

LLUSD ARTICULATOR

The melding of compassion and competence in dental education



LOMA LINDA
UNIVERSITY
School of Dentistry

**New Center for
Computer Aided
Digital Design**

**LLUSD's 62nd
conferring of
degrees**

**Servants of service:
The improbable
journey of Yiming
Li and Wu Zhang**

**Tord Lundgren's
multifaceted
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LOMA LINDA UNIVERSITY
School of Dentistry

Office of Development
11175 Mountain View Ave., Suite A
Loma Linda, CA 92354
909-558-4754
sdgiving@llu.edu

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LLUSD ARTICULATOR

The melding of competence and compassion
in dental education.

VOLUME 29, NUMBER II SUMMER/AUTUMN 2018

Articulator (formerly **Dentistry**) celebrates with alumni and friends the School of Dentistry's efforts to combine compassion and competence in the education of oral healthcare professionals. LLUSD alumni represent the strength of that amalgam. The journal is published twice each year by the Loma Linda University School of Dentistry Office of Marketing.

Dean

Robert Handysides, DDS

Alumni director

Kathleen Moore, MHIS

Director, Office of Marketing

Krista Weymar, MBA

Director of Publications

Managing editor

Douglas Hackleman, MA

Contributing editor

Edna Maye Loveless, PhD

Science editor

Yiming Li, DDS, MSD, PhD

Photographers

Carmen Fernandez

Daryl Osborne

LLUSD Mission

Loma Linda University School of Dentistry seeks to further the healing and teaching ministry of Jesus Christ by providing an environment wherein:

Students learn to provide high quality oral healthcare based on sound scientific principles

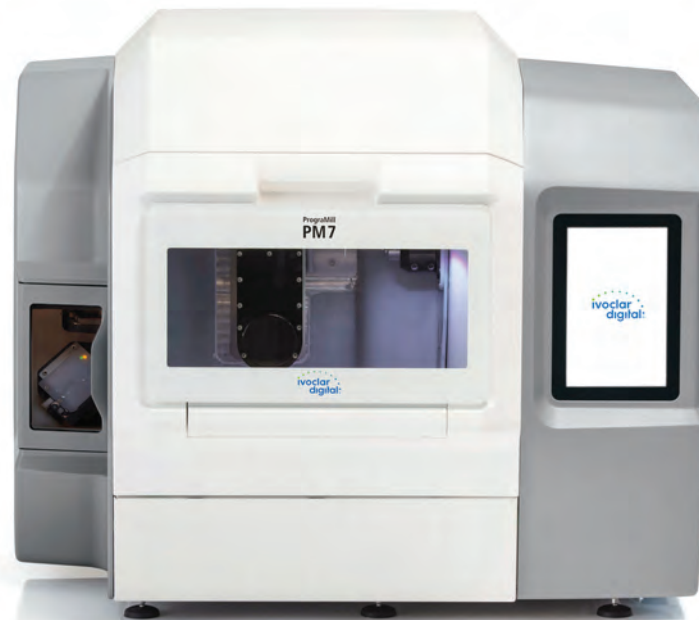
Patients receive competent care, which is preventive in purpose, comprehensive in scope, and provided with compassion and respect

Faculty, students, and staff value the patient relationship, respect diversity, and share responsibility by working together toward academic, professional, spiritual, and personal growth

Scholarly activity and research provide a foundation for evidence-based learning and enhance whole person care

The workplace environment attracts and retains a superior and diverse faculty and staff who motivate, educate, and serve

Our communities (local, global, and professional) benefit from our service, stewardship, and commitment to life-long learning.



LLUSD's acquisition of the Ivoclar Vivadent PM7, a state of the art, high-volume digital mill, represents a significant boost to the School's preparation of its graduates for the practice of digital dentistry (see pages 9 thru 11).

Editor's note:

Shortly after this recent Thanksgiving, I was reclining in a Loma Linda dentist's chair waiting for the anesthesia to take effect. My mind wandered over a lifetime of experience with dental procedures and it occurred to me that all of my oral healthcare has been provided by dentists who have had meaningful relationships to the LLU School of Dentistry.

My first experiences, at the hands of an LLUSD graduate program alumnus in a Southeast Asian mission field, produced my lifelong dental phobia. He filled several cavities in my primary molars without anesthetic, insisting that baby teeth didn't require it. I can still feel the searing flash of pain from head to toe when he would hit a nerve or the tooth got too hot.

Back in the States as a teenager, my dentist was a practitioner whose name graces the Koppel Special Care Dentistry Center. Albert Koppel placed amalgams in several of my mature molars that remain there today. On my eighteenth birthday, he chiseled out my four wisdom teeth after his anesthetist-wife, Dr. Betty Koppel, administered intravenous sedation. To this day, Al remains my friend and a most generous friend to the School of Dentistry.

In the mid-1970s, an LLUSD student dentist who now practices in Hawaii successfully placed a gold foil on the lingual surface of my number 10 lateral incisor.

Early in the 1980s, the late Durwin Chamberlain, DDS, MS'82, then an LLUSD faculty member, revitalized both of my lower cuspids (still have them).

It was nearly thirty years before another LLUSD alum practicing in the Loma Linda area replaced that gold foil with a more cosmetic composite restoration and one of Al Koppel's 55-year-old amalgams with a composite. The restorations were performed cheerfully, deftly, quickly, and the experience was painless.

I left the office with my new composite fillings grateful for the compassionate competence I have received at the hands of these mostly LLUSD trained dentists.

Wishing you a meaningful new year,

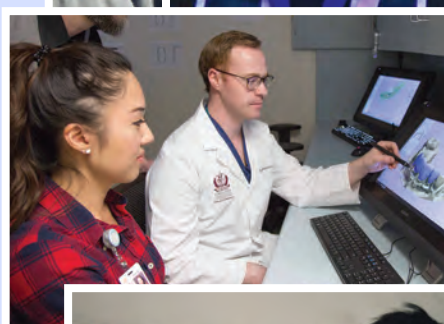
Doug Hackleman, MA

Editor

Cover: Dr. Yiming Li and Dr. Wu Zhang at a recent LLUH Employee Recognition Banquet.

CONTENTS

- 4 Good news for 2019 and beyond**
- 9 New Center for Computer Aided Digital Design**
- 12 Tord Lundgren's multifaceted career**
- 16 LLUSD's 62nd conferring of degrees**
- 20 Servants of service: the improbable journey of Yiming Li and Wu Zhang**
- 28 Student Achievement Awards**
- 39 NASDAD grateful for 75 years**
- 44 Dental hygiene students published**



Direct advertising inquiries and correspondence to:

**Publications Director
LLU School of Dentistry
11245 Anderson Street, Ste 120
Loma Linda, CA 92354**

**Phone: (909) 558-4984
Fax: (909) 558-0992**

**To reach School of Dentistry
Alumni Affairs, contact:**

**Jeri Fowler, assistant director
LLUSD Alumni Affairs
11245 Anderson Street, Ste 120
Loma Linda, CA 92354**

**Phone: (909) 558-4399
Fax: (909) 558-4858**

**For admissions information
contact:**

**School of Dentistry
Office of Admissions
11092 Anderson Street
Loma Linda, CA 92350**

**Admissions.sd@llu.edu
Phone: (909) 558-4621**

DEAN'S MESSAGE

Good news for 2019 and beyond

Everybody likes good news, so I'm very pleased to be able to bring you some.

The School of Dentistry is flourishing. We have matriculated a full cohort of new students into each of our programs, including dental hygiene which has struggled a bit the last couple of years.

Our most recent graduates attained more clinical experiences and graduated on time in significantly higher numbers than has been the case for the last several years. This means they have served more patients. It means the School has a fiscally stable budget with a margin we can reinvest to improve our education programs and clinics. And it means superior care to the various communities we serve.

But there is more good news.

The School of Dentistry alumni directory

The *LLUSD Alumni Directory* has not been updated and published since 2009, and I am so pleased to announce that one will be on its way to you shortly. You would hardly believe the number and kinds of impediments that have made its update more than a challenge, so I won't bore you with the details. But I want to thank particularly Kathleen Moore, MHIS, director, continuing education and alumni affairs, Jeri Fowler, assistant director, continuing education and alumni affairs, and the LLUH advancement team for overcoming the obstacles that make possible the soon-coming, revised, and updated alumni directory.

LLUSD Annual Report

An LLUSD Annual Report is something we believe our alumni will appreciate. With this in mind, our Office of Marketing team is putting together such a report that highlights the diligence of our committed faculty and staff. This yearly perspective on your alma mater will reach you early in 2019 along with the new *Alumni Directory*. We expect it to be the first of many.

A One Loma Linda misunderstanding

Since taking office, the terms One Loma Linda and Vision 2020 have been the source of consternation to some LLUSD alumni. I would like to clarify this once and for all and settle the persistent rumors that seem to abound. The disposition of your gifts to LLUSD is not in question. Your gift to your alma mater is applied only and exclusively to the program, project, or fund that you designate. It seems that a fair number of alumni have not been sure about that. You have received a variety of requests for your support toward the major rebuilding project taking place on the LLU campus under the campaign title of Vision 2020. Some



Dean Robert Handysides

of our alumni have gotten the impression that their gifts to the School might be diverted toward the cost of the new medical center and expanded children's hospital that is well under way. That is absolutely not the case. What is true is that your gifts to your alma mater are credited toward the net goal of the One Loma Linda campaign.

With that in mind, I want to thank all who have contributed this year for your supportive generosity.

Curriculum adjustments

Curriculum adjustments in progress include the integration of predoctoral and International Dentist Program students; the opening of a digital design center (see pages 9-11) in which advanced education and predoctoral students will have the opportunity to collaborate; the integration of new technologies and techniques from diagnosis to treatment; and a complete remodel of the curriculum delivery flow. This mammoth project is one that will make our educational environment 21st century competitive and provide our incoming students not only with solid principles of practice but with the latest technology available to the dental profession.

I look forward to showcasing some of these advances during our Homecoming celebration in early 2019 and to infusing you with some of the excitement I feel about the optimistic future we are embracing.

Respectfully yours,

Robert Handysides, DDS'93
Dean

WHERE ARE THEY NOW?

Brief updates on the noteworthy professional and personal activities of LLUSD alumni



Dr. James Libby

Elected president of World Health Dental Organization (WHDO) in 2015, **James Libby**, DDS'77, now oversees the Maasai Dental Clinic, a non-profit entity that provides free dental care to the Maasai people of Kenya, 50,000 of whom live within walking distance of the clinic.

Volunteer dentists, who often supervise LLUSD students, typically spend two to four weeks in the three-operator clinic that boasts digital x-rays and air compressors as

well as Adec delivery units and hand pieces to perform contemporary procedures in a third-world area.

Having sold his 35-year-old dental practice in Anchorage, Alaska, Dr. Libby now provides part-time coverage in his sons' dental practices, participates in commercial fishing in Bristol Bay, performs handyman miracles on property in Baja California, and remains active in mountain biking, motorcycle racing, and back country skiing.

Both his sons, Justin, DDS'11, and Landon, DDS'11, have participated in the Maasai Clinic dental care. Dentists interested in volunteering at the clinic should contact his wife Pam, executive director of WHDO, at <Pam@worldhealthdental.org>.

James Libby

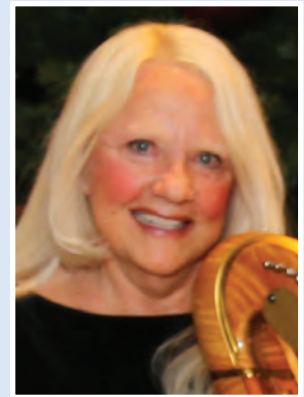
Duquessa McGuffin

Having worked in the same dental office for 42 years, **Duquessa McGuffin** loved her profession and the four generations of patients that she treated. She also liked the hours—which reduced to two days a week in later years. She had been a violin/piano major at La Sierra University for three years, earning the young musician's award in 1960. Then in a practical mode, she tried to teach children—seemingly tone deaf—and listened to her roommate's enthusiasm for a career she'd never heard of: dental hygiene.

When Ms. McGuffin turned to dental hygiene, she became proficient in periodontal scaling and local anesthesia. She also took up harp, surprising her teacher with manual dexterity developed in her dental hygiene career.

Retired now, Ms. McGuffin's music career is thriving. She plays in various symphony orchestras, sometimes as a soloist. Often with her daughter and granddaughter, both her harp students, she plays for weddings and seasonal events. Vallejo Drive Adventist Church regularly books her for Father's Day, and for 37 years she has provided harp music at the Glendale City Adventist Church's Christmas concert.

"Music is my first love," she says. And LLUSD's "highest caliber clinical training served me well. Harps are expensive; lessons are expensive."



Ms. Duquessa McGuffin

Rodney Siddall



Dr. Rodney Siddall

Asked during the dental school application process, "To what other schools have you applied?" **Rodney Siddall**, DDS'81, named Loma Linda University. The response was significant: "If you are accepted at LLU, you would be crazy not to go. Much of what Loma Linda developed years ago is just now being taught at our school." Thus alerted, Dr. Siddall studied at LLUSD, even though the tuition was five times what it would have been in his home state. "Worth every penny," he says.

Establishing a dental practice near his roots in Tallmadge, Ohio, Dr. Siddall identified with LLUSD's mission emphasis, logging more than a dozen trips to India, Guatemala, and Ecuador. He and his wife Diane serve on a 20-plus-member team organized by his home church, Christ Community Chapel, delivering medical, dental, and eye care to the poorest of their populations. He also built a dental clinic in India, and another in Guatemala with equipment renovated and shipped from his home.

In retirement Dr. Siddall hopes to continue mission trips. He will leave his surgical instruments for his successor in Tallmadge, but plans to "check them out like a library loan" for future missions. His prized 19-pound portable dental chair (designed by Steve Saint) travels with him to remote areas and enables him to serve twice as many patients.

James Willis

Originally an electrical engineer, **James Willis**, DDS'08, pursued technical writing for a Washington, D.C., legal firm he found engineering to be good preparation for dentistry. "An engineer is a problem solver," he explains. "I'm solving problems every day in the clinic" in populous Fairfax County, Virginia, and "my patients welcome my explanations."

A month after arriving in Virginia (2009) to establish a dental practice, Dr. Willis participated in Mission of Mercy, an event involving 200 volunteer dentists. A year later he co-chaired the event, beginning a 17-year involvement.

Seeking to extend dental services for the underserved, Dr. Willis has represented his profession in the Virginia House of Delegates in 2010 and 2014-17. He has coordinated a Community Dental Health task force assisting the underprivileged to navigate through available facilities.

Dr. Willis joined medical professionals in Colombia last year. A week before the team's departure, the mayor of Medellin dis-invited them because of their church-affiliated participants. Undaunted, team members secured an invitation to La Ceja instead.

Dr. Willis has served as vice president and then president (beginning September 2017) of the Northern Virginia Dental Society.



Dr. James Willis

TRANSITIONS

Bader Al-Bader

Bader Al-Bader, BDS, has been appointed educator dentist with the Division of General Dentistry where he began working in June 2018.

Dr. Al-Bader completed his dental surgery training at King Faisal University, Dammam, Saudi Arabia, in 2008. He took internships and practiced privately before taking post-graduate training from LLUSD's Advanced Education Program in Implant Dentistry and received an MSD in 2016.

Dr. Al-Bader is a Diplomate of the American Board of Oral Implantology and Implant Dentistry and an author on five peer-reviewed dental publications.



Dr. Bader Al-Bader



Dr. Ryan Becker

Ryan Becker

Ryan Becker, DDS'15, joined the Division of General Dentistry as assistant professor effective July 2018.

In 2018, Dr. Becker received a certificate from the LLUSD Advanced Specialty Education Program in Prosthodontics.

From 2004 to 2011 he applied his Andrews University Bachelor of Technology (graphic imaging) degree working for the School's Educational Support Services. "The School has been a second home to me since I first began working as a staff member in Educational Support Services in 2004. Many of the faculty at the time inspired me to go back to school to pursue a career in dentistry.

"I have a passion for learning and am excited to help students achieve their educational goals," says Dr. Becker. "And I am eager to use my experience in multimedia to aid faculty members and students to modernize the educational experience."



Dr. Trang Dang

Trang Dang

Trang Dang, DDS, joined LLUSD's Division of General Dentistry as an educator dentist effective March 7, 2018.

Dr. Dang received a DDS degree from the University of Medicine & Pharmacy Faculty of Odonto-Stomatology, Ho Chi Minh City, Vietnam, in 2008 and subsequently earned another DDS degree from the University of California, Los Angeles in 2012.

