.

RNA, which initiates virus replication, is located in the “capsid” or particle core. Particles lacking a fully-formed capsid, however, raise questions about how an infectious virus spreads among individuals. More importantly, it suggests that interfering with capsid formation could be a promising antiviral target for blocking infectious virus formation and transmission.

That opens the door to new potential drug therapies, vaccines or other interventions.

“To fight these diseases, we need to understand how they work,” Mansky said. “Right now, we don’t have effective therapies for treating HTLV-1 infection, but gaining a deeper understanding of basic viral replication should help in identifying targets for therapeutic intervention. Our findings help provide important clues to direct the next steps, and could lead us to a potential treatment or a preventive therapy for human leukemia.”

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Quick Takes

Centennial Anniversary of WWI
On April 6, 1917, the U.S. joined its allies—Britain, France and Russia—to fight World War I. More than 4.7 million U.S. servicemen were involved worldwide, including two-thirds of the School of Dentistry’s graduating dental class of 1917, whose members entered the army. Nearly every faculty man was either in the active or reserve forces. The entire 1918 class of 90 students enlisted in the Medical Reserve Corps, and many of them were summoned to training camps directly after commencement.

World War I was one the deadliest conflicts in human history, claiming the lives of almost 7 million civilians and 10 million military personnel.

Celebrating a Job Well Done
On May 12, 2017, the School of Dentistry hosted its 128th Commencement Ceremony. The Honorable Louis B. Sullivan, MD, former Secretary of the U.S. Department of Health and Human Services, delivered the commencement address. A total of 184 new professionals crossed the stage to be recognized for their accomplishments, including graduates of the following programs: Doctor of Dental Surgery (107), Advanced Education in Dentistry (38), Master of Dental Therapy (6), Master of Science in Dental Hygiene (5), and Bachelor of Science in Dental Hygiene (22).

Focus on Rural
The School of Dentistry hosted its annual Rural Practice Dentistry in Minnesota workshop on October 5. The event brought together recent graduates with 106 current dental, dental therapy and dental hygiene students (and their spouses/partners) for an open discussion about life and practice in rural communities. Guest speakers were Drs. Daniel Einerson (Alexandria, Minn.) and Nathan Mork (Ogema, Minn.)

International Exchange Program
The School of Dentistry has an active exchange program with dental schools in Norway, Denmark and two dental schools in Germany. This semester, seven U-M students are studying abroad and six dental students (from Aarhus University, the University of Bergen and the University of Greifswald) joined third-year dental students in clinic for fall semester. A Meet and Greet session was held in September for everyone to get to know each other.
A Conversation
Interim Dean Gary Anderson shares insights about priorities, challenges and the future.

DM: You were the choice of many in the school to serve as interim dean. Why do you think that was?
Dr. Anderson: I think there’s comfort in a known quantity. I’ve been around a long time in both regular faculty positions and as a member of the senior leadership team. People know me and know what I believe in.

I also know the challenge of having to consider and balance the perspectives and priorities of everyone, including that of faculty, staff and students, the University, the state and the public, the profession and even national interests. I believe that School of Dentistry leadership is here to serve and make our school more successful and that means, within limits, supporting as best possible, the faculty, staff and student body. It’s my sincere hope that the school community saw signs of that perspective and that they will continue to do so.

DM: How has your teaching, clinical care and research informed you as a dean?
Dr. Anderson: The School of Dentistry carries out the tripartite mission of the land-grant University through education, patient care and research. It is who we are as faculty and what we support as staff and school leadership. Over the years, my appreciation for the integration of these three components of the mission has grown tremendously. My clinical practice has been informed by my participation in clinical research, which has influenced what and how I teach.

DM: Can you give us an example?
Dr. Anderson: Our multi-center, collaborative TMD research group developed and validated diagnostic criteria for jaw-related headaches. Many of us had long recognized a relationship between jaw pain and headaches, but it was difficult to diagnose a headache as jaw-related with any degree of confidence and questionable treatment decisions often resulted. These new diagnostic criteria are recognized by others, including neurologists, and support a role for dentistry in the diagnosis and management of headache disorders. The effect on what and how I teach about these topics is obvious. The whole process leads to new questions for future investigation.

This is just one example of what can come of the integrated mission of a dental school in a research-intensive land-grant university and that is what we do. It’s the dean’s job to develop, lead and support an infrastructure that allows us to carry out this part of the mission in a sustainable way.

DM: What are your priorities for your time as interim dean?
Dr. Anderson: I was hired to address the school’s budget challenge, which resulted in a depletion of our financial reserves that limits our ability to invest in the future. In addressing this shortfall, I’ve built upon the progress made by both Dean Leon Assael and Dr. Todd Thierer, our associate dean of clinical affairs, who served as acting dean prior to my appointment.

We’ve made tremendous headway this past year, thanks to efforts of the entire faculty and staff. University and Academic Health Center leaders are aware of our progress, and I’m confident the energy and efforts demonstrated, along with prudent and continued thoughtful management, will lead to a bright and sustainable financial future for our school.

My other major concern is for the culture of the institution. A tight budget is hard on morale. I believe that our work together and the resulting accomplishments have contributed to some improvement in how we all feel about our future, but this is an issue we must continue to keep in mind.

DM: Tell us more about the financial challenges.
Dr. Anderson: We have four primary sources of revenue: state support, clinical income, research grants and tuition. Each of these revenue streams is under pressure. First, state support will only continue to decline as a part of our budget. Although it is now
less than 20% of our revenues, it continues to be extremely impor-
tant to our overall fiscal health. Second, our clinics are challenged
by public program reimbursement rates which are among the
lowest in the country. Third, federal research support continues to
decline and competition for these limited funds has become much
greater. And fourth, there are limits to how much tuition can be
charged for dental school.

DM: What are some of the difficult financial decisions.
Dr. Anderson: We always wrestle with tuition decisions. Student
debt is a great concern, and it can also influence practice patterns
and decisions. Several times we’ve chosen to limit tuition increases
by freezing faculty salaries. That’s an unsustainable approach.

Another example: As federal funds for research tightened, we
made a difficult decision to bridge-fund some of our researchers
until alternative sources of grant funding could be identified or
traditional support reinstated. That was a near-term decision but
a wise long-term strategy, as nearly 95% of that outlay has been
recouped and we’ve retained our talented scientists and innovative
research programs.

DM: Have there been any surprises?
Dr. Anderson: Just before I was named interim dean, an internal
budget review committee made the difficult decision to close our
General Practice Residency (GPR) Program and its UMP Dental
Clinic. The clinic had ongoing budget shortfalls related, primar-
ily, to the state’s low reimbursement for services to public pro-
gram patients. We were all surprised and grati-
fied at the outpouring of community and
University support for the clinic. We did step
back from that decision and there are no cur-
rent plans to close the facility. But, with no
additional financial support provided, we’re
still exploring options to ensure the clinic’s
long-term financial success.

DM: Tell us about the University’s plans to search for
a permanent dean.
Dr. Anderson: The original plan was for us to do
some work to address financial challenges and
follow-up with a search for a new dean to be
initiated in fall 2017.

To my best knowledge, this is still the plan. I do want to
emphasize that this search will be incredibly important to the
school and will require all the best efforts of the faculty, staff, and
student body, along with the entire dental community of
Minnesota, to find and recruit the best person for the job.

DM: You said you’ve been here for 30-plus years. How has
the school and profession changed over that time?
Dr. Anderson: The public’s perception of higher education fund-
ing has changed from that of an important public investment to
an individual benefit. For us, that’s resulted in steep reductions in
state support. Fortunately, unlike a department of chemistry or
English, we have clinics that generate revenue as a direct outcome
of our education programs. We continue to work towards greater
clinic efficiencies, while being mindful of the balance between the
need for clinic revenue and the education that occurs within these
clinical classrooms.