Following three years of general dentistry practice in Seattle, Washington, Dr. Dang currently serves as a general dentist for Smile Builder Dental Clinic, in Riverside, California.

TRANSITIONS

M. Toufic Jeiroudi

M. Toufic Jeiroudi, DDS, MS'82, was appointed program director, Advanced Dental Education Program in Orthodontics and Dentofacial Orthopedics, effective June 24, 2018.

A 1978 graduate from the University of Damascus School of Dentistry, Dr. Jeiroudi has been an LLUSD faculty member since 1983. Promoted to full professor in 1992, he has directed the School's Department of Orthodontics and Dentofacial Orthopedics (1984-1991) and later served as program director of its Advanced Specialty Education Program in Orthodontics and Dentofacial Orthopedics from 1991 to 1997.



Dr. Toufic Jeiroudi



Dr. Eugenie Kim

Eugenie Kim

Eugenie Kim, DDS'13, joined LLUSD's Division of General Dentistry as an educator dentist on July 12, 2018.

Since her graduation at LLUSD, Dr. Kim has been a dental practice owner in the Inland Empire's higher and lower desert communities who emphasizes cosmetic dental techniques and implant procedures. During that time, she has acquired at least seventeen certifications including those related to conscious oral sedation to 3D-guided implant placement and various Invisalign proficiencies.

7

Byron Moe

Byron Moe, DDS'64, joined LLUSD's Division of General Dentistry as an educator dentist on March 7, 2018.

Although he has extensive experience in over-denture and/or partial denture construction with retained non-vital roots and/or implants used for retention, Dr. Moe's main interests have been in removable prosthetics for adult patients. Crown and bridge associated with the reconstruction of many combination cases, with implants and/or vital teeth, also have comprised a large part of his practice.

Dr. Moe has practiced as a general dentist in Highland, California, since 1970.



Dr. Byron Moe

Ashish Sharma

Ashish Sharma, BDS, MSD'14, joined the LLUSD Oral and Maxillofacial Surgery faculty as assistant professor on July 2, 2018. Dr. Sharma has earned certificates at LLUSD in both implant dentistry (2013) and in oral and maxillofacial surgery (2018).

Dr. Sharma and his wife, Madhur, have just welcomed baby Levi Phillip to their family.



Dr. Ashish Sharma



Dr. Justin Terrill

Justin Terrill

Justin Terrill, DDS'15, has been appointed assistant professor in the Division of General Dentistry effective July 2018.

A Central Florida native, and University of Central Florida graduate in molecular biology and microbiology, Dr. Terrill earned his DDS from Loma Linda University School of Dentistry. In 2018 he completed LLUSD's Advanced Specialty Education Program in Prosthodontics, in which he was chief graduate student for the 2017-2018 academic year.



Dr. Carlos Moretta

Carlos Moretta

Carlos Moretta, DDS, assistant professor, has been appointed pre-doctoral director, Department of Oral and Maxillofacial Surgery, effective July 1, 2018.

Dr. Moretta received his DDS degree from LLU School of Dentistry in 2001 and a certificate in 2009 from the School's Advanced Dental Education Program in Oral and Maxillofacial Surgery.

Board certified by the American Board of Oral and Maxillofacial Surgery, Dr. Moretta replaces Murray Jacobs, DDS, assistant professor, as OMFS pre-doctoral director.

PROGRESS

LLUSD's new Center for Computer-Aided Dental Design (CCADD) incorporates PrograMill PM7

LLUSD is committed to graduating dentists who are comfortably competent in the practice of digital dentistry.

Consistent with its determination to remain a vanguard in dental education, the LLU School of Dentistry is incorporating digital dentistry as a primary focus of its pre-doctoral restorative dentistry education. To that purpose, the School has acquired a PrograMill PM7 for the high-volume digital manufacture (computer-guided milling) of dental restorations.

The acquisition

The PM7 is the most sophisticated of four new digital milling and grinding devices introduced by Ivoclar Vivadent, that appear to set the standard for dental CAD/CAM. The PM7 works from the scan of a mouth, impression, or model

and tool changers provide flawless automation. With the ability to centrally manage a maximum of eight discs—48 blocks in the material changer and up to 20 tools in the magazine—the PM7 ensures the right individual processing strategy for each restoration. An ionizer provides a clean workspace and minimal maintenance when milling PMMA acrylics.

But the PM7 is only one of the essential concluding steps in the digital dentistry workflow that LLUSD is teaching its class of 2019 and subsequent graduating classes.

"A major goal of the DGD," says John Won DDS'05, MS'12 (prosthodontics), head, Division of General Dentistry, is that "by 2020, 90 percent of the patient impressions taken by students will be made digitally chair-side by direct intraoral scanning, rather than by physical imprint of patients' dentition."

Utilizing intraoral scanners at their student clinic operatories, dental students will make digital impressions (scans) of their patients' mouths. For the patient who requires a traditional impression, a desktop scanner will be used to scan the physical impression. Those scans will be checked by a faculty member in the quality assurance station before moving into the Central Laboratory workflow.

Once digital scans are acquired, depending on the complexity of the restoration under consideration, they are routed one of two directions. The scans for more complex restorations are sent to the Central Lab for a lab technician to complete.

Meanwhile, the utilization of intraoral scans by students for the design of simple restorations will be accomplished through a newly instituted Center for Computer-Aided Dental Design (CCADD) in space repurposed from a portion of the School's Biomaterials Research Laboratory in the interior of Prince Hall's first floor.¹ These scans receive their quality assurance assessment

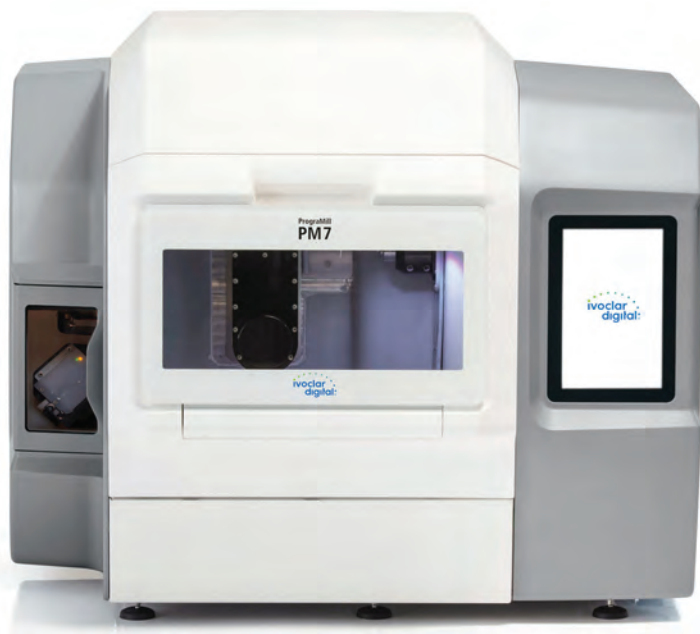


Dr. Kim provides oversight as Nicholas Lampasi, D3, takes an intraoral digital scan.

to produce inlays, onlays, veneers, single crowns, fixed partial dentures (bridges), long-term provisionals, implant restorations, or complete dentures.

Located in LLUSD's Central Laboratory, the high-power 5-axis mill is capable of processing a variety of materials for a wide spectrum of indications in wet or dry mode. The eight materials

¹ The CCADD will open under the mission statement, "To enhance education in the art and science of Computer Aided Design in the process of patient care."



The PrograMill PM7 is a \$70,000, table-top, digital factory that can manufacture restorations through the subtractive milling of eight different materials.

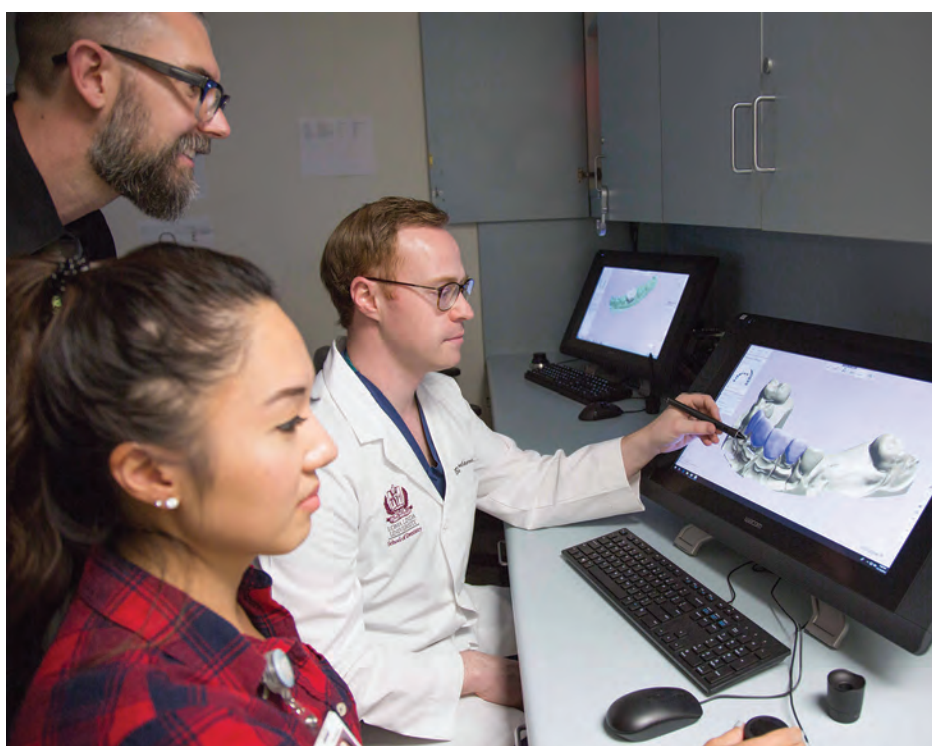
Service, dental technicians create the final restoration, whether it be a crown, an inlay, an onlay, or bridges, from the PM7's eight materials options.

A technician will load the Mill with jobs (digital restoration design files) a number of times each day, to make efficient, 24/7 use of its capabilities. While students will not be trained to operate and maintain the PM7 (built specifically for high-volume, commercial or institutional use), they will become familiar with the use of smaller, stand-alone, digitally driven mills more suited to private practice.

review by QA faculty at the CCADD. There, at one of eight workstations, student clinicians will be taught to design a simple restoration from their patients' scans.² Completed restoration designs will then be sent to a Central Laboratory queue prepared for manufacture in a designated material by the PM7. Jessica Kim, DDS'05, director, Hugh Love Center for Research & Education in Technology, chairs the School's new Technology Committee and will provide oversight for the CCADD.

This workflow is held together by the Student Clinic and Central Laboratory use of Citrix thin client technology to enable its purpose-built devices—scanners, design software, mills, printers—to access and exchange essential resources (data storage, interprofessional consults, databases, assays, etc.) from remote servers.

Whether the lab technicians design the restorations from an intraoral scan or whether the students (with the help of technicians and faculty in the CCADD) design a restoration, when the design is completed, it will be uploaded into a separate database or queue that feeds the design file to the PrograMill PM7 for manufacturing. A lab technician receives those restoration design files and directs them for manufacture into folders according to the type of material intended for any given restoration—wax, acrylic, ceramic, lithium disilicate, etc. Under the direction of Teresa Montgomery, director, Central Laboratory



As dental technologist Paul Richardson looks on, Dr. Brian Goodacre demonstrates for Bralapisut Asadamongkol, D4, the software that makes possible the digital design of a restoration from an intraoral scan

Heretofore, LLUSD students have taken chair-side impressions of patients' dentition with an impression material that was loaded into a tray and pressed into a patient's mouth. Once it hardened, the impression was evaluated by a clinic instructor. If it was approved and signed off on by a faculty clinician, the student would then take the impression to the

² Whether graduates will take on more complex restorative cases when they graduate will depend on what software and milling capabilities become available to them. It is likely many next-generation practitioners will accomplish increasingly complex restoration designs and send them to professional milling services for completion.

laboratory and using gypsum products (stone) pour a model or cast. Any errors or distortions noted in the model based on how the student mixed the materials—such as air bubbles on the finish lines of the modeled teeth—could require a do-over.

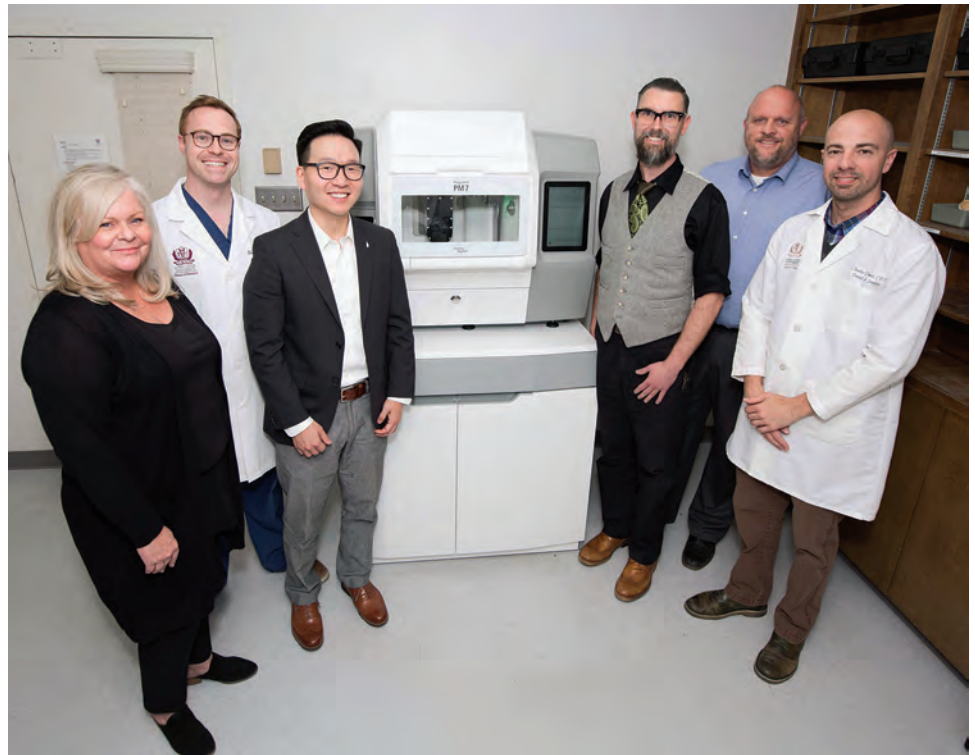
“The goal is to gain efficiency and minimize errors in the production of prosthetic restorations,” says Dr. Won, “by eliminating the physical steps in which errors can occur at the hands of students, the vast majority of whom will not be involved in doing lab work once they enter the world of private practice.”

Although the School has been using digitally guided milling technology in the Central Lab for some time to derive wax patterns for the casting process, the goal is to move away from stone casts, to generate casts using computer-aided printing technology. Furthermore, a shift is being made toward all ceramic restorations, which will enable the final restoration to be milled in one material.

So, what used to start with a brown seaweed goo and a fixed or flexible tray, the students now begin with intraoral scanners, which eliminate the physical processes from which errors often emerged.

Beyond the ability to bring efficiency and precision to the creation and manufacture of restorations, digital age technology simplifies the storage and retrieval of massive clinical records. Every spring, LLUSD students graduate and migrate to lives of service, but many of their patients remain in the School’s community. Lab work—physical impressions—distort over time, especially if they are not poured quickly. But now the student patient database will contain a permanent record of what any given impression looked like. Going forward, using archived intraoral digital scans, there is the capability of reproducing a cast at any time. Even ten years down the road, if a patient returns, the record can be retrieved, assessed, and at the very least used as a reference.

Between them, Dr. Won, Dr. Kim and Ms. Montgomery determine how the Central Lab, the CCADD, and the Hugh Love Center for Research & Education in Technology coordinate the training of students in digital dentistry.



L-R: Teresa Montgomery, Dr. Brian Goodacre, Dr. John Won, certified dental technologist Paul Richardson, Jonathan Williams, director, Dental Computer Services, and certified dental technologist Charles Bennett.

Iris Nam, DDS’10, assistant professor, Division of General Dentistry, and Dr. Won oversee a task force regarding the revision of the restorative laboratories, while Heidi Christiansen, DDS’83, MS, academic director, Division of General Dentistry, and Ms. Montgomery and Dr. Won share responsibility for the day-to-day operations of the pre-doctoral clinical laboratories.

The future

Dean Robert Handysides, DDS’93, says, “We strongly affirm the foundational biologic and clinical principles LLUSD is grounded on even as we boldly pursue improved patient care through modern systems, techniques, and the digital dentistry available to us today.”

So long as the dental profession maintains a place for physical impressions, LLUSD will continue teaching dental students to make impressions and prepare casts for the traditional way of creating restorations. But the School’s administration and faculty believe the future of dentistry is digital, and LLUSD will be graduating oral healthcare professionals who are comfortably competent in the practice of computer-aided design and manufacture of dental restorations.

Tord Lundgren's multifaceted career

Growing up a few miles from the Arctic Circle, Tord Lundgren, DDS'75, PhD'04, often had to ski to school during the long winters. An enthusiastic sportsman, playing ice hockey and soccer in his native Sweden, he finally asked himself, "What am I going to do with my life?" Whereupon at age 17 he joined the Swedish Air Force. After two of his classmates crashed and died, his mother persuaded him to abandon a military career.

Turning to work in a fire brigade, Dr. Lundgren also enrolled in college. First majoring in mathematics, after one year he said, "Maybe I should try dentistry." Pursuing an education while working as a fire fighter was a real challenge; nevertheless, he graduated as a dentist from Umeå University, Sweden, in 1975.

Dental education and early years as a general dentist alerted Dr. Lundgren to the numbers of edentulous adults in his country and the school children that presented another challenge by often developing several new cavities each year. "I wanted to educate people. Children were called for a yearly treatment, but we had a four-year waiting list for adult patients. The drilling and filling were not good enough. We needed to start preventive dental care," he said.

Dr. Lundgren started giving lectures in preventive oral care at schools, and he wrote a dental hygiene textbook. He organized two dental hygiene programs in Sweden, one



Dr. Tord Lundgren

in the south of the country and a new school in the north. He also organized and participated in numerous continuing education courses for dental assistants, dental hygienists, and dentists. He reports with satisfaction that this collective effort by motivated individuals has resulted in a turnaround in Swedish dental health. Today 75 percent of all 19-year-olds are caries free, without fillings and with healthy gums. During the 1970s, the average 65- to 70-year-olds had five to six remaining teeth. Today very few Swedish seniors are edentulous, and on average,

people in that age range have 20-plus teeth. He notes soberly that those statistics may change because more than 200,000 refugees arrived last year from countries lacking adequate dental care.

The expanding field of periodontics, especially its advances in dental implants, attracted Dr. Lundgren. After completing certification and residency in periodontics at the University of Lund, Sweden (1982), Dr. Lundgren served as chair and consultant at Norrbotten Dental

Specialty Center, Sweden (1989-99). This is one of the primary centers for periodontal and dental implant treatment in Sweden. He worked in Riyadh (1991-1995) and Jeddah (2010-15) at the King Faisal Specialist Hospital & Research Center, Saudi Arabia, providing dental care for tertiary hospital patients and top-ranking VIPs. During these assignments, the Lundgren family lived in a compound of expatriates, and his children had excellent schooling with some 1,800 students at the International American Schools in Riyadh and Jeddah.

Completing a second periodontics program at Loma Linda University (2001), Dr. Lundgren then pursued a doctorate in odontology at the University of Malmö, Sweden (2004), noting that unlike PhDs pursued by most United States dentists, his doctorate focused on clinical dentistry. Among various research projects, he explored the unusual incidence of tooth loss in Middle Eastern children and teenagers that traces to a genetic defect.

Just as he and his wife were discussing retirement plans, LLUSD invited Dr. Lundgren to assist in its accreditation preparation and then to chair its Department of Periodontics. By this time Dr. Lundgren had served as an educator not only in Sweden and Saudi Arabia, but

also as a program director for the graduate periodontics programs at the University of Florida, University of California San Francisco, and Loma Linda University.

Currently completing two years as chair, he would like to strengthen dentistry's involvement in cross-disciplinary education, collaboration, and procedures.

Always active in sports, Dr. Lundgren says he has included his family in numerous sailing trips. "During the short and intense summers in Sweden ('country of the midnight sun') we were sailing around the clock and almost lived on the boat." He also has developed expertise in training military and service dogs. His current "student" is a golden doodle (golden retriever/poodle)

bred for the job. She is a privileged member of his party at restaurants and a cool passenger with him when he boards planes.

With dual citizenship (Swedish and US), Dr. Lundgren anticipates that retirement with his wife, Guisella, will be split between the two countries in the attempt to catch the best weather in each while enjoying the families (five grandchildren) of their four children—a dentist and two engineer sons in Sweden and a fashion designer daughter in California.

"I wanted to educate people. Children were called for a yearly treatment, but we had a four-year waiting list for adult patients. The drilling and filling were not good enough. We needed to start preventive dental care."

2019 LLU/AAID Implant MaxiCourse®



LOMA LINDA UNIVERSITY
School of Dentistry



Over 500 clinicians have completed the LLU School of Dentistry and AAID MaxiCourse program.



The 2019 LLU/AAID MaxiCourse® offers 300 hours of lectures, hands-on workshop sessions, live surgical demonstrations, online lectures, and clinical experiences that place dental implants on participating patients. The LLU/AAID MaxiCourse® brings the experience of widely regarded instructors and clinicians from Loma Linda University and around the world.

The 10-month sessions (two days per month) also help prepare participants to take the written portion of the AAID Associate Fellow Membership Examination. The didactic portion of the course includes information for beginning, intermediate, and advanced clinicians in implant dentistry who wish to expand their knowledge in this field.

The program is designed to take its participants systematically through the options learning approach of implant dentistry provides.

Starting with basic concepts, diagnosis, treatment planning, dental implant surgery, and implant prosthodontics, attendees develop sequential treatment plans on their own patients and participate in performing surgeries with the assistance of experienced faculty members and residents of the Advanced Education Program in Implant Dentistry.

Attendees also experience hands-on workshops during which procedures such as cone-beam imaging analysis, simulated patient-based dental implant surgery on life-like mannequins, and guided-bone regeneration procedures on cadavers and pig jaws complete their understanding of basic and advanced dental surgical procedures.

Dates: March 7 - December 6, 2019

Tuition: \$18,000

To register for LLU/AAID MaxiCourse contact Loma Linda University School of Dentistry Continuing Dental Education office at (909) 558-4685 or visit us online at: dentistry.llu.edu or www.llumaxicourse.com

Hooding tradition begins with class of 2018

With the 2018 commencement two days away, graduating DDS and DDS (IDP) students participated in a new LLUSD tradition—a hooding ceremony at the Loma Linda University Church.

Before the hoods and white coats were distributed, nine student awards were presented and a vocal ensemble of graduating predoctoral students was accompanied on the piano by Justin McAuliff, D3.

Hooded with the color that signifies their profession, each student was welcomed as a dental colleague by the faculty of their choosing, as family members stood in approval.

Dean Robert Handysides presided over the Presentation of White Coats for the 2018 classes of 91 Predoctoral Dentistry Program students and 24 International Dentist Program students.



Graduating predoctoral dental students assembled in robed regalia.



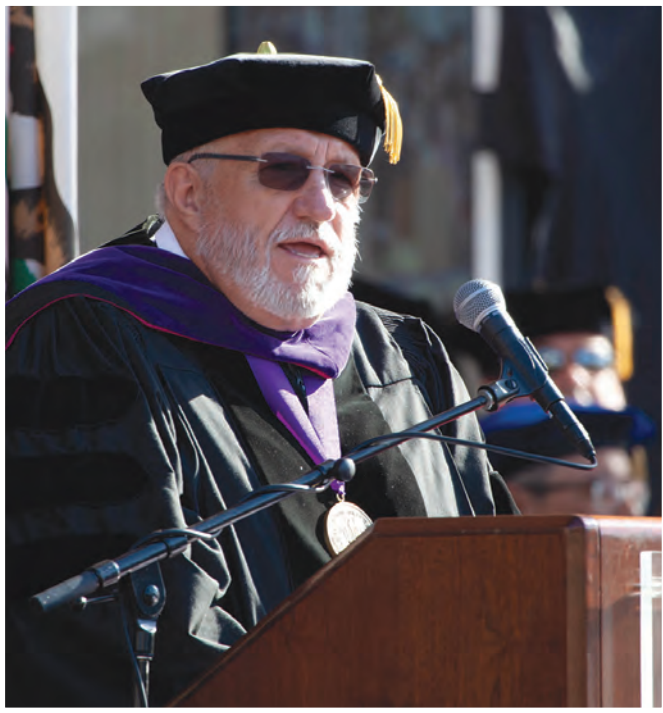
Graduating International Dentist Program students pose in robed regalia.

COMMENCEMENT 2018

LLUSD's 62nd conferring of degrees

With its massive 2020 medical center rebuild beginning to dominate the Loma Linda University campus' southern elevation, the School of Dentistry celebrated its 62nd conferring of degrees on May 27, 2018.

It was home-grown gray eminence, Kent Hansen, JD, LLU general counsel since 2000, who graced the School's 188 graduates with departing wisdom.



Mr. Kent Hansen discusses "a cause bigger than themselves."

Having taught a Dentist and the Law course at LLUSD for over 20 years, and having "represented dentists in practice purchases and sales, contracts, employment disputes, and professional licensure issues," Mr. Hansen made four observations about dentists and dental hygienists "who are genuinely beloved and respected by their patients and their communities: They choose to devote themselves to a cause bigger than themselves; they choose to live their lives with joy; they choose to give priority to their relationships with family and friends; and they choose to put God first in their lives."

After elaborating on that quartet, Mr. Hansen assumed the prophetic voice. "If you are going into dentistry just for the money, you will never be satisfied. . . . [W]hen money-making becomes one's sole professional focus, he or she suffers a loss and an enjoyment of life, patients become no more than dollar signs, families become hindrances to your work, colleagues become rivals, and your life becomes much smaller."

"The dream of material success and luxury possessions," he reinforced the point, "carries with it the cost of hard work and long hours. Professionals and executives can spend so much time on their practices and careers that their colleagues and employees become their family and their families become strangers."

Mr. Hansen followed his recommendations and warnings with the uplifting benediction that those who know they are loved "by the God that gives us life" have the "freedom and confidence to live without dependence on the conditional approval of humans who can be fickle and arbitrary with their affections.

"When God is first in your life, the other choices—to live for something bigger than you, to live with joy, to give priority to family and friends—are all possible and inevitable," Mr. Hansen concluded. "With those choices, you will be much more than a dental professional. You will be a beloved professional."

BS (DH) class of 2018

Alexis Lemmon, president, dental hygiene class of 2018, said she and her classmates were at commencement to celebrate their accomplishments "but also here to celebrate our failures, because we couldn't have achieved our goals without them. Every loss and every defeat has only pushed us to work harder and make bigger sacrifices. After every failure our goals became clearer. . . . And even after all those moments when we felt like we were fighting for a breath of air while drowning, we always made it to the surface by the grace of God."

But Ms. Lemmon particularly celebrated "a very special moment that I'm sure every graduate here today has experienced



Alexis Lemmon delivers the dental hygiene class president's address.



*Austin Owen shares wisdom from *The Little Blue Truck*.*

at least once—the moment when you and a patient created a bond” through “a good laugh, a hug, a thank you, and maybe even some tears of happiness and gratitude. In that particular moment . . . you knew that this was exactly where you were meant to be. You knew that this was exactly what you were meant to do. You were meant to serve. So, when you come across another setback,” Ms. Lemmon concluded, “remember that you are here because of your love for serving others, because ‘service is our calling.’”

DDS class of 2018

Class of 2018 president Austin Owen offered a special thank you to Dr. Graham Stacey. “You have fought for and done more for all of us more than we’ll ever know, and we’re very grateful for that.”

He thanked his classmates “for trusting me to be your class president for the past four years.” And he had “a little bit of advice that I’d like to pass along as we consider what kind of dentists we’re going to be.”

Owen’s advice seemed to stream the message of Kent Hansen only this time through a passage from *The Little Blue Truck*, a children’s book the graduating dentist had been reading to his daughter. It featured a “friendly little blue truck that beeps a greeting to farm animals as he passes along. But a big important dump truck doesn’t have the time. Instead he honks at the animals that are in his way and angrily speeds by.” Of course, when the big important dump truck gets stuck and is freed from the muck by the little blue truck and the farm animals, it has “a change of heart about how essential it is to foster positive relationships.”

Owen expressed gratitude for “a School that is well qualified to prepare us for practice and also has encouraged us to serve as God has commissioned us to do. Don’t stop serving when you leave here,” he urged his classmates. “Take dentistry beyond the chair, invest in people, form relationships, and create stories that are worth sharing.”

Recognition

Before the conferring of degrees, School of Dentistry Dean Robert Handysides, DDS’93, presented LLUSD faculty members, Mathew Kattadiyil, BDS, MDS, MS, director, Advanced Dental Education Program in Prosthodontics, and Graham Stacey, PhD, associate dean, Admissions and Student Affairs, respectively, with the School Distinguished Research Award and School Distinguished Faculty Service Award. LLU Provost Ronald Carter, PhD, announced the conferring of titles by the Board of Trustees on LLUSD faculty members R. Leslie Arnett, DDS, MS, professor emeritus of periodontics and Yiming Li, DDS, MSD, PhD, associate dean, Research, as distinguished professor of Restorative Dentistry. Dr. Carter also presided over the presentation of the Distinguished Humanitarian Award to Irving M. Feldkamp III, DDS’71, and Pamela N. Feldkamp, BS’69 (DH); the Distinguished Service Award to alumnus Dan E. Fischer, DDS’71; and the University Alumnus of the Year to Joseph Caruso, DDS’73, MS’75, MPH.

Two faculty members were elected to membership in the Omicron Kappa Upsilon (OKU) National Dental Honor Society:



Dr. Kattadiyil is congratulated by Dr. Hart.

So Ran Kwon, DDS, MS, PhD, MS, director, Student Research, and Montry Suprono, DDS, MSD, assistant professor, Center for Dental Research and Advanced Prosthodontics.

Mathew T. Kattadiyil

To describe Dr. Kattadiyil as a prosthodontist, researcher, and educator does not do him justice. While mentoring graduate students for their thesis defenses, his interest in research

COMMENCEMENT 2017

was ignited. Over the years his own research has expanded, his publications have grown, and his standing in the global community has been enhanced by his numerous professional publications and presentations. In addition, his interest in and pursuit of research grants has resulted in collaborations for the development of a patent. Through outstanding scholarship, research contributions, and mentorship of his graduate students, he continues to serve the best interests of dentistry and patient care. In acknowledgment of his significant contributions to our academic and research communities, we are pleased to present Dr. Mathew Kattadiyil with the *School's Distinguished Research Award*.

D. Graham Stacey

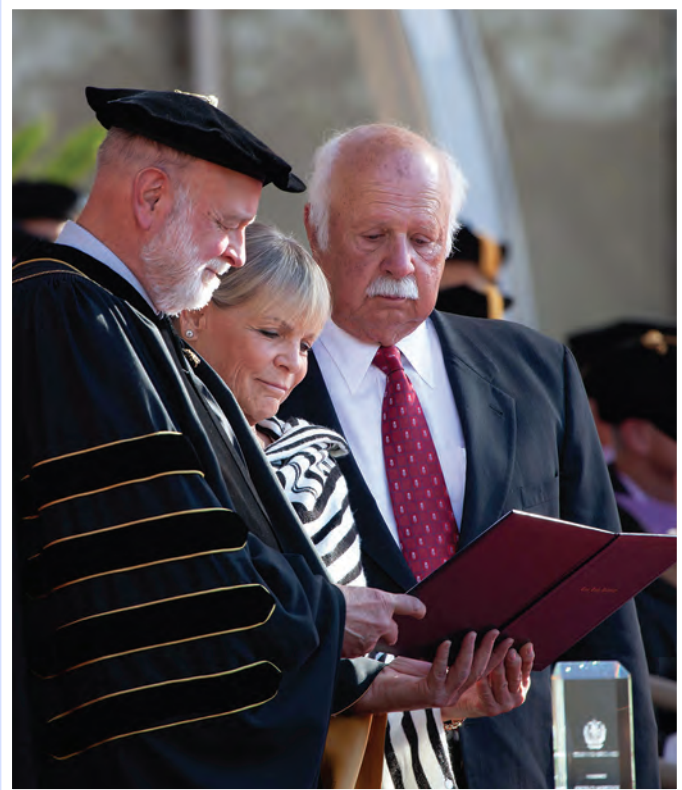
For the past ten years, Dr. Graham Stacey has focused his energies on the most prized asset of the School of Dentistry, its students. And he takes great pride in the role he has played in the matriculation and development of future professional colleagues. Dr. Stacey has generously shared his professional expertise, freely given of his time and continually discovered unconventional avenues for service that bring honor to this academic and healthcare community. He has focused his creative energies and his ingenuity on the well being of our students and in the face of ethical dilemmas has provided support and encouragement. His commitment to the spirit of Loma Linda's motto, "To Make Man Whole," reflects his consistent and unwavering support for the vision of this School and this University. And so we honor the invaluable contributions of Dr. Graham Stacey to this academic and healthcare community and present him with the *School's Distinguished Service Award*.