Another change is that our Moos Tower facilities have aged
and pose significant challenges to every update and remodeling
project we undertake. There will be no new dental school for the
next 10-15 years, so we have to make careful decisions about how
we use and update the facility.

Other changes include a more diverse patient population and
student body; increased cost of dental education resulting in high
tuition and student debt; increased regulation of all of our operations,
especially research and clinical care; increased cost in the face of
more competition for research funding; and the critical role
played by technology in every aspect of our operations. In clinical
education, this includes refining use of electronic records, digital
3D imaging, digital impressions, and CAD/CAM restorations.

DM: What’s hasn’t changed?
Dr. Anderson: The ever-growing problem of oral health disparities
in our state and country, complicated by challenges in access to
dental care. We all need to show a willingness to take on the diffi-
cult and often political task of developing solutions to the access
challenge, both within the School of Dentistry and the community
at large.

In his 2017 School of Dentistry Commencement address,
Dr. Louis Sullivan, former secretary of Health and Human Services
articulated the challenge as being a direct result of our national
struggle to “reconcile the two competing values systems of our
society…personal independence and…(determining) how much
we should depend upon our fellow citizens to help us, particularly
in times of need.” The growing awareness of the relationship
between oral health and overall health and wellness serves to remind
us all about how important it is to find a solution for this problem.

DM: What role does philanthropy have for the School’s future?
Dr. Anderson: It’s more important than ever. Philanthropic
support helps balance the impact of ongoing reductions in other
funding sources. Alumni and community support for our facilities
improvements, new technologies and pedagogical approaches, and
for research is needed. It’s our task to carefully make the case for
our ‘asks,’ keep givers apprised, and provide information about
outcomes that show how their gifts make a difference. I’d say that
strong philanthropic support provides both an important tangible
link with our alumni and community, and is a sign that we are on
the right track and doing the right things. But we can’t effectively
address our mission without this support. We need to be mindful
of this and never forget to be thankful for those who give.
We’ll roll out a major campaign to coincide with the University’s Driven, The University of Minnesota Campaign that will kick off in 2018. I urge you all to watch for information to come, and to carefully consider taking part as able. We will be in touch.

DM: What other challenges do you see for the School of Dentistry?
Dr. Anderson: Our human resources are critical to our future. But people costs are our most expensive resource. Attracting the best and brightest to our clinical faculty will require we be creative in integrating practice opportunities into compensation. Investment in the best research-intensive faculty will continue to be challenging. We also need to be able to attract, develop and retain staff members who support and enable all that we do.

We also must find ways to make the necessary investment in our basic, clinical and translational research initiatives, despite increased competition for reduced federal support. Research is vital to our mission to generate new knowledge and develop critical thinkers in all of our programs. Research costs continue to rise not only in terms of related faculty and staff compensation, but in terms of start-up support and technology costs.

DM: Tell us about the curriculum, what is planned for the future?
Dr. Anderson: Dr. Keith Mays, our associate dean for academic affairs, leads an effort to revise our curriculum with four primary goals: 1) to better integrate the basic and clinical sciences; 2) to teach for overall competency rather than passing specific tests; 3) to teach how to critically assess the new technologies and clinical procedures that will be available in the future; and 4) to provide increased flexibility in the fourth year of the curriculum to promote further refinement of clinical skills through increased patient based experiences.

DM: How might that be demonstrated?
Dr. Anderson: We’re looking to do more teaching through case scenarios emphasizing the application of science and critical thinking to clinical practice, as well as a de-siloed curriculum with a more integrated approach to teaching subject matter. One goal is for an ongoing review of clinical progress to better assess students’ technical skills. And our current team-based approach to patient care will include more emphasis on managing and directing the oral health care team, with a goal of seeing greater numbers of patients for students in our comprehensive care clinics, out-reach settings and specific clinical disciplines in which a student has special interest.

Most important is that the development of skills in critical thinking and problem solving will prepare graduates to address clinical problems of the future, such as increased numbers of geriatric and special needs patients, all with issues reflecting the impact of oral health on patients’ systemic health, and many problems not yet evident today. We cannot teach the specifics of managing problems that are yet to be encountered, but we must strive to teach how to approach and solve new problems never seen before.

DM: What do you see for the future of the School of Dentistry?
Dr. Anderson: Our school has a long proud history since its founding in 1888. It has been and continues to be a national leader in clinical care and research. We continue to generate new knowledge about biomaterials, pain mechanisms, HIV, microbiology, oral immunology, bone biology, the relationship of oral health to systemic health, and basic mechanisms that show promise in fighting cancer. We are well known for the excellence of our advanced education programs in six ADA-approved specialties, as well as oral biology, geriatrics, and TMD and orofacial pain. We have played an important national role in the development of non-patient based licensure examinations. We continue to explore more cost-effective ways of delivering care, including the use of expanded function dental assistants and dental therapists. In addition, our dental students and alumni are leaders in the profession.

Recently our oral and maxillofacial surgery faculty led by Dr. Harold Tu received national recognition for its leadership in recognizing the role dentists play in the opioid epidemic. They have instituted a clinical protocol used in all of our clinics to reduce the prescribing of opioids while effectively treating dental pain.

I have long believed that the dental community in Minnesota is unique. The relationships between the school, the Minnesota Dental Association and the practicing community are closer than those enjoyed by any other dental school of which I am aware. This provides unique opportunities not available elsewhere.

We as a faculty, staff and student body need to trust in each other and the fact that what each and every one of us does every day will make the difference. If so, we will continue to make important contributions to all aspects of the dental profession, as well as health care overall. I believe that the School of Dentistry community will respond to the challenges of the future and will play an important role in creating the future for oral health and dentistry. We bear an important responsibility and I believe we are up to it! ☺
ach spring, the School of Dentistry celebrates the accomplishments of its graduating students at a formal commencement ceremony.

The orchestra strikes up “Pomp and Circumstance.” The lights are dimmed. A procession of gowned faculty enters the auditorium, each member bedecked in full academic regalia in the colors, stripes and hoods of their own alma maters. As faculty take their seats on the platform, they turn to watch the steady stream of beaming graduates enter the auditorium, cross the stage to accept their diplomas, and move on to their exciting careers ahead. The entire ceremony is punctuated by cheering and applause from proud family and friends in the audience.

But that feeling of accomplishment and pride is by no means confined to graduates and their families. That’s because graduation is a shared accomplishment. The promising futures of these new professionals are also reflections of faculty accomplishments.

The job of preparing and launching students requires a special blend of scientific knowledge, technical skills, empathy and humor. As complicated as it is, that ‘job’ derives from a love of teaching and here, a few faculty members share their thoughts about why they teach. They come from different backgrounds and disciplines, but all say the same thing—that they’ve found a uniquely rewarding job. And their satisfaction, they say, derives from the talent and enthusiasm of their students, and through them, the opportunity to daily ‘see the world through fresh eyes.’

The Lure of the Classroom

“I knew I wanted to be a dentist from a young age,” says Mercedes Porter, clinical assistant professor in the dental school’s Department of Restorative Sciences, Division of Operative Dentistry. “I just always assumed I’d be treating patients in my own dental practice.”

Porter began shadowing her family’s dentist in high school. As an undergrad, she was vice president of the pre-dental club. She gained early admission to the University of Minnesota’s doctor of dental surgery program, graduated, and completed a general practice residency program, also at the University of Minnesota. She was eager to embark on her planned career. “Yet, sometimes our most thoroughly thought-out plans don’t come to fruition,” she says.

While practicing general dentistry at a community dental clinic in St. Paul for a couple of years, Porter reached out for teaching opportunities to fill her one day off each week. “That became my favorite day of the week,” she says. “I never thought I would find my true passion in educating future dentists, but I am so thankful to have found my niche.”

Today, Porter teaches in the dental school’s preclinical lab where students practice restorative procedures on mannequins to fine-tune the manual dexterity and eye-hand coordination skills they’ll need to treat patients.

“I am lucky to say that each day I’m excited and enthusiastic to sit down at my desk at the head of a bench of 10 first- or second-year dental students. My passion for interacting with and helping people is realized each day as I give constructive feedback to students and watch the sudden bolt of comprehension and clarity flash across their faces.”

BY TERRI PETERSON SMITH

Extraordinary teachers and why they do what they do.

PHOTOS BY SCOTT STREBLE

Second-year dental student Erin Tollefson (L) and Mercedes Porter.

Dr. Porter’s positive demeanor, calming attitude and vast knowledge of dentistry makes it a pleasure to learn from her…she has a passion for teaching and her students.

HANNAH AFWERKE

Fourth-year dental student
Her passion for working with students is echoed by other faculty members, among them Christopher Lawther, Kristine Krafts, Joel Rudney, and Joy Osborn. All were bitten by the same teaching bug, though under different circumstances. Take Joel Rudney, for example.

**Bitten by the Teaching Bug**

Although it would be true to say that he’d always been interested in dentistry, Joel Rudney began his career studying really old teeth. An anthropologist by early training, Rudney studied the dental remains of humans in Nubia (the area that is now southern Egypt and Sudan) for clues about the health of ancient communities. By the time he came to Minnesota for further study in cariology, he had a master’s degree in anthropology and a PhD in physical anthropology, both from the University of Colorado. While at the University of Minnesota, he earned a certificate in cariology and an MS in oral biology in the same year. And then he made Minnesota his home.

Today, he is a professor and assistant dean for research in the dental school’s Division of Basic Sciences. An NIH-funded investigator for 31 years and with research interests in the science of oral microbiology, he’s taught in the school’s undergraduate and graduate programs and been a research mentor or thesis advisor for some 40 dental and oral biology students, and clinical residents. He now directs the school’s Summer Research Program that’s provided research experiences for more than 200 first- and second-year students. He speaks of the joy of sharing his love of research, and finds gratification in his students’ excitement at this new phase of their lives and careers. “It’s a constant source of renewal and makes instructors excited to do their jobs,” he says.

That kind of instructor enthusiasm can be infectious. It was, in fact, a big part of what drew Chris Lawther into teaching. Drs. Les Martens and Tony DiAngelis took him under their wings during his student years; they later became mentors and friends. “They asked me to join the dental school’s inaugural General Practice Residency Program and encouraged me to provide feedback that helped shape that new program,” he says. “Then Dr. Martens asked me to lead the school’s Dental Auxiliary Utilization (DAU) Program.” At the time, Lawther was working part-time in the North Minneapolis practice he eventually purchased. But he continued to teach in the school’s patient clinics at least one day/week until his retirement. For him, teaching meant having the best of both worlds. “I liked the break from practice,” he says, noting that teaching added an extra social and collegial component to his career. Since retiring, he’s upped his teaching schedule to three days/week.

But instructor excitement and mentoring is not the only reason people get into teaching. Some people, like Associate Professor Joy Osborn, feel born to the profession. “I always knew I wanted to be a teacher,” she says. After receiving a GDH and a BS in dental hygiene, she went on to earn a master’s degree in instructional systems, all from the U-M. Over the course of her nearly 40-year affiliation with the School of Dentistry—as a student, teacher, course director, researcher and clinical faculty member—she’s helped to launch the careers of hundreds of dental hygienists. Osborn now teaches courses in the Master of Science in Dental Hygiene program, most recently with students who are focusing on education or management careers. “I teach the next generation of teachers,” she says.

For Rudney, Lawther, Osborn and Porter, what keeps them in the dental school’s classrooms and clinics is an appreciation for the importance of being able to share what they know and the opportunity to contribute to the education of the next generation of oral health professionals. The commitment, challenges, and variety that comes with working at the leading edge of their profession, are also unique motivators. Says Osborn, “I have always valued the mix of teaching, research and clinical practice and know that each area informs the other.”

**For the Totally Awesome Students at the School of Dentistry**

Perhaps the most surprising of this group of educators is Kristine Krafts, whose career as a dental educator started in medical school. Krafts graduated from the University of Minnesota Medical School and completed a residency in pathology (also at Minnesota). Like most of her fellow residents, she planned to go into private practice. But that never happened. “The longer I was in residency, the more I realized that what made me happiest...”
was learning new things and, as a corollary, helping others learn new things,” she says. While a third-year medical student, she began lecturing at the Medical School in Duluth. “I added a few lectures every year, just because I loved it. It felt natural to see if there was a way to make the position an official full-time one.”

Krafts lived in the Twin Cities and made weekly trips to teach at the Medical School in Duluth until about 10 years ago when the need arose for a course director for the pathology course at the dental school.

so students don’t have to spend time trying to figure out how all the pieces fit together.”

And while learning at this level naturally demands more of students, these instructors also add a dose of humor to their presentations to ease the stress and foster retention, too. “It’s almost a no-no to say that lectures should be entertaining—but why not?” says Krafts. “Some years,” she says, “we do a skit in which students put on costumes (they volunteer for different roles) and act out the drama of how the immune system attacks an invading organism.” The weapons are unusual (for example, the cytotoxic T cell uses a Manolo Blahnik high-heeled pump), but instructive. “And sometimes, you have to use your imagination in weird ways to get stuff into your head. So we try to work everyday. In November, she brought 16 dozen cookies to class (decorated to represent important diagnostic cells from hematologic diseases being studied.)

Remembering…

Mercedes Porter has a teaching style that reflects her understanding of what it’s like to be a dental student. She just finished a master’s degree in dental education from University of the Pacific in San Francisco, and says, “We’re teaching adult learners who have gotten good grades, but learning at this level is a whole new ballgame.” Though intelligent and high achieving on the academic side, they may struggle to learn the hand skills that are new to them. In oral anatomy, for example, they build teeth with wax, sometimes not so well. So, while they demand excellence, faculty also make an effort to encourage students through the hard times. Says Porter, “I remember a couple of faculty members who helped when I had trouble, who built my confidence. I hope I can be that for someone.”

In these situations, says Osborn, students appreciate fairness, especially in grading. “I have always thought that if I can’t support the score or grade that a student

Conveying the Curriculum

There’s always a particular joy in working with the best and the brightest, students whose facile minds grasp the material and question concepts and ideas. However, conveying complex subject matter to high achieving learners requires a special set of skills. These instructors strive to make difficult material easy to digest and relevant.

Krafts says, “Those of us who’ve been through medical or dental school have an easier time, I think, because we remember what it was like to sit in those chairs for hours and hours. I think all of us have learned by experience—you try something, and if it doesn’t work, you try it a different way. Eventually—hopefully—you wind up with a teaching strategy that works for both you and your students.”

She remembers that as a student she re-organized and re-wrote material from certain lectures in a way that made sense to her. “That takes a ton of time, so I try to do the organizing and simplifying,
Mentoring and Modeling

Older dental professionals may remember an era when caring and kind weren’t words they would use to describe their instructors. Yet, over the years, that experience is changing. “Because the learning is complex and multi-faceted, dental education will always be challenging,” says Keith Mays, associate dean of academic affairs. “Therefore, we try to create a humanistic environment that is both challenging and supportive.” As a result, these School of Dentistry instructors impart more subtle lessons and concepts that would be hard to measure on any test.