Dr. Stacey is congratulated by Dr. Hart and Dr. Handsides.

Irving M. (Bud) Feldkamp III and Pamela N. Feldkamp

The Loma Linda University Health Distinguished Humanitarian Award is presented to those who have made outstanding contributions to Loma Linda University Health and its various institutions and programs. Philanthropy plays an important role in creating a better and more sustainable Loma Linda University Health. It is daunting to think what the world would be like if there were no people who took it upon themselves to make a difference. Today it is our privilege to honor a couple who have made a profound difference as they have taken their humanitarian endeavors to generous new heights. The liberal philanthropic acts of Bud and Pam Feldkamp have supported a variety of initiatives not only within this community but also in ways and places far beyond the boundaries of Loma Linda University Health's enterprise. Therefore, the citation reads: "Loma Linda University Health honors Irving M. and Pamela N. Feldkamp for their generous modeling of philanthropic commitment to Loma Linda



Dr. and Mrs. Feldkamp follow the text with Dr. Hart.

University Health, for their commitment and engagement that inspires and challenges others, for their record of service to this academic healthcare and research community that reflects their intense desire to give back in order to support our ministry and mission 'to make man whole.'" We gratefully present them with the *Distinguished Humanitarian Award*.



Dr. Handysides and Dr. Hart stand with Dr. Fischer.

Dan E. Fischer

This Distinguished Service Award is presented to one who has had no official connection with Loma Linda University Health's entities, and it is awarded to someone whose public attainments and commitment to excellence have contributed to the endeavors of the church and/or they have contributed to mankind in a manner that is congruent with the mission of Loma Linda University Health. While a student at Loma Linda University School of Dentistry, the importance of clinical expertise and genuine concern for the comfort and complete oral health of one's patients was impressed upon Dr. Dan E. Fischer. These concerns have guided his priorities during a long professional career. Focusing on the development of policies and procedures that continuously improve dental health, he has contributed to sensible, ethical, state-of-the-art dentistry that has transformed the lives of countless persons globally. Today we acknowledge this pioneer in the field of dentistry. The citation reads: "Loma Linda University Health honors Dan E. Fischer, DDS, for contributions to the field of dentistry that have improved dental delivery and materials that meet customer and patient needs, for scientific investigation that has helped protect and promote and preserve oral healthcare on a global level, and for generous support of humanitarian missions around the world." We gratefully present him with the *Distinguished Service Award*.

Joseph M. Caruso

The University Alumnus of the Year Award is presented to an alumnus whose accomplishments and aims exemplify the aims and aspirations of Loma Linda University. The individual must

have given distinguished and humanitarian service or academic pursuits including peer reviewed research and/or education and have maintained spiritual commitment. Dr. Caruso has distinguished himself not only by his many professional accomplishments and successes, but also by his personal excellence and outstanding service. His dedication to bridging the gap between science and practice and to integrating the finest research with patient care and state of the art training has enhanced the health and well-being of those served by this education, research, and healthcare community. His remarkable commitment to the welfare of those educated and served here exemplifies the spirit of the University's motto, "To Make Man Whole," and reflects his consistent support of his alma mater's mission and vision. It is therefore with admiration and pride that Loma Linda University confers on Joseph M. Caruso the title *University Alumnus of the Year*.

Following the recognition of Dr. Caruso, two School of Dentistry faculty members were asked to stand as the upgrade of their academic ranks was announced. R. Leslie Arnett, DDS, MS, periodontist, was voted by the LLU Board of Trustees to



Dr. Caruso is congratulated by his successor.

emeritus professor status, and Yiming Li, DDS, MSD, PhD, associate dean for Research, was pronounced distinguished professor of restorative dentistry.

The next four pages contain a sampling of students who graduated from LLUSD programs at the School's 2018 commencement.

Dental Hygiene



Dean Handysides shares the triumph of Brett McKean, BS'18 (DH).



Michael Ewert, DDS'84 celebrates with his daughter-in-law Taylor Ewert, BS'18 (DH)



Meagan Miller, DDS'15, and Alaine Miller, BS'18 (DH), share the joy with Dean Handysides.



BS'18 (DH) graduates (L-R): Cynthia Uribe, Alyssa Wasylucha, Lauren White, and Sierra Wille anticipate their diplomas.



Emma Tello, BS'18 (DH), celebrates a major milestone.

Dentistry



Kiatkachorn Ratanatharathorn, DDS'18, stands with his brother Kongkiat (Kenny) Ratanatharathorn, DDS'07, and Dean Handysides.



Ashley Sumilat, DDS'18, hugs her father James Sumilat, DDS'90.



Stephanie Sayegh, DDS'18 (with teaching assistantship in Dental Anesthesia), with her father Tony Sayegh, DDS'83, and her sister Natalie Sayegh, DDS'16.



Cameron Loeffler, DDS'18, with his father Michael Loeffler, DDS'88, and his brother Nathan Loeffler, DDS'15.



Kathryn Anderson DDS'18 is bracketed by her brother Mark Anderson, DDS'15, and Dean Handysides.



Janell Haylock DDS'18, receives her diploma from Dean Handysides.

Dentistry



Dean Handysides stands with George Parker, DDS'18.



Alyssa DeWinter, DDS'18, and Rene DeWinter, DDS'18, pose with their diplomas and with Dean Handysides.

Dentistry (IDP)



Lina Aljanabi, DDS'18 (IDP), and her husband, Haider Anwar, DDS'17 (IDP), stand between Mark Estey, DDS'98, assistant dean, Academic Affairs, and Dean Handysides.



Sam Jameel, DDS'18 (IDP) is bracketed by, Dr. Estey and Dean Handysides.

Graduate Education



Seyed Aliakbar Vahdati, DDS, MSD'18 (endodontics), and his wife Hanieh Hassani, DDS'15 (IDP), MS'17 (pediatric dentistry) stand with Dean Handysides and Tory Silvestrin, DDS, MSD, MSHPE, program director, Advanced Dental Education Program in Endodontics.



Yazeed Alqarni, BDS, holds his certificate (implant dentistry) between Dean Handysides and Jaime Lozada, DDS, program director, Advanced Education Program in Implant Dentistry.



Yvette Carrillo, DDS'15, holds her MS (periodontics) diploma with Erik Sahl, DDS'06, MSD, program director, Advanced Dental Education Program in Periodontics and her father, Mario Samaniego, DDS'81.



Ryan Becker, DDS'15, receives his certificate (prosthodontics) from Mathew Kattadiyil, BDS, MDS, MS, program director, Advanced Dental Education Program in Prosthodontics, and Dean Handsides.



Alvin Sitompul, DDS'13, holds his certificate (dental anesthesia) accompanied by his wife Linda Ngo, DDS, and Larry Trapp, DDS, MS, program director, Advanced Dental Education Program in Dental Anesthesiology.



Roya Mahmoodi, DDS, holds her MSD (pediatric dentistry) diploma with Bonnie Nelson, DDS'88, chair, Department of Pediatric Dentistry, and Dean Handsides.



Luiza Portnoff, DDS'14, holds her certificate (OMFS) bookended by Jayini Thakker, DDS, MD, program director, Advanced Dental Education Program in Oral and Maxillofacial Surgery and Dean Handsides.



Theresa Baldwin, DDS'16, receives her MS (orthodontics) diploma from Joseph Caruso, DDS'73, MS'75, MPH, associate dean, Strategic Initiatives and Faculty Practices.

LLUSD officers commissioned and promoted



L-R: Ross Emerick, DDS'18, Captain, US Army; Dustin Davis, DDS'18, Captain, US Army; Won Kyung Yang, DDS'18, Captain, US Army; Rene DeWenter, DDS'18, Lieutenant, US Navy; Amy Weis, DDS'18, Lieutenant, US Navy; Renee Smith, DDS'18, Captain, US Air Force; Dr. Clyde Roggenkamp; Dr. Gary Golden; Elizabeth Mauro, DDS'18, Captain, US Air Force; Dr. Leslie Arnett

Seven graduating LLUSD dental students participated in the Sunday morning, May 27, 2018, Commissioning Ceremony conducted by Richard E. Chinnock, MD, Captain MC USNR (retired) at the Randall Amphitheater. Dr. Chinnock provided opening remarks and administered the Oath of Office and Promotion to a total of eleven officer candidates that included four from the School of Medicine. Gary Golden, DDS'76, assistant professor, Division of General Dentistry, Colonel, USAF (Retired), offered the benediction and was joined in support of the graduating dental students by Clyde Roggenkamp, DDS'70, MSD, MPH, associate professor, Division of General Dentistry, Lt Colonel, US Air Force (Retired), and Leslie Arnett, DDS, MS'68, professor, Department of Periodontics, US Navy Lieutenant (Retired).

The audience of family and friends joined the newly commissioned and promoted officers in singing "God Bless America."

Additional 2018 officer commissioning photos are available at: <https://llusd.shutterstock.com/pictures/20576>

Dental hygiene students pinned

Forty class of 2018 graduating dental hygiene students participated in the Department of Dental Hygiene's annual pinning ceremony presided over by Kris Marshall, BS (DH), MA, chair, Department of Dental Hygiene, Friday evening, May 25, at the Loma Linda Campus Hill SDA Church. Each graduating dental hygiene student was presented with a white coat, a pin, and a rose. Sixteen awards were distributed among 21 different members of the 2018 graduating class (see below).



The dental hygiene class of 2018 assembled at the Loma Linda Hill Church for the Dental Hygiene Department's annual Pinning Ceremony.

Dental hygiene class of 2018 student awards

American Association of Public Health Dentistry
Lauren White

Amy Feldkamp-Jacobson Scholarship
Sierra Willie

Bates Award
Emily Thornton

CDHA California Dental Hygienists' Association
Mitra Nikpour

Clinician's Award
Hailey Hofmann

Colgate STAR Award
Deanna Sweiss

Dean's Award
Alexis Lemmon

Joni Stephens' Preventive Dentistry Award for Research
**Rachelle Andra, Teresita Lopez, Brett McKean,
Mohammed Shaikh, Hyun Sung**

Klooster Humanitarian Award
Emma Tello

Middleton Award
Brianna Melgar

Mitchell Award
Alexis Lemmon

NASDAD Award
Sarah Masacek, Deanna Sweiss

Service Learning Award
Taylor Bray, Bonnie Smith

Sigma Phi Alpha Award
**Ashton Izydorek, Nicole Mack, Brianna Melgar,
Guada Lund**

Tri-County Dental Hygienist's Society Award
Mitra Nikpour

Western Society of Periodontology Award
Lorena Perez

ALUMNI STUD

home

Thursday, February 28, 2019

Scientific Sessions

Implant Dentistry
Operative Dentistry
Hands-on Workshops

Student Research Presentations

Friday, March 1, 2019

Scientific Sessions

- Pediatric Dentistry
- Endodontics
- Hands-on Workshops
- Prosthodontics
- Periodontics

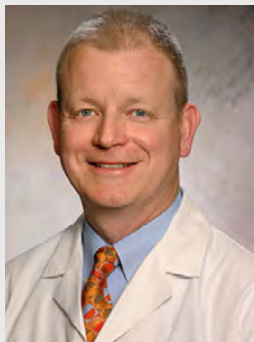
Student Research Presentations

60th Anniversary Celebration of the Dental Hygiene Program

School of Dentistry Reception

Practice Opportunity Networking with Students

Thursday, February 28, 2019



Gordon M. Rick Oral Cancer Lectureship

Differential Diagnosis of Oral Mucosal Lesions: Can you tell the difference between reactive, premalignant, and cancer?

Registration: 8:30 a.m. | Lecture: 9:00 a.m. - 4:30 p.m.

Mark Lingen, DDS, PHD, FRACPATH
Professor, Department of Pathology
Scientific Director, Human Tissue Resource Center
The University of Chicago

Synopsis

Approximately 10% of all dental patients have some type of oral mucosal abnormality. How do you differentiate the good, the bad, and the ugly?!? Although the majority of oral lesions do not carry significant morbidity, the clinician must be able to successfully differentiate the benign entities from more serious conditions of the region.

Objectives

The purpose of this talk will be to

- review common white, red, and ulcerated lesions of the oral cavity.
- discuss the necessary techniques for performing a comprehensive oral exam.
- review the currently available adjunctive screening devices and introduce developing technologies that allow for the molecular diagnosis of premalignant lesions.
- present the new American Dental Association Clinical Guideline recommendations for oral cancer screening.
- discuss the current chemopreventive initiatives under investigation.
- emphasize the role of dental professionals in early detection and chemoprevention.

DENT CONVENTION

coming

Friday, March 1, 2019



Goal Directed Orthodontics

Registration: 8:30 a.m.

Lecture: 9:00 a.m. - 4:30 p.m.

Robert E. Williams, DDS, MS
Member of ADA, AAO, PCSO, and
Roth Williams International Society
of Orthodontists

Synopsis

Goal directed orthodontics could be expanded to any field of dentistry or to any field where the objective is to solve problems. How do we solve these problems? We must know what is wrong. To solve the problem we need a GPS. We must know exactly where we are starting and where we are going. This requires that we have as much information as possible to understand the problem. Now we know exactly our starting point. Next we must know where we are going and what steps we will take to solve the problem and arrive at our desired goal.

Having complete records should not be a problem, especially today with so many advances in diagnostic records such as CBCT and photographic techniques. The dentist must understand that treating a patient is more than aligning the teeth and getting the patient to bite in Class I.

Cases will illustrate the necessary records and steps in diagnosis and treatment to achieve the goals.

Objectives

- Understand how orthodontic treatment effects facial esthetics, dental esthetics, TMJ muscles of mastication, periodontium, functional occlusion airway, long-term stable results and healthy gnathic systems, and solves the patient's main concerns.
- Understand that to diagnose the dentist must have ideal or optimal treatment goals for each area that treatment effects.
- Understand that the dentist must have measurable criteria for objective goals.
- Emphasize the role of dental professionals in early detection and chemoprevention

Sunday, March 3, 2019



The Phantom of the Opera-tory

Registration: 8:30 a.m.

Lecture: 9:00 a.m. - 4:30 p.m.

Thomas A. Viola, RPh, CCP
Board-certified Pharmacist
Founder of "Pharmacology
Declassified"

Synopsis

The challenge faced by all clinicians today is to provide safe and effective dental treatment to our medically complex patients. Thus, as dental professionals, we must be equally aware of the medical considerations of agents commonly used in the practice of dentistry, as of the dental considerations for the medications frequently prescribed to treat multiple systemic diseases.

This program will present an overview of dental pharmacology in a format that makes it applicable, practical, and useful for all members of the team. Using case scenarios, special emphasis will be given to drugs administered or prescribed in dental practice, as well as to medications which actions, effects, or interactions with other drugs may impact dental therapy.

Objectives

Upon successful completion of this program, participants will be able to

- describe the pharmacology of analgesics and appropriate prescribing practices for the management of acute dental pain.
- discuss local anesthetic agents with respect to their mechanism of action, adverse effects, and contraindications.
- examine the pharmacology of anti-infective agents commonly used in dentistry and their clinical considerations.
- discuss the prescription medications most frequently encountered on a patient's medical history, including their potential impact on dental therapy and patient care planning.

To register call LLUSD Continuing Education at (909) 558-4685 or visit dentistry.llu.edu

STUDENT AWARDS

Student Achievement Awards 2018

During the School of Dentistry's annual senior recognition events, 55 awards were presented and recognized. The awards and their recipients are listed below.