They agree that students need to be comfortable and feel supported. They talk with students about their social life and family. It’s a relationship of mutual trust and respect. Says Osborn, “Early in the program students most need faculty to be approachable. Later on, they are more confident with their own skills and knowledge. Clinical experience, guidance in clinic, and feedback for specific patient situations are always a positive aspect.

But primarily,” she says, “students need to know that faculty are present for them, will bend over backward for them, help with the on-going timely questions related to courses, projects, requirements, boards, and clinical positions after graduation.”

They also need instructors whose treatment of students offers a model for the way how to respect and deserve the trust of their patients.

Other intangibles students absorb: the love of life-long learning and a sense of curiosity that will keep graduates at the peak of their profession. Joel Rudney, for example, takes pleasure in his role as a matchmaker, pairing students with leading researchers in University labs, public health and clinical research projects. Students learn to give presentations and he encourages them to submit abstracts to the American Association of Dental Research. Many also present their research findings at other national meetings. “They get something that will last their careers—an appreciation of what research entails and how new knowledge is generated,” says Rudney.

He adds, “Of course there’s the underlying hope that they’ll get the research bug and pursue a career in academic dentistry.” It’s a sentiment shared by Chris Lawther. “I’d love to see some of my students teaching here.”

Expressions of appreciation, as have Osborn, Porter, Krafts and Rudney.

Says Krafts, “This probably goes without saying, but the best thing about teaching is the students. They make me happy every time I walk in the room. Their energy, inquisitiveness, and kindness just blows me away every year. I also like the creative work of taking a difficult subject and making it easy to understand. It’s a little challenge each time and it feels so satisfying when it works out and students grasp it immediately. Of course, there are also the more practical features of academic teaching that are appealing to me (i.e., the flexibility and the fit between my job and my family life). But in the end, I think you just know when you’re in the right field of work because there is a quiet sense of ‘I love this’ versus ‘I should do this.’”

Says Osborn, “I love watching students grow and mature from novices into graduates, ready to take on challenges of their own. It’s what makes teaching a rewarding experience.”

Unique Rewards

It’s no wonder that as they sit at Commencement, faculty feel a huge sense of accomplishment and satisfaction. Some are given the honor of participating in the ceremony. This year—and last year—dental students selected Lawther from all four years of dental school educators, to stand with them on-stage at graduation as a hooder. “It’s an honor to be selected,” he says, “and to place the ceremonial hood over the shoulders of graduates just before they receive their diploma.” Lawther’s also been honored with teaching awards and

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Dr. Rudney was 100% supportive of his students 100% of the time.

DAVID NEDRELOW
DDS, MS

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Celebrating Our First-Year Students

The School of Dentistry welcomed 134 incoming dental, dental therapy and dental hygiene students at orientation sessions on August 16-17, 2017. Students participated in activities and presentations to build a sense of community and learn about resources to assist them as they transition into school.

In September, all first-year students participated in the White Coat Ceremony. In the clinic setting, professional attire evokes the trust and respect of patients. The awarding of white coats at the beginning of each student’s professional education is an experience intended to impress upon these future practitioners the significance of that trusting relationship. The event also celebrates the students’ commitment to the goals of professionalism, ethical practice, scientific and technical expertise, and compassionate service to others.

School of Dentistry alumna Megan O’Connell, RDH, BDH, presented the keynote address.
We recognize our colleagues for their contributions to the body of knowledge that forms the foundation for our profession. The faculty, staff, students and research fellows of the School of Dentistry published 121 articles in scientific and professional journals between June 2016 and May 2017. These articles report on investigations—in areas of basic, clinical, and social and behavioral sciences, and public health—by collaborating authors from all departments within the dental school and a variety of academic and scientific institutions. This breadth of scholarship is a testament to the vitality of the School of Dentistry’s research programs and the extensive collaborations occurring within the school and with scientists around the world.

The publication list is organized by department and division. The publications, co-authored by collaborators in several divisions, are acknowledged in each participating division.

Sincerely,

David A. Bereiter
Associate Dean for Research

Research Publications

DEPARTMENT OF DEVELOPMENTAL AND SURGICAL SCIENCES

Division of Oral and Maxillofacial Surgery


Division of Orthodontics


Division of Pediatric Dentistry


Division of Periodontology


**Division of Basic Sciences**


Division of Oral and Maxillofacial Pathology


Division of Temporomandibular Joint Disorder (TMJ) and Orofacial Pain


The following individuals received a 2016 School of Dentistry Paper of the Year Award at the 13th Annual Dental Research Updates program held March 10, 2017, in Coffman Memorial Union. The award recognizes contributions made to the breadth of scholarship at the School of Dentistry in the areas of basic and clinical sciences, and in social/behavioral sciences and public health.

### Basic Sciences

**P.D. Bittner-Eddy and M. Costalonga**

Presented to P.D. Bittner-Eddy and M. Costalonga for their paper (with co-authors L.A. Fischer, D.H. Kaplan and K. Thieu):


**Don Nixdorf**

Presented to Don Nixdorf for his paper (with A.S. Law, K. Loindquist, G.J. Reams, E. Cole, K. Kanter, R.H.N. Nguyen, D.R. Harris, and the National Dental PBRN Collaborative Group):


### Clinical Sciences

**Karin Quick**

Presented to Karin Quick for her paper:


### Social and Behavioral Science & Public Health
Division of Dental Public Health


Self, K., Lopez, N., Blue, C. 2017, Dental School Faculty Attitudes towards Dental Therapy–A Four Year Follow-up. Journal of Dental Education. 81:518-525.

Division of Dental Therapy


Self, K., Lopez, N., Blue, C. 2017. Dental School Faculty Attitudes towards Dental Therapy–A Four Year Follow-up. Journal of Dental Education. 81:518-525.

DEPARTMENT OF RESTORATIVE SCIENCES

Minnesota Dental Research Center for Biomaterials and Biomechanics


Division of Endodontics


Division of Operative Dentistry


Gomes, G., Oliveira, F., Perdigão, J. 2016. At-home tray whitening and resin infiltration after acid etching with HCl. Tooth Whitening–An Evidence-Based Perspective. 1 ed. Switzerland. Springer. p. 239-246.

Gomes, G., Oliveira, F., Perdigão, J. 2016. At-home tray whitening and resin infiltration after acid etching with HCl. Tooth Whitening–An Evidence-Based Perspective. 1 ed. Switzerland. Springer. p. 239-246.

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Division of Prosthodontics


Stephen Shuman, DDS, MS, loves to teach. Widely liked and respected, he is described by friends and colleagues as ‘an intellect with a sense of humor’ and someone who ‘knows a ton and can laugh at himself’. He also is a man of great kindness and compassion who’s devoted his career to caring for patients who are often the least able to care for themselves. In both his teaching and scholarly work, he focuses on oral health in long-term care, utilization of geriatric dental services, ethical and legal issues with special patient populations, and medical issues affecting dental care of older adults. And he’s spent the last 30 years teaching his students to do the same.

In recognition of his outstanding service and contributions to the education, research and service mission of the School of Dentistry, Dr. Stephen Shuman was named Century Club Professor of the Year. The award is the dental school’s highest honor. Shuman accepted the award at a reception held on April 28, 2017, in conjunction with the Minnesota Dental Association’s Star of the North Meeting.

“Steve Shuman is deeply committed to education and to the health and wellbeing of older adults,” said Gary Anderson, DDS, MS, interim dean, who presented Shuman his award before a room filled with School of Dentistry faculty, staff and alumni. “His personal philosophy, originally espoused by Hubert Humphrey, is that the moral test of a government and society is how it treats those in the dawn of life, the children; those who are in the twilight of life, the elderly; and those who are in the shadows of life, the sick, the needy and the handicapped. Steve Shuman walks that talk every day.”

Shuman received his dental degree from Temple University in 1982. After a time in private practice in Philadelphia, he worked for the Peoria Health Department where he became aware of the rewards and challenges of caring for adults with special needs, including nursing home residents and the developmentally disabled. He pursued an advanced education program in geriatric dentistry at the University of Minnesota, completing his fellowship and MS degree in 1989. That same year, he joined the School of Dentistry faculty.

Today, Dr. Shuman directs the dental school’s Oral Health Services for Older Adults Program and supervises the clinical experiences of dental and dental hygiene students on elective rotations at the Walker Methodist Dental Clinic. He also serves as director of that South Minneapolis clinic, and recently helped oversee a major expansion to increase its capacity for clinical education and community service. Dr. Shuman also maintains his own clinical practice at the Walker clinic. Additionally, Dr. Shuman is director of graduate education for the dental school, director of graduate studies for the MS-Dentistry Program in the University’s Graduate School, and secretary of the dental school’s Council of Faculty. He was on the Board of Directors for the American Society for Geriatric Dentistry for 10 years and is a past-president of that organization. He now chairs the Gerontological Society of America’s Oral Health Workgroup, and led the organization’s recent efforts to produce its first report on oral health and healthy aging and white paper on interprofessional solutions for improving oral health in older adults. He also has been active for many years on Minnesota Dental Association committees focused on barriers to care and adults with special healthcare needs.

Along the way, he’s received national and international recognition by such organizations as the American Dental Association and LeadingAge, which awarded the Walker Methodist Clinic and Shuman its 2016 Innovation Award. LeadingAge is the national association of non-profits representing the entire field of aging services.

Recently, Shuman also received two federal pilot grants, in collaboration with a local aerospace company, to begin developing an antenna and smartphone app to help find dentures, which frequently disappear in long-term care facilities. Another pilot grant from the CDC supports work on development of a hands-free tooth-brushing system for those with oral hygiene difficulties, a device he describes as a “carwash for your mouth.”

Dr. Stephen Shuman is an associate professor in the Department of Primary Dental Care at the University of Minnesota School of Dentistry. ©
Appointed: Anna Thurmes Barigayomwe, MA, CCC-SLP as interim director, Cleft and Craniofacial Clinic.

Awarded: First-year dental student Riley Hanson the NCAA Top 10 Award. The award recognizes Hanson for her outstanding career as a volleyball student-athlete at Concordia University in St. Paul and her success on the field, in the classroom and in the community. Hanson will accept the award at the 2018 NCAA Convention in Indianapolis, Ind., January 16-18.

Awarded: Jorge Perdigão, DMD, MS, PhD (Restorative Sci-Operative Dentistry) the prestigious 2017 Peyton Skinner Award by the International Association of Dental Research (IADR)—Dental Materials Group. The award is presented to one scientist annually who, throughout his/her career, has made outstanding contributions to innovations in dental materials. Dr. Perdigão accepted his award at the IADR meeting in San Francisco.

Retired: Chief Development Officer Fred Bertschinger, Jr. as of September 7, 2017. On staff since 2004, Bertschinger helped raise $11 million to transform the dental school’s decades-old preclinical laboratories. Under his leadership the Development Office also raised funds to support the Student Summer Research Program, model a conference room for the Division of Prosthodontics and the Gorlin Library and foyer, endow the James Q. Swift Chairmanship in Oral and Maxillofacial Surgery, build the U-M Pediatric Dental Clinic Made Possible by Delta Dental of Minnesota, and assist many to have a positive impact through current and future gift commitments to benefit students, faculty and school programs and facilities. Until plans can be finalized, Emily Best, School of Dentistry development officer, will be the contact person for the Development Office.

Selected: Elise Sarvas, DDS, MSD, MPH (Developmental/Surg Sci-Pediatric Dentistry) to serve a three-year term as the new diplomate representative of the College of Diplomates of the American Board of Pediatric Dentistry. She also has been awarded a Primary Care Medicine and Dentistry Clinician Educator Career Development Award from the Health Resources & Services Administration (HRSA). The award supports the development of future clinician-educator faculty, leaders in primary care and dentistry, and innovative projects that involve the transformation of health care delivery systems.

Transitions: David Bereiter, PhD (Diagnostic/Biol Sci-Basic Sciences) assumed the position of interim associate dean in mid-September 2017. Dr. Bereiter joined the faculty in 2006 and directs a laboratory that focuses on the neuro-biology of persistent ocular and orofacial pain. His research is supported by federal grants from the National Eye Institute and the National Institute for Craniofacial and Dental Research. Dr. Bereiter assumes the responsibilities of associate dean from Sven-Ulrik Gorr, PhD, who joined the faculty in 2008, and is returning (full-time) to pursue his research investigations. The long-term goal of his studies is to develop novel antimicrobials that can overcome bacterial resistance with low host toxicity. Using these principles, he and co-investigators developed a new anti-bacterial peptide coating for dental implants that kills bacteria on contact, preventing biofilm build-up that can cause infection and implant failure.
“If you think you are too small to make a difference, try sleeping with a mosquito.”
— DALAI LAMA

Here in Minnesota, most of us are experienced with the persistence of a single mosquito in our cabin or tent. While I do not appreciate being buzzed by the Minnesota state bird, I do value the message that anyone can make a difference in the world.

As alumni, we have opportunities to support the School of Dentistry, the students and our profession. This summer, alumni were invited to share a message with a new student to be placed into their white coats for the “White Coat Ceremony.” This ceremony is a rite of passage for new students making the transition into life as an oral health care provider and the associated commitment to professionalism, ethical practice, scientific and technical expertise, and compassionate service to others.

I enjoyed thinking about what I wanted to share with a new student of dentistry that could encourage, guide and instill passion for the profession. I hope many of you shared an inspiring message for “Notes for Coats.”

October 14, 2017, was University of Minnesota Day of Service and the School of Dentistry hosted activities at The Food Group, formerly Emergency Food Shelf Network. This one day of volunteering was a great opportunity to do a good thing and enjoy the camaraderie of fellow alumni.

The alumni society continues its long-standing tradition of supporting Continuing Dental Education with an annual educational grant. Recognizing our University of Minnesota graduates work in every corner of the country and throughout the world, we are partnering to bring the long-standing tradition of monthly Clinical Grand Rounds right to your desktop. In 2018, we are piloting wireless clinical grand rounds, known as CDE Anytime. Our new YouTube Channel will feature hour-long, continuing education, credit-based insights from idea-makers within the School of Dentistry and beyond our campus walls. To learn more, click on smile.umn.edu.

I had the pleasure, in July, to attend the Dental Hygiene Senior Recognition Banquet. The alumni society sponsors the Kathleen J. Newell Dental Hygiene Student Achievement Award which is presented to the most outstanding dental hygiene student overall on the basis of personal character, leadership and scholarship. The 2017 recipient of this award is Emily Borud.

As president of the School of Dentistry Alumni Society, I have the honor and privilege to witness the deep commitment to excellence in educating dental professionals at the University of Minnesota School of Dentistry. We can be proud of the character of our graduates. And we can be assured that our profession will continue to be held in high regard with our dedication to continual learning.

Please consider anything that you can do to “make a difference” in the world.

P.S. As we go to press, the School of Dentistry announced Erin Elliott as the senior director of alumni relations. Welcome Erin! We look forward to working with you.
Lisa Ahmann: Distinguished Dental Hygiene Alumna

Lisa Ahmann, MEd, is a gifted educator. The recipient of seven Faculty of the Year Awards from senior and junior dental hygiene classes, she is applauded by both students and colleagues as a talented educator who is as accessible and responsive in her instruction as she is generous with her encouragement and guidance.