Academy of Dentistry International Student Servant Leadership Award

Kyle Leis, DDS'18

Academy of Operative Dentistry Award

Minna Chun, DDS'18

Academy of Osseointegration

Carlisle Salcedo, DDS'18

ADA Foundation Colgate Student Research Recognition Award

Christina Chi, DDS'18

Alpha Omega Certificate of Academic Achievement

Paul Jung, DDS'18

Alumni Association Award

Trina Chung, DDS'18

American Academy of Gold Foil Operators

Safina Waljee, DDS'18

American Academy of Implant Dentistry

Kylin Chen, DDS'18

American Academy of Oral and Maxillofacial Pathology Award

Paul Jung, DDS'18

American Academy of Oral and Maxillofacial Radiology Award

Rene DeWenter, DDS'18

American Academy of Oral Medicine Award

Adrien Charles-Marcel, DDS'18

American Academy of Orofacial Pain Award

Lynda Lee, DDS'18

American Academy of Pediatric Dentistry

Ross Emerick, DDS'18

American Academy of Periodontology

Safina Waljee, DDS'18

American Association of Endodontists

Minna Chun, DDS'18

American Association of Oral and Maxillofacial Surgeons Award

Jeffrey Anderson, DDS'18

American Association of Orthodontists Award

Jamie Kim, DDS'18

American College of Dentists, SoCal Section

Morgan Steely, DDS'18

American College of Prosthodontists Award

Kylin Chen, DDS'18

American Dental Society of Anesthesiology Horace Wells Award

Michael Weis, DDS'18

American Student Dental Association

Douglas Gammenthaler, DDS'18

Boyko Award for Christ-like Service

Elaine Bersaba, DDS'18

Brian D. Stone Memorial Award

Amy Weis, DDS'18

California Association of Oral and Maxillofacial Surgeons

Alyssa DeWenter, DDS'18

California Dental Association Senior Award

Vidit Mehta, DDS'18

CDA Foundation Research Table Clinic Scholarships (DDS)

1st Place: Trent Gillard, DDS'20, Alexander Zaykov, DDS'19, Christina Chi, DDS'18

2nd Place: Chanica Veranunt, DDS'19; Phillip Ha, DDS'19; Nadia Barakat, DDS'19

3rd Place: Kristen Schwieterman, DDS'19; Claudie Pascal, DDS'19; Jenifer Jesson, DDS'19; Anna Chavez, DDS'19; Brian Choi, DDS'18, Anthony Pham, DDS'19; Rodrigo Robles Cardenas, DDS'18, Jae Chung, DDS'19; Reza Parhizkar, DDS'18

Honorable Mention: Kristina Fernandez, DDS'19; Eunice Jong, DDS'19

CDA Foundation Research Table Clinic Scholarships (DH)

1st Place: Tery Lopez, BS'18 (DH); Rachele Andra, BS'18 (DH); Brett McKean, BS'18 (DH); Mohammed Shaikh, BS'18 (DJ); Justin Sung, BS'18 (DH)

2nd Place: Taylor Ewert, BS'18 (DH); Brianna Melgar, BS'18 (DH); Lauren White, BS'18 (DH); Hailey Hofmann, BS'18 (DH)

Delta Dental Student Leadership Award

Kyle Leis, DDS'18

Division of General Dentistry Clinic Awards – DDS'18

Kylin Chen, Brian Choi, Kevin Chung, Steven Debulgado, Abigail Duong, Paul Jung, Morgan Steely, Michael Weis

Division of General Dentistry Clinic Awards – DDS'18 (IDP)

Sam Jameel, Meena Adami

Fixed Prosthodontics Award

Katimarie Ralston, DDS'18

International College of Dentists Student Leadership Award

Alison Perez, DDS'18

International College of Dentists Student Humanitarian Award

Kathleen Aguilar, DDS'18

International Congress of Oral Implantologists' Pre-doctoral Student Achievement Award

Paul Jung, DDS'18

LLU Center for Dental Research Basic Science Award (D2)

Andrew Yoon, DDS'20

LLU IDP Fixed Prosthodontics Award

Michele Ferreira de Souza, DDS'18 (IDP)

LLU IDP Removable Prosthodontics Award

Jina Mariano Martinez, DDS'18 (IDP)

National Association of Seventh-day Adventist Dentists

Elaine Bersaba, DDS'18, Austin Owen, DDS'18, Sarah Masacek, BS'18 (DH), Deanna Sweiss, BS'18 (DH)

Oesterling-Wical Removable Prosthodontics Award

Elliot Kim, DDS'18

Omicron Kappa Upsilon (OKU) Awards – DDS'18

Minna Chun, Rene DeWenter, Ross Emerick, Paul Jung, Jamie Kim, Allison Lee, Lidya Lee, Alison Perez, Katimarie Ralston, Safina Waljee, Michael Weis, Meena Adami DDS'18 (IDP), Sam Jameel DDS'18 (IDP)

OKU, William S. Kramer Award for Excellence (D3)

Michael Chan, DDS'19

Pierre Fauchard Academy Award

Ross Emerick, DDS'18

Pierre Fauchard Academy Foundation Scholarship (D3)

Claudie Pascal, DDS'19

President's Award

Alison Perez, DDS'18

Prince Award

Austin Owen, DDS'18

Service Learning Awards (DDS'18)

Kathleen Aguilar, Lidya Lee, Christopher Lopes, Ashlee Sumilat

Southern California Academy of Oral Pathology Award

Katimarie Ralston, DDS'18

Southern California Society of Dentistry for Children Award

Austin Owen, DDS'18

Terry Tanaka Student Humanitarian Award (D3)

Kyle Leis, DDS'18

Tri County Dental Society Certificate of Recognition

Mahelet Negash, DDS'18

Western Society of Periodontology Award

John Hegazin, DDS'18

Wil Alexander Whole Person Care Award

Steven Debulgado, DDS'18

Wilfred A. Nation Award

Milton Vega, DDS'18

Honors Program Recognition

Graduates recognized for Elective Program completion

Meena Adami, DDS'18 (IDP)

Pediatric Dentistry

Christina Chi, DDS'18

Dental Education

Minna Chun, DDS'18

Endodontics

Alyssa DeWenter, DDS'18

Oral and Maxillofacial Surgery

Kylin Chen, DDS'18

Implant Dentistry

Jacklyn Ibrahim, DDS'18

Dental Education

Jamie Kim, DDS'18

Orthodontics & Dentofacial Orthopedics

Jina Mariano Martinez, DDS'18 (IDP)

Prosthodontics

Elizabeth Mauro, DDS'18

Orthodontics & Dentofacial Orthopedics

Servants of science and service

The improbable journey of Yiming Li and Wu Zhang

It was individual rights, open markets, the rule of law, and break-apart empiricism that combined to enable the quality of life the developed world enjoys today.

At Loma Linda University School of Dentistry, the empirical component is provided by its Center for Dental Research (CDR) where “science,” as its director and associate dean for Research, Yiming Li, DDS, MSD, PhD, once remarked, “is the servant of ‘service.’”

It is a congenial irony that the leader of empirical research at the School of Dentistry was born and raised in China and as a very young man was directed toward the life of a farmer. And it is unlikely that Dr. Li would be here today had it not been for a series of improbable and incongruous events.

One key episode that made possible the presence of Dr. Li and his illustrious wife, Wu Zhang, MD, professor, Dental Education Services and director, Research Services, and Sterilization Assurance Service, is that the administration of famously anti-communist President Richard Nixon initiated in 1971 and 1972 conversations with then communist Chinese leader Mao Zedong that eventuated in a thaw between the belligerents. The ensuing rapprochement enabled Dr. Li, a decade later, to pursue graduate studies at Indiana University, beginning in 1982, where he earned an MSD in dental materials and operative dentistry and a PhD in preventive dentistry and toxicology, and where Dr. Zhang researched the effects of *in vitro* and *in situ* demineralization on models of human enamel and dentin and studied the pharmacological effects of fluoride on medically compromised animals and patients.

Raised in revolution

Every accomplishment has a gestation period, some more painful than others. Yiming Li was born a couple of years after China’s revolutionary victors took over the country, the oldest son with four siblings that included an older sister, a younger brother, and two younger sisters. The mother of his oldest sister (a half sister, actually) died when the sister was born.

His father then married Yiming’s mother-to-be during the civil war between nationalists and communists. In 1949, four years after World War II, the communist faction prevailed and the People’s Republic of China was established. Yiming’s parents were living in Shanghai when the nationalists retreated. Most of the Chinese people had hoped for peace

in 1945 when Japan surrendered, but the civil war erupted almost immediately, and that generation suffered profoundly.

Yiming’s father was born in a city about 200 kilometers from Shanghai and educated as a mechanical engineer. He found employment in Shanghai but never had stable work until the civil war concluded. Just before the end of the civil war, when the communist government took over Shanghai, his parents fled to the countryside where his mother’s adoptive parents lived on a small farm. His mother used to tell him that during the evacuation they lost everything, even their chopsticks.

Yiming’s mother’s childhood during the time before and during WWII and the revolution that followed was even worse than his father’s. She was 34 when Yiming was born. Because of their impoverished circumstance, the parents of Yiming’s mother had to give up three of their four children for some sort of adoption. Consequently, Yiming’s maternal grandfather and grandmother kept only one son. “Fortunately for my mother,” he says, “her adoptive father—my maternal grandfather—was a great man.” Originally, they accepted his mother with the intent of marrying her to one of their sons, a practice that once was very common in China. A young girl would be adopted and raised by a family with the intention of marrying her to an adoptive brother. Yiming says his mother “was always very appreciative of her adoptive father because he did not treat her according to custom. He allowed her to marry my father who was from the city and not related to the family at all.” Meanwhile, his adopted maternal grandparents had five children. “So, I had four uncles and one aunt from my mother’s adoptive family.”



Dr. Wu Zhang and Dr. Yiming Li the day after their nuptials.

"Before the family fled Shanghai," Yiming learned later, "my father was a mechanical engineer and my mother was a textile factory worker. Her adoptive grandparents accepted the refugee couple on their modest farm." All of Yiming's mother's adoptive (step) sisters and brothers were welcoming and helpful, he says. And his mother's adoptive father was not only a farmer but also a chef. "My mother acquired those cooking skills, some of which she passed to me," he says with amusement. This enabled Yiming to impress Wu, his wife to be, early in their acquaintance; "I cooked everything for her on her first visit to my home," he recalls. So Yiming was his mother's first child, born on her adoptive parents' farm when they were in their poorest condition.

Yiming's father had multiple gifts. "He walked around in villages sharpening knives and scissors for people to support the family," Dr. Li recalls. "He did all sorts of work, anything he could find; meanwhile, most people were destitute. I really admire my father. He tried to do a lot of things. My father was a really, really great man," he adds, his voice becoming husky.

A few years later, Yiming's father designed and built a semi-automatic, sock knitting machine. "I saw that; I remember it," he enthuses. "The operator would turn a handle and the machine would knit socks." He imitates the staccato clatter of the machine. "My father was very capable, and, beyond that, he was certainly a great man. He never punished me; he always reasoned with me as far as I can remember."

In the context of discussing his relatives' religious beliefs, Dr. Li says, "As a matter of fact, my wife Wu's maternal grandmother was a Christian. She and I really got along. I told Wu that her grandmother understood me the best." He laughs. Wu Zhang, Yiming's wife of 37 years, agrees that her grandmother, who lived until 1998 (92 years), was very, very nice," adding that her family's Christian beliefs began with her. "My grandmother and mother were very sincere Christians." According to Dr. Zhang, her grandmother was widowed in her mid twenties when the Japanese killed her husband, Dr. Zhang's grandfather, during the Second World War.

Dr. Li's earliest memory of his father's real business concerned a tea house. "It is for certain that my father's talents were not fully realized; and, in fact, in my opinion he was not a very good businessman," he laughs, noting that his father let customers get away with IOUs or allowed them to run up tabs that they never paid. "After awhile, my father could not sustain the business and closed the teahouse. It was hard. My father and mother had to do everything. I wasn't old enough to help."

Dr. Li believes that his education was quite good. His father had financed grade school and high school education for his five children. When the universities were closed during the Cultural Revolution, Yiming's dream of becoming an engineer or doctor appeared to be doomed. He worked on a vegetable farm. He



Jason Li with his mother and father in 1984

learned gardening, the use of farm machinery, the raising of pigs, and the navigation of boats. He is convinced that this difficult experience taught him a lot about people and society as he worked the land, as well as a variety of skills that included electrical work, plumbing, and boat piloting. While working on the farm, reading provided Yiming a hobby. He would walk about three miles after work to the town library, but he convinced the local village chief to provide a nearby room and funding for a small library that he operated until he left for university education.

Daughter of revolution

Wu's youth in many ways paralleled Yiming's. "During WWII, because of the chaos, disease, and Japanese bombing of Shanghai," she explains, "both my parents' families not only lost everything, but also lost loved ones. It took decades to recover from this devastation."

Growing up in Shanghai, Dr. Zhang says, "was easy, and our family had access to every convenience." From second grade, she recalls, reading was her favorite hobby, adding that there was no TV or iPhone to compete with books. "I would try to find all the books I could to read; that was very attractive to me." These included some novels written in the West and some, she says, translated into Chinese from other foreign languages. The schools she attended had libraries, and there were bookstores from which she could rent or purchase books.

But during China's Cultural Revolution, all the schools were closed. Wu was taken at the age of seventeen with other students to a farm on Chongming Island, between the sea and the mouth of the Yantze River. She recalls being assigned to that farm. "There were no buildings for us, so the farmers made buildings out of bamboo for all the students. We lived in that difficult situation for about two years, then moved to a better brick house."



The young scholar at Indiana University

"It was very harsh physically," she recalls, living in unheated housing created with bamboo and hay, and planting rice barefoot in early spring. "This was the first time I realized," she says, "how harsh life can be. After going through many difficulties, I learned how to face the challenges in my life. And looking back, it's very rewarding. I am no longer fragile; I am a survivor," she laughs. "There were no classes," she recalls. "During the day we learned how to grow crops on the farm—boys and girls learning how to adapt and work as farmers. In the evenings most of my friends and I kept learning from text books." It was repetitive labor that Dr. Zhang says left her much opportunity to think. "There was some fun," she insists, "during stormy weather when we could stay in and read."

In the fifth year of her farm experience, a position opened at the Chinese Academy of Sciences, and noting her interest in science, the Academy selected her for the position. "I was very lucky," she acknowledges. "In our generation we had a lot of talented students who had no such opportunity." She subsequently also had the opportunity to pursue the study of medicine.



Dr. Li and Dr. Zhang celebrate his doctorate from Indiana University.

After the universities reopened, Yiming passed admission examinations and was accepted to take dentistry. His education at the College of Stomatology, Shanghai Second Medical University, now Jiaotong University, Shanghai, was tuition-free, but students were housed eight to a room stacked with double decker beds.

Collaboration

Yiming completed dentistry in 1977, in a class of 104 graduates, and was one of four selected from his class to remain as a member of the faculty. Although the school's administration had slated Dr. Li for a position among them, after considerable pestering they permitted him to continue his education as a prosthodontics resident at Shanghai Ninth People's Hospital, but he was urged to focus on dental materials research. He remained there for five years, teaching, practicing dentistry, and conducting research.

The doctors Li and Zhang met in Shanghai in 1978, not long after she graduated with medical credentials in the field of public health from Norman Bethune College of Medicine, now part of Jilin University, China, and while she was working as a researcher in the Chinese Academy of Science. "Our relatives introduced us," Dr. Zhang recalls. When asked if she was looking for a high earning professional husband, she laughed. "Actually, in China at that time everybody in the same generation earned basically the same pay."

The two doctors dated for three years in Shanghai and married on May 1, 1981. At the time, Dr. Zhang recalls, the acquisition of assigned housing was difficult but relatively easier for married women. By the time they wed, she says, Dr. Li had just passed a series of intensely rigorous tests—university, city, and national—administered over a three-month period in 1981 that earned him a scholarship for the opportunity to engage in additional study outside the country.

Nineteen days after the couple was married, Dr. Li left for another city in China to do eight months of preparatory study in English with teachers from UCLA. He returned to his new bride in January of 1982 and, with the recommendation of his mentor, the associate dean for Research, Lichong Qiu, DDS, a graduate of Northwestern University School of Dentistry in Chicago, left seven months later, for Indiana University and a master's degree program in dental materials mentored by Dr. Ralph Phillips, MS, D.Sc., author of Skinner's *Science of Dental Materials*, and Melvin Lund, DMD, chair of operative dentistry at Indiana University, a pioneering LLUSD faculty member. Dr. Li treasures a gift of an autographed textbook from Dr. Phillips in which his mentor wrote, "No graduate student of mine has ever matched your capability, enthusiasm, and motivation for this field. You have demonstrated an unusual talent for research, and your record speaks for itself."



Dean Charles Goodacre welcomed Dr. Zhang and Dr. Li to LLUSD.