Ms. Ahmann joined the School of Dentistry faculty in 2000 as a part-time faculty member in the Division of Dental Hygiene and became the full-time dental hygiene clinic director in 2006. She teaches undergraduate dental hygiene students, and dental and dental therapy students, as well as three courses for the graduate program in dental hygiene. Immersed in all things clinical—from evaluations and outreach to scheduling and electronic health records—she is the Division of Dental Hygiene’s tech-savvy resource who also provides technology support for all distance learning courses in the Master of Dental Hygiene Program. Her expertise in AxiUm (a comprehensive clinic management system) benefits the entire school. Additionally, she’s been a valued member of a variety of division, department and schoolwide committees, including those related to quality assurance, clinical affairs, curriculum, technology, dental materials, admissions (for dental hygiene and dental therapy), and academic search committees.

Ms. Ahmann graduated from the Dental Hygiene Program at the University of Minnesota, Duluth, and completed her baccalaureate degree in dental hygiene education at the U-M Twin Cities. She began her teaching career at Normandale Community College Dental Hygiene Program and taught there for 12 years. During that time, she completed her master’s degree in curriculum and instruction systems at the University of Minnesota.

George J. Kinney, Jr.: Distinguished Dental Alumnus

George J. Kinney, Jr., DDS, is dedicated to the highest standards in dentistry as the cornerstone of his practice, as evidenced in his outstanding skills as a dentist, his leadership and mentorship of his dental team, and his lifelong commitment to public health and community service.

He’s served in leadership roles at all levels of organized dentistry and in positions on state regulatory boards and clinical testing services for dental licensure. He was a member of the American Dental Association’s (ADA) Council on Dental Education and Licensure (2011-12 chair), its Practice Management Initiative Advisory Group, and on the ADA Commission on Dental Accreditation task force to develop accreditation standards for dental therapy education programs. He also was, for 24 years, an examiner for the Central Regional Dental Testing Service (2006-07 president).

Closer to home, Dr. Kinney was a member for two, four-year terms of the Minnesota Board of Dentistry. He was president of the St. Paul District Dental Society (SPDDS) and a delegate to the Minnesota Dental Association, is a member of the SPDDS Speakers’ Bureau (since 1985), and received the SPDDS Outstanding Service Award in 1999. He’s volunteered to care for patients at the Union Gospel Mission and with Give Kids a Smile, and has been involved, as well, in activities of the Woodbury Lions Club, Woodbury Lutheran Church, Boy Scouts of America, and youth baseball.

He’s also held leadership roles in the Minnesota Academy for Gnathology Research, Minnesota Academy for Comprehensive Dentistry, and the Minnesota Academy of General Dentistry, and has pursued advanced dental education at the L.D. Pankey Institute.

His integrity, ethics, empathy and respect for patients is evidenced in his own dental practice, which he started from scratch in 1973.
Please submit brief notices about milestone events and activities to: U of M School of Dentistry, Alumni Relations ( attn: Erin Strong Elliott), 515 Delaware St. S.E., 15-136 Mooe Tower, Minneapolis, MN 55455 or estrong@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.

1946
Irene Orr (D.H.) died February 8, 2017. After graduation, Orr practiced in several Minneapolis dental practices before joining the University of Minnesota School of Dentistry faculty. She taught in the Division of Dental Hygiene until her retirement in 1988.

1949
Dorrance (Andy) Anderson (D.D.S.) died May 14, 2017. He was 100 years old.

Born in Blue Earth, Minn., Anderson graduated from Iowa State University with a degree in dairy industry and worked for the U.S. Department of Agriculture before enlisting and receiving a commission through the V-7 Program as an Ensign (Herman Wouk and Cyrus Vance were classmates). He later was accepted to U.S. Navy flight training, flew PB4Y-2s during WWII, and continued in the U.S. Navy Reserve until his retirement as a Captain in 1977.

After the war, he entered and graduated from dental school, then moved in 1953 to Carpinteria, Cal., where he practiced general dentistry for 52 years. For many of those years, his wife Betty was his dental assistant. Maintaining the practice in Carpinteria, they moved to Santa Barbara (1959) and to Montecito (1974) before retiring at the ages of 88 and 87.

The Andersons were generous with their time and talents. In the 1950s, they gave one free day of dental care a week to children of Latino farm workers in Carpinteria. In 1960, the family spent four months in Madagascar where they opened a dental clinic in Manambaro. Dr. Anderson traveled alone to Kathmandu, Nepal, in 1962 to open the country’s first modern dental clinic.

1954
Myrtle Kettner (D.H.) died May 2, 2017. She worked at a local dental clinic during high school and for a year after graduation in preparation for college. After one year at St. Olaf College, she transferred to the U-M dental hygiene program and, after graduation, worked her entire 30-year career at the same Edina clinic caring for generations of patients. She filled her life with church activities, travel on six continents, 57 years of marriage and family, quilts, pies, and her dental hygiene career, which included 11 dental missions to Honduras.

1958
Joanne Rau (D.H.) died February 2, 2017. She practiced dental hygiene for 40 years, some of which were with Michael Babcock, D.D.S. (’69) in Prior Lake. She was a devoted mother, an avid golfer, religious volunteer, and bargain hunter who loved baked goods, travel, crafts, reading, the songs of Dean Martin, and Bradley Cooper. She retired to Sun City West, Ariz., where she remained until her death.

1959
Clayton McKinney (D.D.S.) died February 6. After graduation, he enlisted in the U.S. Air Force and was stationed in Okinawa, Japan from 1959-1961. After his military service, he opened a practice in Madison, Wisc., where he practiced for 42 years. McKinney was a life member of the Dane County Dental Society and the American Dental Association, and was president of the Dane County Dental Society in 1992. He created a volunteer dental program while in Madison, chaired the Insurance Committee for the Wisconsin Dental Association (WDA), and was secretary of the WDA Insurance Programs board of directors.

1965
Lewis Pierce (D.D.S.), Saint Paul, received the Minnesota Dental Association’s (MDA) 2017 Humanitarian Service Award. He worked for five years with Project HOPE (Health Opportunities for People Everywhere), which included one year as program director in Lisbon, Portugal, and two years (as program director) in Hangzhou, China. He spent eight months in Russia developing a Humanitarian Assistance Program, and one year as division director at HOPE headquarters in Millwood, Virginia. He also has been a Global Volunteer, establishing dental clinics in Tanzania and Ghana and, with his own funds, created numerous scholarships to train residents at dental school in Tanzania so they can staff the clinic he started. He continues to volunteer in the Cooper Canyon region of Mexico, treating Tarahumara Indians; in Ghana, Africa; and with Operation Grace Minnesota, a mobile dental van providing free dental services throughout the state.

1967
Reunion: Forty-four classmates from as far away as California and Florida celebrated the 50th anniversary of their dental school graduation. The event on September 8, 2017, featured a dental school tour and a reception/dinner. The reunion was organized by Dr. Steve Litton.

Edward F. Kishel, Jr. (D.D.S.), St. Paul, Minn., was named the Minnesota Dental Association’s (MDA) 2017 Guest of Honor in recognition of his five decades of service to the profession. He served as a member and chair on a variety of key committees for both the St. District Dental Society (SPDDS) and the Minnesota Dental Association, among them the SPDDS Midwinter Meeting Planning Committee, the SPDDS Executive Council, the St. Paul Speakers’ Bureau, and the MDA Dental Education Committee. As MDA committee chair, he helped develop a plan to expand existing state dental assisting schools to include dental hygiene programs, an education model that continues today. He was president of the SPDDS (1981), of the MDA (1996), and served on the board of the Minnesota Dental Foundation (1999-2016), eleven of those as chair. In 2002, he was elected to the American College of Dentists and, that same year, accepted the SPDDS Outstanding Service Award.

1968
John Wanio (D.D.S.), Duluth, Minn., received the Minnesota Dental Association’s (MDA) 2017 Outstanding Service Award. In addition to serving as president of both the Northeast District Dental Society (NEDDS) in 1982 and the MDA in 1983, he also was an MDA trustee for two terms that ended in 1999. He is a member of the MDA’s Environment and Safety Committee and chair of the Association’s Opioid Task Force. He created
Remembering Our Faculty

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

Shelley Grimes

Shelley Grimes (Ph.D.), associate professor in the Department of Diagnostic & Biological Sciences, Institute of Molecular Virology, passed away on March 20, 2017. She was 54 years old. Her passing occurred on the first day of spring which was always her favorite day of the year.

Shelley Grimes was one of the good guys in the world. After completing her undergraduate studies at St. Olaf College where she became interested in microbiology and genetics, Shelley entered graduate school at the University of Minnesota and began working in the lab of School of Dentistry scientist Dr. Dwight Anderson who was studying a simple virus that infects soil bacteria. Shelley completed her Ph.D. in the Anderson lab before moving on to a one-year postdoctoral position in Phoenix. In 1990, she accepted a full-time position in the School of Dentistry, working alongside her mentor and, together, they continued his study of the fundamental principles of virus assembly.

When Anderson retired, he passed the torch of his 40 years of productive research to Shelley and Paul Jardine, Ph.D., who joined the lab in 1997.

Shelley’s commitment to her investigation of how viruses assemble has done much to lay the foundation for a better understanding of how the biological world works. It is work that informs science of the basic rules for how living cells interact, assemble and function. But it was her enthusiasm for her life’s work and the generosity of spirit with which she approached her work and her friendships that endears her to those who had the pleasure of knowing her. Described by her family as a woman of science and a woman of faith, a proponent of meditation and health, and strong willed, intelligent, imaginative, motivated, funny and mischievous, she was all this and more. The School of Dentistry has lost a generous colleague and dedicated friend.

Jeff Rossmann

Jeff Rossmann (D.D.S.) was elected chair of the American Board of Periodontology. He’s been a board member for the past six years. Rossmann maintains a private practice in the Dallas area and is a clinical professor at Texas A&M School of Dentistry (formerly Baylor College of Dentistry) in graduate periodontics.

Mike Fuchs

Mike Fuchs (D.D.S. ’74 and Ortho ’76) was the 2017 Guest of Honor at the South Dakota Dental Association Annual Meeting. Fuchs is a diplomate of the American Board of Orthodontics, and a member of Omicron Kappa Upsilon Honorary Dental Society, the Pierre Fauchard Academy, the South Dakota Dental Association, the American Dental Association, the Midwestern Society of Orthodontists, and the American Association of Orthodontists.

Robert Larson

Robert Larson (D.D.S.) retired from his general dentistry practice in Roseau, Minn. After graduating from dental school, Larson served as a captain in the U.S. Air Force for two years and then settled in Roseau, Minn., where he practiced for 25 years. Larson sold his practice to Jon Hallie (’15) who is a native of Roseau and renamed the practice Hallie Family Dentistry.

Ralph DeLong

Ralph DeLong (Ph.D. ’74, M.S. ’81) retired in June 2017 as a professor at the U-M School of Dentistry where he blended his unique interests in dentistry, physics and prosthodontics into a career at the forefront of technology and biomaterials research.

After earning a Ph.D. in nuclear physics, followed by a D.D.S. and a master’s degree in prosthodontics (all from the University of Minnesota), DeLong was appointed a research associate in the dental school’s biomaterials program in 1981 and then an assistant professor in biomaterials and fixed prosthodontics (1984-88).

An early entrant into robotics research, he co-developed ART (Artificial Resynthesis Technology), an artificial mouth capable of replicating a year of chewing in a single day that is used to develop and test dental materials.

In 1983, the Journal of Research and Development selected ART as one of the 100 most significant new technical products of the year. That same year, DeLong and co-developer, Dr. William H. Douglas, received the "I.R. 100 Award" for the development of a "Biomaterials Evaluation System (Oral)."

DeLong went on to develop AnSur (Regents, Univ of MN), a software program that could utilize data from a 3D surface digitizer to measure surface changes in the oral cavity over time. The addition of an optical digitizer spurred the development of the "Virtual Dental Patient" (VDP). In 1997, DeLong received a NIH/NIDCR grant to test the hypothesis that a virtual computer rendition of a dental patient and its clinical sources are closely correlated over a wide range of clinical conditions.

DeLong directed the Minnesota Dental Research Center for Biomaterials and Biomechanics (2004-2007), twice chaired the dental school’s Department of Restorative Sciences, chaired the School’s Promotion and Tenure Committee, and led the school through two multi-year Strategic Planning initiatives. In 2005, the U-M School of Dentistry awarded DeLong its highest honor, the Century Club Professor of the Year Award.


R. David Resch (D.D.S.), Roseville, Minn., was installed as president of the Minnesota Dental Association at the association’s House of Delegates Meeting in September.
1981
Brent E. Larson (D.D.S.), professor and director of the Division of Orthodontics at the University of Minnesota School of Dentistry, and a practicing orthodontist in Rochester, Minn. since 1990, was elected the 2017-18 president-elec of the American Association of Orthodontists (AAO).

1983
James Rostvold (D.D.S.), Grand Rapids, Minn., was installed as trustee of the Northeastern District Dental Society at the Minnesota Dental Association’s House of Delegates Meeting in September.

Douglas Williams (D.D.S.), Bemidji, Minn., was installed as treasurer of the Minnesota Dental Association at the association’s House of Delegates Meeting in September.

1985
Kevin Dens (D.D.S.), Baxter, Minn., was named to a second term as speaker of the house at the Minnesota Dental Association’s House of Delegates Meeting in September.

Stephen McDonnell (D.D.S.), St. Paul, Minn., was installed as first vice president of the Minnesota Dental Association at the association’s House of Delegates Meeting in September.

1992
David Andersen (D.D.S.), Park Rapids, Minn., was installed as president-elect of the Minnesota Dental Association at the association’s House of Delegates Meeting in September.

1997
James Nickman (D.D.S.), North Oaks, Minn., was installed as second vice president of the Minnesota Dental Association at the association’s House of Delegates Meeting in September. He also was elected president of the American Academy of Pediatric Dentistry (AAPD) at the AAPD annual meeting on May 28, 2017, in National Harbor, Md. Nickman is an associate clinical professor at the U-M School of Dentistry and is in private practice with Metropolitan Pediatric Dental Associates (four locations in the Twin Cities). He is the pediatric lead for the Minnesota Mission of Mercy and the Healthy Smiles Healthy Children Foundation Dental Home Day.

2004
Ben Knutzen (D.D.S.) has practiced dentistry in Brookings, S.D. since graduation. He recently opened the doors on a new building for Knutzen Family Dentistry, expanding its space by three times the original footprint of the existing building.

Nathan Mork (D.D.S.) is the author of an Indian Health Service (IHS) blog on “Building Early Childhood Caries Prevention into IHS Activities.” Mork serves as the Indian Health Service Bemidji Area Dental Consultant as well as the deputy chief dental officer of the White Earth Health Center in Ogema, Minnesota. His work includes educating parents, community groups, teachers and daycare providers about the prevention of dental decay in American Indian children.

2006
Amber Cziok (D.D.S.) Litchfield, Minn., was installed as trustee of the West Central District Dental Society at the Minnesota Dental Association’s House of Delegates Meeting in September.