Dr. Li returned to China, MSD degree in hand, in the summer of 1984 to meet his 18-month-old son, Jason, for the first time and to spend a couple of months with his family before returning to Indiana to complete a doctorate in dental sciences awarded him in 1987. His PhD project, under the mentorship of George Stookey, PhD, generated nine articles, including seven published prior to his graduation, among which two were translated into Portuguese and Spanish. He was offered a position and remained on the faculty of Indiana University. Both Dr. Phillips and Dr. Stookey served as associate deans for research and were designated distinguished professors at Indiana University School of Dentistry. “They are great mentors to me,” Dr. Li says, “they are also great gentlemen; I am very blessed to have been their student and colleague.”

During his 15 years at Indiana University, Dr. Li held appointments that included associate professor in the School of Dentistry and in the School of Medicine, director of the Cell Culture Research Laboratory, director of the Electron Microscopy/Confocal Microscope Facility, and director of the Biocompatibility Core Facility of the Indiana University Biomechanics and Biomaterials Research Center.

When the relaxation of China’s travel restrictions expanded, Dr. Zhang had the opportunity a year later to join her husband in Indiana. “I came to Indiana as a visiting scholar and worked in a research lab at the medical school. My previous experiences in research helped me to quickly adapt to new projects,” she explains. “For 12 years I had opportunities to conduct many dental research projects with colleagues at its medical school and dental school that resulted in more than 50 publications.”

Recruited to LLUSD

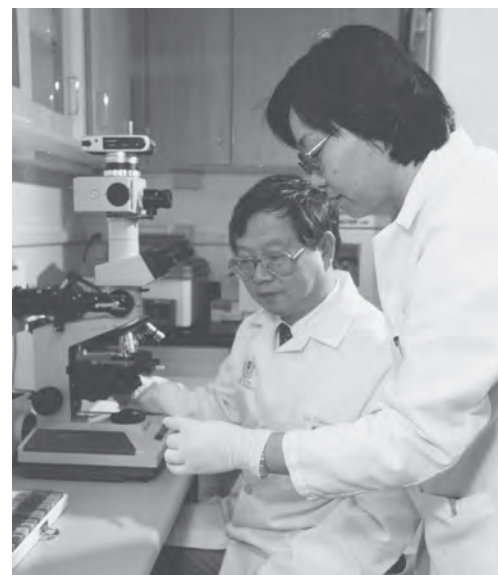
At Indiana University, Charles Goodacre, DDS’71, MSD, who was earning his advanced degree there in prosthodontics (1971-1974), made the fortuitous friendship of the doctors Li and Zhang. “I don’t remember exactly when I became acquainted with Yiming,

but I instantly recognized him and Wu as being in a class of their own,” says Charles Goodacre, DDS’71, MSD, distinguished professor of prosthodontics. “They are both individuals with exceptional personal and professional characteristics that embody true professionals.” After Dr. Goodacre became LLUSD dean beginning in 1994, he recruited Dr. Li in 1997 to be a professor and in 1999 associate director of the School of Dentistry’s newly named Center for Dental Research. Dr. Zhang was appointed research associate at the Center and assistant professor the following year.

In 2002 Dr. Li was promoted to become director of LLUSD’s Clinical Research Program. Two years later (2004), he was appointed director of the Center for Dental Research. In his leadership capacity, Dr. Li emphasized the essential question, “Is this material/device safe? Is it compatible with human tissue, blood, and/or saliva?”

His extensive scientific publications produced with colleagues that include his wife, and extensive lecturing in Asia, Australia, Canada, Europe, South America, and the United States achieved prominence that resulted in Dr. Li’s appointment as chair for the American National Standard/American Dental Association Specification for Biological Evaluation of Materials. This prestigious committee developed the first major revision of Specification No. 41—a 202-page report with Dr. Li as lead author that provides guidelines approved in 2005 for an American National Standard that determines biocompatibility for all dental materials, devices, and equipment.

Dr. Li was nominated in 2006 to serve a 3½-year term on the US Food and Drug Administration’s Dental Products Panel as its



Dr. Li and Dr. Zhang perform research in the School of Dentistry’s early lab.



Dr. Li and Dr. Zhang celebrate their American citizenship acquired in 1997.

toxicology expert, addressing safety issues that took him to FDA hearings in Washington, DC, where he reveled in the democratic nature of his adopted country and the transparent nature of the applications for approval of dental materials, devices, or drugs. "Everything is transparent," says Dr. Li, "and the panel members' votes are independent. We don't even discuss the issue with other panel members during breaks."

In 2007 Dr. Li was appointed chair of the newly formed committee for the national standards for tooth bleaching materials and convener of an international standards committee on tooth bleaching materials. He also has collaborated with nine laboratories around the world to devise methods for analyzing fluoride in biological samples; and the CDR is studying, among other areas, tooth bleaching, gingival health, oral microbes, restorative materials, and oral odor. LLUSD CDR has been dominant in research regarding tooth bleaching and color measurement. Dr. Li has been quoted by big media in answer to the question, Can teeth (in this case the teeth of a beautiful model) be made too white? His reply: "It can. A general guideline is that the teeth should not be whiter than the whites of the individual's eyes."

In recent years, external research funding generated for the School has exceeded \$2.0 million annually. "This would not be possible," says Dr. Li, "without everyone's diligent efforts and the support from the School. I am honored to have the opportunity to serve on this prestigious faculty."

Perhaps the most tangible testimony to his dedicated efforts is the 5,600 square foot, state of the art research facility in Chan Shun Pavilion that opened in February 2015 and now houses the Center for Dental Research. "Research is a key component of our calling, as it enhances the prospect of wholeness," Dr. Li stated at the grand opening, adding "how fortunate" he was "to be part of the founding team that worked with Carlos Muñoz, DDS, MSD,

the first director of the Center," and "to have a capable and willing team who for all these years always makes diligent efforts to ensure the highest quality and timely completion of projects."

Associate dean for research

Effective February 3, 2014, the Loma Linda University Board of Trustees approved Dr. Li's appointment as LLUSD associate dean for research, "a well-deserved appointment that reflects the elevated stature Dr. Li has achieved in Loma Linda University and the broader academic dental community," said Dean Ronald Dailey, PhD.

Dr. Li has authored 141 articles and book chapters and 193 abstracts. In addition, he has presented 153 oral and poster presentations. He has earned grants of over \$28.7 million since coming to the United States – of which approximately \$21.6 million have come through the LLU School of Dentistry.

"Dr. Li has been an exemplary colleague, mentor, and friend to faculty and students in the School of Dentistry for the past 20 years," says Dean Robert Handysides, DDS'93. "During his tenure at Loma Linda, he has helped numerous clinical faculty become involved in research programs that have enabled them to achieve faculty rank promotions," Dr. Handysides adds. "In addition, he has helped to build the student and resident research programs to a level that has enabled LLUSD students to garner a disproportionate number of state and national awards, especially at the annual competition for student research table clinical presentations at the California Dental Association Convention."



An operatory in the new and expanded CDR.

All of this explains why Dr. Li was honored in 2014 with the Loma Linda University Distinguished Investigator Award, in 2017 with LLUSD's School Distinguished Service Award, and was designated during the School of Dentistry's 2018 commencement as distinguished professor of Restorative Dentistry.



Accompanied by then Dean Ronald Dailey and LLUH President Richard Hart, MD, DrPH, Dr. Li prepares to cut the ribbon.

Partners in science and service

When the couple first arrived in Loma Linda in 1997, Dr. Zhang says, “Yiming needed an office; I needed a laboratory.” Her first research space was a laboratory the retiring LLU microbiology professor, Leonard Bullas, PhD, had recently vacated. She worked there for a year until the University committed space for dental research in the old Loma Linda Motel where she continued her fluoride studies with faculty and students. She also began cooperating with nine other major international laboratories to establish Gold Standard methods for fluoride analysis.

It wasn’t long before Dr. Zhang recognized a need that became an opportunity. She started the School’s Sterilization Assurance Service (SAS) and Dental Unit Waterlines testing program. Dr. Zhang thought both the research and services could be managed together, thereby strengthening the overall research program. Her initiative was a significant factor in the growth of the School of Dentistry’s research activities, beyond the acquisition of essential intramural and extramural funding.

With the support of Dean Goodacre, in 1998 the school’s Sterilization Assurance Service was established and has grown to serve LLUSD alumni and many other dental professionals nationwide. Dr. Zhang expresses appreciation to Kathleen Moore, MHIS, director, Continuing Education, Alumni Association and Marketing, “the School’s office of marketing, and its alumni journal editors, who have been very helpful for many years in promoting it through the alumni journal and newsletters.”

At the end of 1996, an “ADA statement on dental unit waterlines” was published by the ADA Council on Scientific Affairs that documented the serious contamination of waterlines in dental practices (J Am Dent Assoc. 1996;127:185-189). “Not many people are aware,” Dr. Zhang says, “research has shown

that in newly installed dental unit waterlines, microbial counts can reach 200,000 CFU/mL within five days. In fact, counts as high as 10^6 CFU/mL of dental unit water have been found in untreated dental unit waterlines.” Having read the available research, Dr. Zhang was convinced. “I felt this is important as a potential public health risk, and I wanted to research it not only for the patients who directly receive contaminated water, but also for our fellow dentists who spend decades inside dental offices exposed to the risks of infection while treating patients.”

There was another niche between microbiology and dental practice to which Dr. Zhang thought the School could make a significant contribution. She collaborated with the ADA research lab for ten years to issue the first edition of ISO standard 16954 Dentistry — *Test methods for dental unit waterline biofilm treatment*, which was published in July 2015.

“In 2000 we started LLUSD’s Dental Unit Waterline Testing Service,” Dr. Zhang recalls. Subsequently, the service has provided waterline testing for dental offices in 43 states that include those of universities, large dental organizations, and many dental offices. At the same time, she collaborated with Joni Stephens, RDH, EdS, Professor Emeritus and former chair, Dental Hygiene, LLUSD, Carlos Muñoz-Viveros, DDS, MSD, professor, LLUSD, and James Kettering, PhD, professor, microbiology, LLUMC, in the exploration of ways to evaluate and solve dental waterline contamination problems even as the CDR lab continues to monitor waterline quality for LLUSD. “I feel happy that LLUSD is able to provide clean water for patient treatment that is safe for everyone in all our clinics,” she says with a smile. “We also provide free consultation in the effort to help other dental offices solve dental waterline problems.”

In 2012 Loma Linda University recognized the contributions of Dr. Zhang with its Distinguished Research Award—well deserved given her contributions to so many studies involving students, visiting scholars, and faculty ranging from tooth whitening to oral odor, from antimicrobial activity to laser treatment of human teeth. She sums up the laboratory’s productivity: “In the past 21 years, the lab has conducted over 600 funded projects.”

“In the early years at Loma Linda, Yiming and I focused in different fields,” she says. But then, even though his work was more clinical and hers more laboratory centered, they began collaborating. And by the middle of 2018 the couple had co-authored 126 scientific publications in peer reviewed journals. At the time of this interview, Dr. Zhang had 186 publications to her credit—70 articles and 116 abstracts.

Dr. Yiming Li and Dr. Wu Zhang became American citizens in 1997, and what a powerful argument their contributions to the common good have made not only for *e pluribus unum* but for the School of Dentistry’s motto, “Service is our calling.”



LOMA LINDA UNIVERSITY

School of Dentistry



Dental Unit Waterline Testing and Sterilization Assurance Service

Dental Unit Waterlines Testing Service (DUWLs)

has been in operation since 2000. We evaluate microbial contamination of DUWLs and are actively involved in research on DUWLs biofilm removal and treatment methods. Numerous dental offices, universities, veterans hospitals, medical/dental centers, and over 43 states, and Canada use this service for monitoring the quality of their DUWLs.

What are the advantages of using LLU School of Dentistry's DUWLs service?

- The Standard Method 9215D (membrane filter method) of the American Public Health Association (APHA) is used to examine microbial contamination in DUWLs.
- Multiple dilutions to detect heterotrophic plate count (HPC) bacteria counts up to 20,000 CFU/mL
- 19 years' experience
- Free consultations by experienced staff
- All-inclusive test kit containing sterile sample vials, ice packs, and detailed instructions in insulated test packages
- Test reports sent after the seven-day incubation
- Local customers may deliver samples directly to our research laboratory.

Sterilization Assurance Service (SAS)

was established in 1998. SAS provides biological monitoring of sterilizers for over a thousand dental clinics, community colleges, and medical/dental centers, and other institutions nationwide.

What are some of the advantages of using LLU School of Dentistry's SAS?

- 20 years of experience
- Choice of Basic, BasicPlus, and Intensive spore testing services to help you meet infection control requirements within your budget
- Return envelopes or prepaid envelopes are included based on your choice.
- Option of weekly or monthly reports with available Certificate of Participation
- Failure notification by phone or e-mail on same business day
- Class V integrators for steam sterilizer are available to order. The combined use of spore tests, and STEAMPlus Integrators provide early detection by visually confirming the performance of your sterilizers.



LOMA LINDA
UNIVERSITY
School of Dentistry

Dental Unit Waterline Testing and Sterilization Assurance Service Order Form

Date _____
Dr. Name (Last) _____ (First) _____
Name office _____ (Contact Person) _____
Address _____ City _____ State _____ Zip _____
Phone () _____ Fax () _____ E-mail _____

Sterilization Assurance Service

Customer ID# (for current customers) _____

Sterilizer Type/Model/Serial # _____
(Supplies for each sterilizer must be kept separate for identification purposes)

☐ Steam _____ ☐ Chemical Vapor _____ ☐ Dry Heat _____

Basic (1) One test strip and one control strip per test (2) Return envelopes
(3) Monthly report (4) Failure notification via phone

Price	Quantity	Total
\$89/12 tests	_____	\$ _____
\$119/24 tests	_____	\$ _____
\$169/52 tests	_____	\$ _____
Optional: Certificate of participation \$12/ea		\$ _____
Add \$15 shipping & handling for each package		\$ _____

Basic Plus (1) One test strip and one control strip per test (2) Return envelopes
(3) Weekly report (4) Failure notification via phone

Price	Quantity	Total
\$229/52 tests	_____	\$ _____

Intensive (1) Two test strips and one control strip per test (2) Prepaid return envelopes
(3) Certificate of Participation (4) Report on each test
(5) Failure notification via phone

Price	Quantity	Total
\$128/12 tests	_____	\$ _____
\$298/52 tests	_____	\$ _____

Class V Integrator for Steam Sterilizer (New)

Price	Quantity	Total
\$32/100 tests	_____	\$ _____
\$220/1000 tests	_____	\$ _____

Dental Unit Waterline Testing

Customer ID# (for current customers) _____

Tests	Price/Each	# of Tests	Total
3	\$30	_____	\$ _____
4-8	\$27	_____	\$ _____
9-12	\$25	_____	\$ _____
13-25	\$23	_____	\$ _____
>26	\$22	_____	\$ _____

Optional: Certificate \$12/each \$ _____


- A foam box, ice packs, sample vials, and instructions are included.
- Use APHA Standard Methods 9215D to test DUWLs samples.
- Full dilutions provide accurate Heterotrophic bacteria counts.

Shipping & handling

Priority Mail - starting \$15.00/box

FedEx 2-day - \$36/3-12 tests; \$45/13-40 tests

Check enclosed \$ _____ (made payable to SAS-LLU)

Charge: Total \$ _____ ☐  ☐ 

Name on card _____

Card number _____

Exp. Date ____/____/____ CCV# _____ Invoice# _____

Mail to:
Dental Waterline Testing & Sterilization Assurance Service
Chan Shun Pavilion, Suite A-1005
11175 Campus Street, Loma Linda, CA 92350

Tel: (909) 558-8176, (909) 558-8069

Fax: (909) 558-0307

E-mail: sas@llu.edu

dentistry.llu.edu/sas

LLUSD NEWS

Wendy Gregorius: Teacher of the Year

Wendy Gregorius, DDS'07, MSD, assistant professor, Advanced Dental Education Program in Prosthodontics, received the Pierre Fauchard Academy Teacher of the Year award from the Southern California Section of the Academy.

Dr. Gregorius' award was presented by the Academy president, Rick Sawers, DDS, on May 19, 2018, during the California Dental Association's annual Recognition and Awards Luncheon in Anaheim.