2007
The D.D.S. Class of 2007 held a class reunion on April 28, 2017 at the Downtown in St. Paul. The reunion was organized by Geoff Archibald, D.D.S. The class donated proceeds from the event to the School of Dentistry Peloton (team) for the Chainbreaker bike-a-thon ride which took place in August.

2008
Tracy St. Dennis (D.D.S.) opened her new general dentistry practice, Willow Lake Dental, in Vadnais Heights, Minn. After graduation, St. Dennis spent a number of years working at a community clinic in East St. Paul before making her vision for a state-of-the-art, relaxed, inviting dental practice a reality.

2011
Adam Holder (D.D.S.) opened the first dental office in the City of Carver, Minn. the week of June 26, 2017.

2012
The D.D.S. Class of 2012 held a class reunion on April 29th at Bonfire in St. Paul with about 35 alumni attending. The reunion was organized by Drs. Jon Heezen, Melissa Lee and Stephanie Lee.

2015
Alex Provo (D.D.S.) joined Drs. Debra Ettel and David Resnick (’92) in their practice, Prairie Dental Centers, PA. They have four locations (Ada, Twin Valley, Mahnomen, and Fertile) in rural northwestern Minnesota.

2017
Shakeyla Barber (D.D.S.) is in a residency program in Bronx, New York, to gain more experience in a hospital setting.

Jeff Harrie (D.D.S.) joined Designer Smiles in Fargo, N.D. His areas of interest include general and cosmetic dentistry, dental implants and sedation dentistry.

The Class of 2008 held its 10th reunion one year early to support classmate Tessie Thompson-Sylvester, age 36, who was diagnosed with inoperable cancer just days before her husband’s death at age 44 following a six-year battle with ALS. In addition to proceeds of the class reunion and funds raised by classmates, a crowdfunding page has been created to generate support for the couple’s two sons, ages 6 and 5.

For more information: www.gofundme.com/sylvesterjoyansunshinefund.
January 2018

January 18
Alumni Association Board Meeting

January 20
Florida Minne-College (UMAA)
12:30 p.m. to 6:00 p.m.
Hilton Naples, Fla.
Registration and information:
z.umn.edu/mcfj18

February 2018

February 10
Give Kids a Smile
University of Minnesota School of Dentistry
Minneapolis, Minn.

February 10
Arizona Minne-College (UMAA)
12:30 p.m. to 6:00 p.m.
Marriott at McDowell Mountains
Scottsdale, Ariz.
Registration and information:
z.umn.edu/mcaz18

February 22
Legislative Kickoff Breakfast
7:30 a.m. to 9:00 a.m.
(Program at 8:00 a.m.)
McNamara Alumni Center

February 28
Arizona Alumni & Friends’ Brunch
10:00 a.m. to Noon
Palmbrook Country Club
Sun City, Ariz.

March 2018

March 21-24
American Association for Dental Research
Fort Lauderdale, Fla.
Reception:
March 23
7:00 p.m. to 8:30 p.m.
Hilton Marina Hotel
Fort Lauderdale, Fla.
For information:
Jan Casey
(612) 626-5731

April 2018

April 26-28
Star of the North Meeting
Saint Paul RiverCentre
Saint Paul, Minn.
For information:
(612) 767-8400
(800) 950-3368

April 27
Minnesota Dentistry Reception
5:30 p.m. to 7:30 p.m.
St. Paul Hotel
St. Paul, Minn.
For information:
Rance Flory
(612) 625-7678
chan0572@umn.edu

April 27-28
28th Annual Daniel E. Waite Lecture
Rochester, Minn.
Speaker:
Ramon L. Ruiz, DMD, MD
Medical Director, Pediatric Craniomaxillofacial Surgery and the Program Director, Craniofacial Disorders Program
Arnold Palmer Hospital for Children, Orlando, Fla.
Contact:
Christopher F. Viozzi, DDS, MD
viozzi.christopher@mayo.edu
Kevin Arce, DMD, MD
arce.kevin@mayo.edu

May 2018

May 3
School of Dentistry Alumni Society Board Meeting

May 4-8
American Association of Orthodontists
Washington, D.C.
Alumni Reception:
May 5
7:30 p.m. to 9:00 p.m.
Marriott Marquis Hotel

May 10
DDS Senior Awards Banquet
(By invitation only)

May 11
School of Dentistry Graduation
10:00 a.m.
Northrop Auditorium
University of Minnesota
Minneapolis Campus
Minneapolis, Minn.
For information:
(612) 625-8947

May 17-19
South Dakota Dental Association Annual Session
Sioux Falls, Convention Center
Sioux Falls, SD
Alumni Reception:
TBA

May 24-27
American Academy of Pediatric Dentistry
Honolulu, Hawaii
Alumni Reception:
TBA

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

Erin Strong Elliott
Alumni Relations
(612) 626-6884
estrong@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
Discount Available

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

*See smile.umn.edu for updates.

**J A N U A R Y  2 0 1 8**

- Adult Oral Anxiolysis and Sedation
  January 12, 2018
- Advanced Composite Restorations
  January 12 to 14, 2018
- Trade Secrets 2018: Mastering New Challenges in Dentistry
  January 19, 2018
- Prosthetic Management of the Edentulous Mandible with a Two-implant Overdenture
  January 20, 2018
- Contemporary Endodontic Treatment Protocols for Multi-specialty Care
  January 26, 2018

**F E B R U A R Y  2 0 1 8**

- 23rd Annual Ski & Learn: Aspen Snowmass
  February 8 to 10, 2018
- Winter Dental Hygiene Seminar—Exposed & Vulnerable: Managing Dentin & Root Exposures
  February 9, 2018
- Interpreting Cone Beam CT Images: An Interactive Workshop
  February 9, 2018
- Aesthetics in Your Dental Practice: Neurotoxins
  February 16, 2018
- Approaching, Diagnosing & Treating Patients Impacted by Trauma, Violence & Acute Injury
  February 16, 2018
- Expanding Your Practice with Facial Rejuvenation Services: Dermal Fillers & Volume Enhancers
  February 17, 2018
- Removal of Bond Material with Rotary Instrumentation: A Hands-on Program
  February 22, 2018
- Restorative Expanded Functions: 80-Hour Training Program
  Begins February 23, 2018

**M A R C H  2 0 1 8**

- 14th Annual Dental Research Updates
  March 2, 2018
- Practical Oral Surgery for the General Dentist
  March 2, 2018
- Exodontia Techniques Workshop
  March 3, 2018
- Taking Sleep Apnea Beyond Oral Appliances
  March 9, 2018
- Sleep Apnea Evaluation and Bite Registration Hands-on Workshop
  March 10, 2018
- Getting to Yes with Patients: Strategies for Complex Planning, Sequencing & Payment
  March 16, 2018
- Anterior Esthetic Techniques & Materials
  March 23 & 24, 2018

**A P R I L  2 0 1 8**

- Streamlined, Systematic Recordkeeping
  April 5, 2018
- Treatment Planning for Medically Complex Patients Living in the “Second Fifty”
  April 6, 2018
- Implant Supported Prosthesis Utilizing the All-on-4™ Treatment Concept: A Hands-on Program
  April 14 & 15, 2018
- Local Anesthesia
  April 30 to May 2, 2018

**M A Y  2 0 1 8**

- Promoting Healthy Behavior with Motivational Interviewing
  May 4, 2018
- Research Design—Postgraduate Program
  May 4 to 5, 2018
- Mandatory & Core Training for the Dental Team
  May 11, 2018

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

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

**Phone:**
(612) 625-1418 or (800) 685-1418

**Fax:**
(612) 624-8159

**Website:**
smile.umn.edu
Electronic Service Requested

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