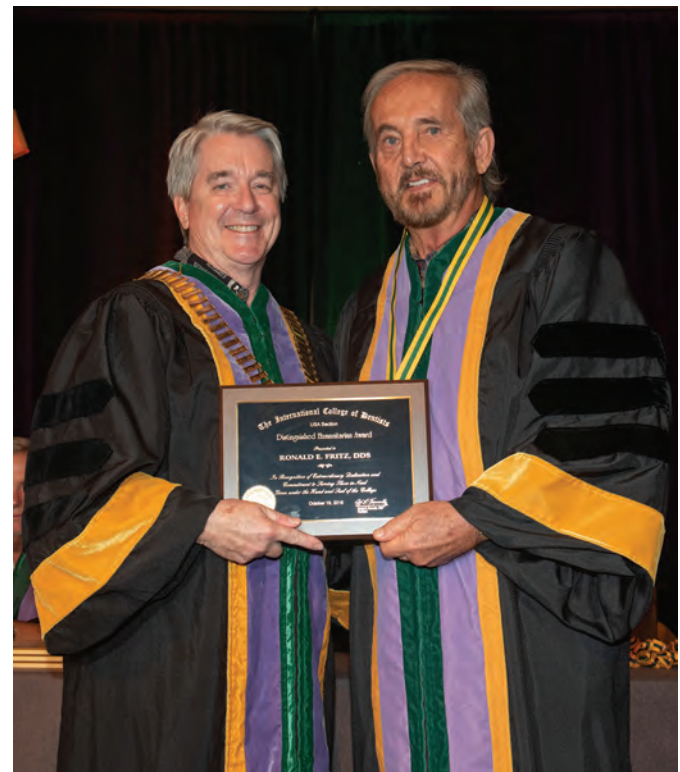
Dr. Gregorius stands with her husband, Emil Grakov, RRT.

Ronald Fritz named Distinguished Humanitarian

Ronald Fritz, DDS'72, MPH, was honored by the International College of Dentists (ICD) with its Distinguished Humanitarian Award at the ICD Convocation Friday, October 19, 2018, during the American Dental Association's annual convention in Honolulu, Hawaii.

Joseph R. Kenneally, DMD, president, USA Section of ICD, presented Dr. Fritz the honor, which is awarded annually to an ICD USA Section Fellow who has demonstrated an extraordinary dedication and commitment to serving those in need.

Since working for six years at the Bella Vista Hospital in Mayaguez, Puerto Rico, early in his dental career, the majority of Dr. Fritz's volunteer service has been to underserved populations in the Caribbean and Latin America.



Dr. Kenneally (left) enjoys the moment with Dr. Fritz.

NASDAD grateful for 75 years

The National Association of Seventh-day Adventist Dentists (NASDAD) celebrated its 75th Anniversary Convention (October 12-16, 2018) at the Hilton Waikoloa Village Resort on the Kona coast of the Big Island—Waikoloa, Hawaii.

Not everyone knows that NASDAD is the founding parent of the LLU School of Dentistry. The organization takes satisfaction from its history of dedication to Adventist dental education, its dental missions, its encouragement of LLUSD students and those in the other SDA dental schools worldwide to Christian mission service, and the opportunities it presents for professional and social association with like-minded oral healthcare providers.

NASDAD's 75th Anniversary Convention weekend was replete with professional development, sumptuous fare, and good fellowship; but its primary focus was on dental missions. With more than 50 dental professionals and their families, friends of NASDAD, and local guests, the group swelled to at least 160 people. Richard Hart, MD, DrPH, presented the spiritual emphasis for Friday vespers as well as the Sabbath sermon in which he expanded on the need to foster "an organization that demonstrates Christ's love for the marginalized." He also noted the potential for "what has made our church unique and successful to polarize and separate us."

Sabbath afternoon, Dr. Melvin "Pug" Lund, a pioneering LLUSD faculty member, described early experiences that included his call to teach at the School. And Steve Baker, DDS'76, a Sonora, California, practitioner, shared how he found

a recent dental graduate to join his practice—a conversation between someone in the NASDAD office and a then senior dental student led to an introduction that resulted in what has felt like a God-sent working arrangement.

NASDAD's executive director, Doyle Nick, DDS'78, associate professor, Division of General Dentistry, was pleased with "the 12 hours of CE presentations" that he found "topically varied and substantive, interesting, and sometimes entertaining."

Throughout the weekend, participants weighed the implications of NASDAD's anniversary theme: Creating Our Future, Celebrating Our Past. "Organizations wax and wane, and the most unfortunate devolve to a status of merely maintaining themselves," Dr. Nick noted. But he was pleased to observe that "NASDAD has escaped that fate by focusing on the reasons it was begun. We will see our actions bear fruit as we continue to be faithful to the mission of our profession and to God's leading," he concluded.



Dr. Richard Hart



Thirty-six attendees memorialize their presence at NASDAD's 75th Anniversary Convention.

Herford's healing hands

Alan Herford, DDS'94, MD, chair, Department of Oral and Maxillofacial Surgery, received a Healing Hands pin on Monday, September 3, 2018. There to celebrate his award were Dean Robert Handysides, DDS'94, LLUSD senior development officers Tim Sherwin, MA, Juliana Powell, and Jane Hoag, development officer, Patient Engagement Services, LLUH.

Healing Hands is an LLUH grateful patient program that since its launch in 2014 has seen over 500 Loma Linda University Health physicians, dentists, staff members, students and volunteers honored by patient donations.

Gifts may be of any amount, directed to any area (or area of greatest need), and specified in appreciation for any LLUH team member who had a positive impact on a patient's experience.



L-R: Jane Hoag, Tim Sherwin, Juliana Powell, Dr. Herford, and Dean Handysides.



Dr. Vivian Haber

Vivian Haber inducted

Vivian Haber, DDS'85, assistant professor, Division of General Dentistry, was inducted as a fellow in the International College of Dentists (ICD) during the American Dental Association annual meeting this October in Hawaii.

Fellowship in ICD is by invitation, and the honor is bestowed upon those dentists who have made significant contributions to the profession, their community, and successfully completed a thorough peer review process.

Alan Herford elected to chair the Osteo Science Foundation

Alan S. Herford, DDS'94, MD, chair, OMFS, was recently elected for a two-year term as board chair for the Osteo Science Foundation (OSF).

As a founding board member of OSF, Dr. Herford has represented the organization at prominent research symposia on reconstructive surgery and maxillofacial trauma.

Founded in 2013, OSF has contributed over \$1,000,000 to research and education in oral and craniomaxillofacial surgery.



Dr. Alan Herford

LLUSD NEWS

LLUSD alumni inducted to Academy of Dentistry International

Five LLUSD alumni were inducted as fellows to the Academy of Dentistry International (ADI) on Wednesday, Oct. 17, in Honolulu, Hawaii, the day before the opening of the American Dental Association's annual convention.

Learning; Paul Yoo, DDS'08, adjunct assistant professor, Educational Services; and Chuck Kon, DDS'80.

The Academy of Dentistry International is devoted to the advancement of dentistry throughout the world and to the



L–R: Dr. Masillamoni; Ronald Fritz, DDS'72, MPH, chair ADI USA Section and ADI vice president for Education; Dr. Chen; Dr. Kerstetter; Dr. Yoo; Michael Boyko, DDS'75A, MPH, assistant professor, OMFS, and vice regent for ADI USA southwest; Dan Ninan, DDS'09, regent for ADI USA southeast, and Dr. Chuck Kon.

The LLUSD alumni inducted were Collet Masillamoni, DDS'81; Jung-Wei Chen, DDS, MS, MS, PhD, program director, Advanced Dental Education Program in Pediatric Dentistry; Gary Kerstetter, DDS'82, director, Service

elevation of dental standards by continuing education.

Fellowship in the ADI is bestowed on dentists of at least five years practice whose professional, civic, and related accomplishments are truly outstanding.

Sarat Ummethala achieves Diplomate status

Sarat Ummethala, DDS'07 (IDP), MBA, a 2018 graduate of the Advanced Education Program in Implant Dentistry, recently passed his American Board of Oral Implantology/Implant Dentistry examination. The ABOI/ID diplomate designation symbolizes the highest level of competence in implant dentistry. Certification by the ABOI/ID attests to the fact that a dentist has demonstrated knowledge, ability, and proficiency in implant dentistry.



Dr. Sarat Ummethala

LLUSD contingent inducted to American College of Dentists



L–R: Jaime Lozada, Leif Bakland, Mike Boyko, Wayne Tanaka, Jeffrey Elo



Judith Wipf and Butch Ehrler

Four LLUSD alumni and/or faculty members were inducted as fellows to the American College of Dentists (ACD), the oldest major honorary organization for dentists, during its annual meetings (Oct 17-18) in Honolulu, Hawaii, coincident with the American Dental Association's annual convention.

Newly inducted ACD Fellows were Michael P. Boyko, DDS'75A (sponsor, Wayne K. Tanaka, DDS); Jeffrey A. Elo, DDS, MS'06 (sponsor, Wayne K. Tanaka, DDS); Jaime L. Lozada, DDS, PG'87, PG'97 (sponsor, Leif K. Bakland, DDS'63); and Judith K. Wipf, BS'86 (DH), DDS'91 (sponsor, Clelan "Butch" Ehrler, DDS'68, MS'71).

Regent for Regency 7 (Includes CA): Gary S. Yonemoto, DDS, MS'80, gave the invocation for the award convocation.

LLUSD offers Orthodontic Assisting Permit Program

This 84-hour course (52 hours at LLU laboratory, 32 hours at extramural facility) **makes RDA students eligible to take the written state board examination for Orthodontic Assisting Permit licensure.**

This Orthodontic Assisting Permit course will train you to

- prepare teeth for bonding, and select, pre-position, and cure orthodontic brackets after their position has been approved by a licensed dentist;
- remove only orthodontic brackets and attachments with removal of the bonding material by a supervising licensed dentist;
- size, fit, and cement orthodontic bands;
- remove orthodontic bands and excess cement from supragingival surfaces of teeth with a hand instrument;
- place and ligate archwires.

Tuition: \$1,500 Program dates: Autumn 2019 dates to be determined.

Contact Jeri at: JLFowler@llu.edu

Or call: (909) 558-4399

Lozada named board president

Jaime L. Lozada, DDS, professor and program director, Advanced Education Program in Implant Dentistry, was named president of The American Board of Oral Implantology/Implant Dentistry (ABOI/ID) at the 2018 annual meeting of the



Dr. Jaime Lozada

American Academy of Implant Dentistry in Dallas, Texas.

Founded in 1969, the ABOI/ID is an independent organization whose mission is to elevate the standards and advance the science of oral implantology/implant dentistry.

Swamidass takes first in research

Rajesh Swamidass, DDS'13, MSD'18, Advanced Dental Education Program in Prosthodontics, placed first at the Graduate Research Competition held June 29th, 2018 at the annual meeting of the Pacific Coast Society for Prosthodontics.



Dr. Rajesh Swamidass

His topic was "Effect of Cyclic Loading on Implant Crowns with 2 Angles of Screw Access Channels."

Dr. Swamidass received certifications in both implant dentistry and prosthodontics in 2017.

RDAEF Expanded Duties Program

This comprehensive Board-approved RDAEF program provides 410 hours of instruction for RDAs and 318 hours of instruction for existing RDAEFs. It combines didactic, hands-on laboratory and live patient clinical experiences that satisfy the California Dental Board's requirements for new and existing RDAEFs who wish to expand their licensure in preparation for earning certification in the new extended functions.

This RDAEF Expanded Course will be taught as a series of three individual courses (modules) that must be successfully completed in a designated sequence within an established time frame before taking the new State Board Examination. Modules can be paid individually and sessions will be offered on Sundays and evenings to better accommodate working adults.

To successfully complete the program and be eligible to sit for the new State Board Examination, participants are required to pass all three modules with a minimum 75% pass rate.

Module 1

Fee: \$4,700 | CDE Credits: 104

July 7, 2019 - Sept. 29, 2019 (19 class sessions)

July 7, 9, 11, 21, 23, 25 / Aug. 4, 6, 8, 18, 20, 22, 25 / Sept. 3, 5, 15, 17, 19, 29, 2019

Module 2

Fee: \$6,300 | CDE Credits: 128

Oct. 1, 2019 - Dec. 17, 2019 (24 class sessions)

Oct. 1, 3, 13, 15, 17, 20, 22, 24 / Nov. 3, 5, 7, 17, 19, 21, 24, 26 / Dec. 1, 3, 5, 8, 10, 12, 15, 17, 2019

Module 3

Fee for Licensed RDAEFs: \$6,000 | CDE Credits: 104

Fee for RDAs: \$7,000 | CDE Credits: 180

Jan. 6, 2020 - May 17, 2020 (30 class sessions)

Jan. 5, 7, 9, 19, 21, 23, 2020 / Feb. 2, 4, 6, 16, 18, 20 / March 1, 3, 5, 15, 17, 19, 29, 31 / April 2, 5, 14, 16, 26, 28, 30 / May 12, 14, 17, 2020

All three modules can be paid with payments, with balance due 10 days before the end of each module.

Class times: Sundays: 8:00 AM to 5:00 PM (with a one-hour lunch period)
Tuesdays & Thursdays: 5:30 PM to 9:30 PM

Financial Aid: Loma Linda University Continuing Dental Education is now offering funding available to qualified individuals through the **"Sallie Mae Smart Option Student Loan"** program. These are low interest student loans in which you can choose between 3 repayment options. Apply online and it only takes approximately 15 minutes to get a credit result. The site is NOW LIVE & ready to go! Please visit the Sallie Mae website for more information.

To register call: LLUSD Continuing Education

11245 Anderson Street, Suite 120 | Loma Linda, CA 92350
Ph: (909) 558-4685 | F: (909) 558-0835 | dentistry.llu.edu/rdaef

Dental hygiene students published



Victoria Santiago



Melissa Cardenas



Anne-Laure Charles



Estefany Hernandez

Four LLUSD dental hygiene class of 2017 then student researchers—Victoria Santiago, Melissa Cardenas, Anne-Laure Charles, and Estefany Hernandez—co-authored with their faculty mentors—Udochukwu Oyoyo, MPH, PhD candidate, assistant professor, Center for Dental Research, and So Ran Kwon, DDS, MS, PhD, MS, professor and director, Student Research—an article entitled, “Evidence-Based Practice Knowledge, Attitude, Access and Confidence: A comparison of dental hygiene and dental students,” that was published in the April 2018 Journal of Dental Hygiene (pp. 31-37).



Dr. Minaal Verma

Minaal Verma awarded third place

Minaal Verma, BDS, DDS, MDS, implant dentistry fellow, was awarded third place for her table clinic with Jaime Lozada, DDS, program director, Advanced Education Program in Implant Dentistry, entitled, “Evaluating & training for dynamic navigation in dental implant surgery: pilot study” that was presented at the American Academy of Implant Dentistry’s 67th Annual Meeting in Dallas, Texas, September 26-29, 2018.

Shivani Karre places third

Shivani Karre, DDS, third-year graduate student, Advanced Dental Education Program in Prosthodontics, placed third at the Graduate Research Competition held June 29, 2018 at the annual meeting of the Pacific Coast Society for Prosthodontics. Her topic was “Complications associated with implant distribution for mandibular fixed complete arch prostheses.”



Dr. Shivani Karre

FOND FAREWELLS

William Asano**Dr. William Asano**

Surrounded by friends and family members, **William S. Asano**, DDS'62, MS'65, died on April 27, 2018, in Ventura, California, following a long hospitalization after heart surgery.

Born January 7, 1936, in Oakland, California, Dr. Asano had grown up in Denver, Colorado, attending Campion Academy in Loveland, Colorado, before completing pre-dental studies and dentistry at Loma Linda University.

Dr. Asano established a dental practice in Ventura, California, where he served succeeding generations of patients in a 50-year orthodontic practice. Enthusiastic about a variety of pursuits—golfing, reading, good food, and spiritual development generated in individuals and groups—he earned a reputation for making everyone feel special and welcome.

Predeceased in 2012 by Dorothy, his wife of 52 years, Dr. Asano left to cherish his memory two daughters—Karen (husband Kenny) Myers and Annette Asano of Ventura. The family suggests memorial events be created in Dr. Asano's memory at a meal with friends and loved ones, saving a seat and raising a glass to William.

J. Will Baker**Dr. J. Will Baker**

Born at home in Three Brothers, Arkansas, on August 28, 1934, **J. Will Baker**, DDS'67, had just finished high school when he entered the U.S. Air Force and served his country in Anchorage, Alaska.

After completing pre-dental studies at University of California Riverside, Dr. Baker entered LLUSD's class of '67. Devoted to his patients in his subsequent dental practice in Huntsville, Alabama, he continued to keep appointments there after partial retirement in Florida.

He will be remembered for his musical talents; he directed the choir in his local church and also sang in a barbershop quartet.

An enthusiastic biker, Dr. Baker logged over 250,000 miles on his motorcycle, including two Alabama-Alaska round trips. He suffered an accident May 19, 2018, when his three-wheel motorcycle collided with a guard rail in Guntersville, Alabama. He died following an air lift to a Huntsville hospital.

After the death of his first wife, Grace Bergvall, Dr. Baker married Mary Fox-Baker of Smyrna Beach, Florida, who survives him, along with his children—Tami (husband David) Richardson, of Calhoun, Georgia; Tim of Madison, Alabama; and Tom (wife Heidi), of Sorrento, Florida—and five grandchildren.

James Clark Campbell**Dr. James Campbell**

Born December 12, 1936, in Berkeley, California, **James Clark Campbell**, DDS, completed pre-dental studies in Berkeley. He would pursue his dental studies at UC San Francisco in 1963.

His dental pursuits launched Dr. Campbell into vigorous humanitarian alliances. He was serving as a volunteer on the U.S.S. hospital ship H.O.P.E. in Jamaica when he met Katherine Skousen, also a volunteer. The two married in 1972, and continued to work together in American Samoa, Bangladesh, the Dominican Republic, Haiti, St. Lucia, Brazil, Bolivia, Honduras, Taiwan/China and South Korea.

Dr. Campbell also aligned academic pursuits with his professional practice. He served as adjunct faculty in oral surgery at LLUSD 1984-2001. He would lecture and perform surgery at Seoul Korea Adventist Hospital, 1989-90. For two years he served as director of dental services in American Samoa and later worked with Indian Health in Oklahoma.

When he died April 5, 2018, Dr. Campbell left to mourn his wife of 47 years, Katherine of Washington, Utah, and his children—Kristin (husband Robert) Rodriguez of West Sacramento; Karen Edwards of St. George, Utah; Karlene (husband Jeremy) Baker of Leesburg, Virginia; and Clark (wife Kelly) Campbell of Las Vegas, Nevada.

Harold Dent**Dr. Harold Dent**

Harold Dent, DDS'67, born in San Diego on June 27, 1928, had completed a bachelor's degree in biology at then Pacific Union College, Angwin, California, spent two years in the army during the Korean War, and served several years as a city planner in La Mesa, California, when he entered LLUSD's class of '67.

Opening a practice in Susanville, California, he improved the six-acre site where he and his wife raised their children. Establishing involvement with his community during his 32 years of practice, he was also designing and drawing political cartoons for *Lassen County Times* and serving on the Lassen County Board of Education. With his family he spent many happy hours boating on Eagle Lake, camping, and enjoying trips to the coast. In retirement Dr. Dent and his wife, Donna, moved to Phoenix, Arizona, to be near family.

Mourning the death of Dr. Dent on May 28, 2018, are his wife of 64 years, Donna of Phoenix; his son David of Mesa, Arizona; two daughters—Kathy (husband Bill) Green of Davis, California, and Karen (husband Jack) Moretti of Phoenix—six grandchildren, and one great grandchild.

FOND FAREWELLS

Mark Francis

A professional ice skater and underwater photographer associated with National Geographic and German broadcasting, **Malcolm M. Francis**, DDS'92, was in a busy dental practice until he died after a tragic accident on June 11, 2018, in Sisters, Oregon.

Dr. Francis was born in La Jolla, California, on December 18, 1960. At 14 he became certified in SCUBA and developed a natural eye for photography. In step with his undergraduate studies at UC Santa Cruz and UC Riverside, Dr. Francis researched penguins at Sea World, elephant seals at UC Southern California, and humpback whales at Scripps Institution of Oceanography, UC San Diego.

Ultimately deciding to pursue the profession of his father and grandfather, Dr. Francis joined LLUSD's class of '92 and served his class as president all four years. He used his professional skills to teach college courses at Oregon Health Sciences Institute and assist the FBI with forensic dental analyses.

Dr. Francis' survivors include his wife of 34 years, Laurie; his daughters, Ashlee and Cathryn; and an infant grandson, Kaenon, all of Sisters, Oregon.

Gifts in Dr. Francis' memory may be given to support his grandson's medical journey: <https://gofundme.com/4tkc9>

**Dr. Mark Francis****Dr. William Knecht****William Knecht**

Although he was born in Los Angeles, California, on October 28, 1936, **William Earl Knecht**, DDS'68, would spend most of his life in the Midwest. He attended Broadview Academy in Broadview, Illinois, Emmanuel Missionary College (now Andrews University) in Berrien Springs, Michigan, and Hinsdale Nursing School in Hinsdale, Illinois, before completing studies at LLUSD in the class of '68.

With military service as a first lieutenant in the U.S. Army behind him, Dr. Knecht established a practice in Owosso, Kansas. He would serve patients there for 47 years.

He would also be active in his local church and in LLUSD's NASDAD organization. Moving to Olathe, Kansas, in retirement, Dr. Knecht died there on August 28, 2018.

Predeceased by his son Roger, DDS'90, who had joined his practice, Dr. Knecht's survivors include his sons—Allen (Andrew) Knecht, DC; and Michael (Nan) Knecht—his daughter-in-law Cherie Knecht, and eight grandchildren.

Memorial contributions are suggested for New Haven SDA Church's Renewed Life Pantry, Overland Park, Kansas.

Ben Grant**Dr. Ben Grant**

Fondly nicknamed "Gentle Ben" by his students at LLUSD, **Ben Grant**, DDS, was born in Los Angeles, California, on November 8, 1924. He completed pre dental studies at then Walla Walla College, preparatory to pursuing dentistry at the University of Oregon, where he graduated in 1946. A few months later he began 18 months of active military duty.

His military service completed, Dr. Grant opened a practice in Bandon, Oregon. He soon became involved in

church activities, singing in a men's quartet, teaching, preaching, and starting a Pathfinder Club. He was also active in civic organizations.

In 1972 Dr. Grant joined the restorative department at LLUSD. It was here that he touched many lives personally and professionally until his retirement in 1990. Living in Boise, Idaho, in retirement, Dr. Grant became active in a plant nursery. Later, moving to Eugene, Oregon, he was involved in events that encouraged community building.

Predeceased by his wife, Carol, shortly before their seventy-first wedding anniversary, Dr. Grant died June 5, 2018, a few months before his 94th birthday. His survivors include his son, Brad; his daughters—Kathy Wilson and Suzanne Dassenko—nine grandchildren, and seven great grandchildren.

**Ms. Deanne Morita****Deanne Morita**

Deanne M. Morita, BS'74 (DH), was born on June 16, 1952, in Oakland, California. She studied at Pacific Union College, Angwin, California, before entering LLUSD's dental hygiene program. Four years later she completed a master's in public health at LLU.

She pursued her professional career in Ontario, California. For approximately 10 years she was employed by the state of California, administering dental care programs in public schools.

In various California churches Mrs. Morita applied her pianoforte skills. At Modesto Central SDA Church, she participated both at the piano and in the bell choir.

Dying on December 15, 2016, in Modesto, California, at the age of 64, Mrs. Morita left as mourners her husband, Roy Morita, DDS'82, PG'90, and two daughters: Lindsay and Lauren Morita.

FOND FAREWELLS

Eugene Radomsky*Dr. Eugene Radomsky*

Born in Camrose, Alberta, on June 3, 1951, **Eugene Radomsky**, DDS'75B, would return to Canada after completing dental studies at LLUSD. He had attended Canadian Union College, College Heights, Alberta, and studied engineering at Walla Walla College, College Place, Washington, before deciding to become a dentist. Dentistry proved to be a pursuit that he greatly enjoyed. He made many friends among his patients.

During 37 years of dental practice in Regina, Saskatchewan, Dr. Radomsky was notably involved in activities at his local church. He was also an avid private pilot and enjoyed woodworking. He died January 4, 2018, in Regina after a long battle with Alzheimer's disease.

Dr. Radomsky's mourners include his wife of 45 years, Gloria of White City, Saskatchewan; his two daughters—Tetiana LLUAH '04 (husband David, LLUSM '04) Appel, of Spokane, Washington; and Tiffany, LLUSM '06 (husband Ben, LLUSM'04) Bretsch of Spangle, Washington, and four grandsons.

Donations in Dr. Radomsky's memory may be made to the Alzheimer Society of Saskatchewan.

Harry Schneider*Dr. Harry Schneider*

Born March 14, 1954, in Atlanta, Georgia, **Harry Mills Schneider**, DDS'84, would pursue an active life for 64 years. He taught physical education, completed predental studies at Loma Linda University, La Sierra campus, and rejected a Triple A contract offer from the Minnesota Twins before entering dental school at LLUSD.

His new career would take him to Palm Desert, California, where he practiced dentistry for 30 years. He continued participation in many sports—tennis, water skiing, basketball, golf. He coached golfing at Desert Christian Academy, and friends knew he was always a good source for golf swing tips.

When he died in Palm Desert, September 16, 2018, Dr. Schneider left as mourners his wife of 40 years, Karen (LLUSN'77) of Palm Desert, his mother, Ruthmary of Riverside, and his son Eric (wife Michelle) of Palm Desert.

The family has suggested that donations in Dr. Schneider's memory can be made to the Wounded Warrior Project.

*Dr. Laurence Seifert**Laurence Seifert*

Born in Loma Linda on May 25, 1942, **Laurence Seifert**, DDS'68, completed predental studies at Pacific Union College, Angwin, California, before entering dentistry at LLUSD. Upon graduation, he would provide dental services as one of a few navy officers assigned to El Toro Marine Base, Laguna Beach, California.

Dr. Seifert then practiced dentistry in Tustin, California, before returning to LLUSD to complete orthodontics studies. He became the first orthodontist in Rancho Cucamonga, California. On LLUSD's orthodontics faculty for 18 years,

he was known by the students as "the man with the golden hand."

An active sportsman, Dr. Seifert established a significant golfing partnership with his son and seasonal boating adventures with his dental colleagues. His meticulous gardening skills produced a neighborhood gem.

Suffering a series of health issues during the past 10 years, Dr. Seifert was living in Banning, California, under the tender care of his son and wife when he died June 27, 2018. Mourning his death are Mona, his wife of 54 years; Eric, his son, whose home is Nashville, Tennessee; his daughter Seanna (husband Matt) Fishbein, of San Diego, California; and one grandchild.

Helmut Spenst*Dr. Helmut Spenst*

Seemingly destined for a life of farming, **Helmut David Spenst**, DDS'67, who was born August 6, 1933, in Rosthern, Saskatchewan, Canada, spent his early years on the family homestead in Saskatchewan. When he was 29, his brother, Arthur Spenst, DDS'61, had finally convinced him to pursue dentistry. With predental studies completed at Canadian Union College, Lacombe, Alberta, and Union College, Lincoln, Nebraska, Dr. Spenst graduated from LLUSD's program six years later. He would practice dentistry for 49 years in

Saskatoon and Red Deer, Alberta.

Dr. Spenst will be remembered for his love of family and of farming, a cherished hobby that kept him traveling between his practice and the homestead. When he died August 8, 2018, he left to mourn his wife of 55 years, Martha; his son David of Wichita, Kansas; his daughters—Michelle Spenst, LLUBS(DH)'91, of Lacombe; and Julie (husband Shawn) Nicol, LLUBS(DH)'95, of Red Deer—and four grandchildren.

Donations in Dr. Spenst's memory are gratefully accepted at *It Is Written* or the Society for Prevention of Cruelty to Animals.

FOND FAREWELLS

Donald Tucker**Dr. Donald Tucker**

The doctor arrived three days after **Donald L. Tucker**, DDS'63, was born on a farm during a fierce Sandpoint, Idaho, snow storm, February 22, 1931.

During a Korean War tour of duty, Dr. Tucker worked in a dental laboratory. His commanding officer, a dentist, suggested: "We'll send you to dental school." Thus prompted, Dr. Tucker pursued predental studies at Walla Walla College, College Place Washington, before completing dental studies at LLUSD.

Moving from an initial dental office in Whittier, California, Dr. Tucker practiced 18 years in La Habra, California, and another 18 in Sandpoint, Idaho. There he established a footprint, Tucker Ranch, maintaining 12 miles of fencing for his registered bulls and replacement heifers. He raised dairy cattle and hay with the same enthusiasm he exerted in providing dental care.

When he died on May 26, 2018, in Glendale, California, Dr. Tucker had been predeceased by his wife Peggy Sue; survivors include the mother of his children, Geraldine Stephens of San Juan Bautista, California; his daughter Janelle (husband Dan) Hillard of Thousand Oaks, California; his son Robert of Glendale; and two grandsons.

Joseph Uniat**Dr. Joseph Uniat**

The grandson of Ukrainian grandparents who had immigrated to Canada, **Joseph Uniat**, DDS'60, was born in Beau Allen, Alberta, on April 26, 1931. He would prepare for dentistry at Canadian Union College and Walla Walla College before entering LLUSD's class of 1960.

After three years of practice in Toronto, Dr. Uniat pursued an oral surgery residency at the University of Toronto. There followed 25 years' dentistry in Rocklin, California. Once established in a practice, he chose to explore the land of his

forebears. On a trip to Ukraine in 1980 he determined to benefit the residents in the Carpathian Mountains with a health center. For the subsequent 25 years he spent two to three months annually at the site, supervising the establishment and operation of a non-profit center to be affiliated with the local Adventist conference.

Dr. Uniat continued his trips to the health center in Ukraine until 2014, when his health no longer permitted such travel. After his death in Rocklin, he left to mourn his wife of 60 years, Dorothy of Rocklin; his daughter, Susan (husband Mike) Rollings, of Roseville, California; his son, Brooks, DDS'99 (wife Alisa, DH' 99) of Eagle, Idaho; and two grandchildren.

Timothy Wall**Dr. Timothy Wall**

Friend, father, husband, dentist, contractor, explorer, adventurer **Timothy G. Wall**, DDS'76, was a person of diverse activities. Born January 3, 1942, in Sacramento, California, he would pursue predental studies at Pacific Union College, Angwin, California, before entering LLUSD's class of '76.

Upon graduation Dr. Wall began practicing dentistry in Oakdale, California. A year later he spent three years in a Georgetown, Guyana, dental clinic. He established thereafter a pattern of accepting appointments to perform

volunteer dentistry and establish dental clinics around the world while maintaining an Oroville, California, practice for 38 years. At these various sites he was adept at solving problems and building projects.

Dr. Wall was suffering with ALS when he died on May 8, 2018, in Sacramento, California. He left to mourn his wife, Diane, of Sacramento; his daughters—Susan (husband Andreas) Pacheco of Sacramento; Bethanne (husband Konrad) of Los Altos, California; and Sheryl Wall of Sacramento; and seven grandchildren.

The family has suggested that contributions may be made in Dr. Wall's memory to the ALS Association.



LOMA LINDA UNIVERSITY

School of Dentistry

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Physical Examination of the Head and Neck for Dental Health Care Providers & Women's Health: "Nothing they have told me is true."

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Sunday, January 27, 2019

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Thursday, March 7 - Friday, December 6, 2019

Dental Divas and Problem Parents? No Problem!

Sunday, March 24, 2019

Hot Topics in Infection Control and the California Dental Practice Act

Sunday, April 7, 2019

Periodontics Symposium: Clinical Applications of Modern Techniques

Sunday, April 14, 2019

Patient Photography Made Easy! A Lecture and Workshop

Sunday, April 28, 2019

Dispelling the "CSI Effect" Myth, An Overview of Contemporary Forensic Dentistry and Dentistry's Role in the Mass Disaster Scenario/Child Abuse and Intimate Partner Violence Recognition

Sunday, June 2, 2019

Orthodontic Assisting Permit Program

Sunday, September 2, 2019

Medical Emergencies in the Dental Office: A Simple Approach

Sunday, September 15, 2019

Hot Topics in Infection Control and the California Dental Practice Act

Sunday, September 29, 2019

Dental Caries: A Disease of Choice?

Sunday, October 6, 2019

PNAM Symposium

Sunday, October 27, 2019

Local Anesthesia: Give it Your Best Shot

Sunday, November 10, 2019

Oral Pathology for Dental Hygiene

Sunday, November 17, 2019

For more information or to register, contact LLUSD Continuing Education
11245 Anderson Street, Suite 120, Loma Linda, CA 92354
Ph: (909) 558-4685 | F: (909) 558-0835 | dentistry.llu.edu



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