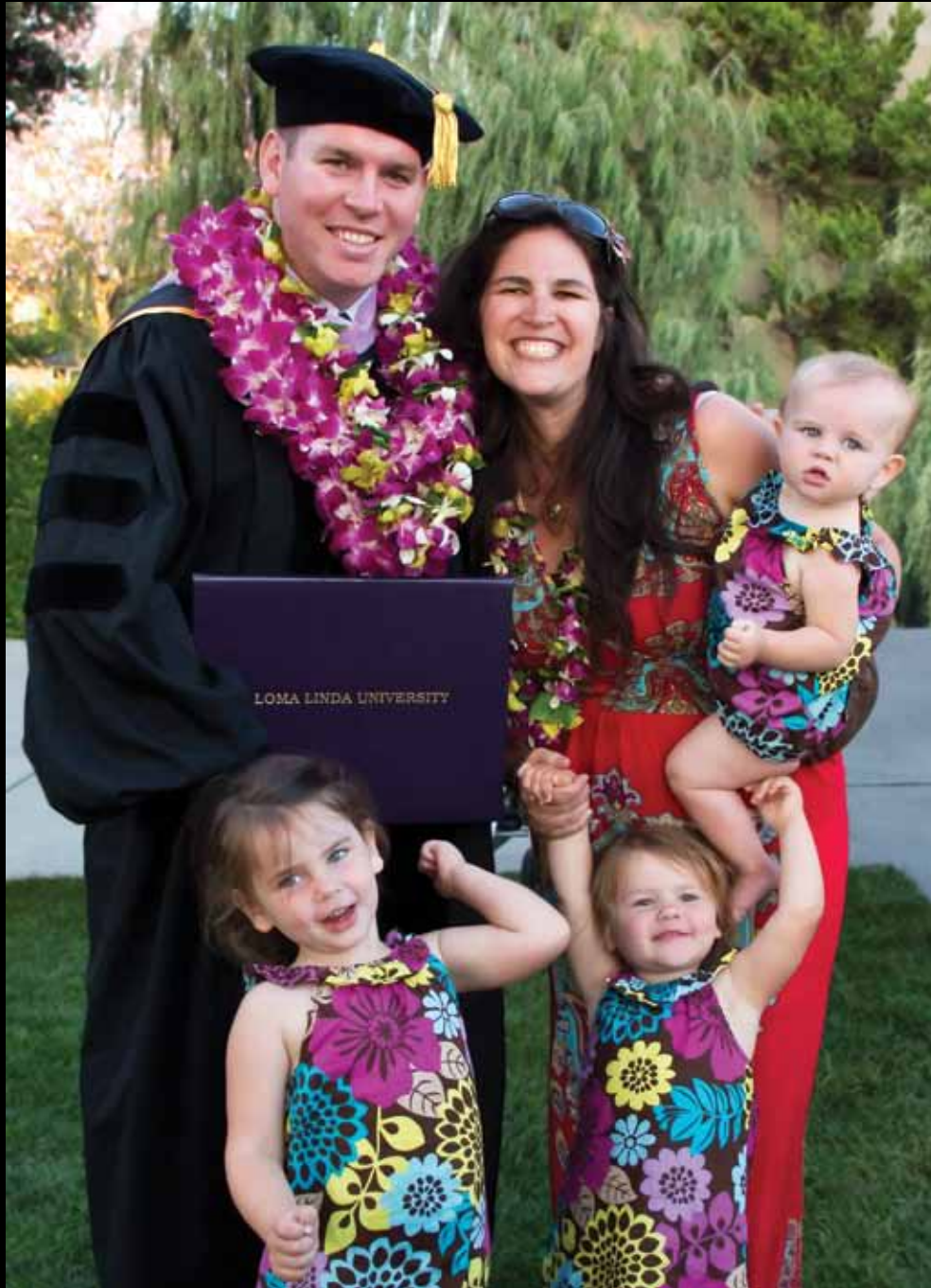


LOMA LINDA UNIVERSITY

# Dentistry



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Joni Stephens retires**

**CAD/CAM technology:  
application to complete  
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# \$50

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# LOMA LINDA UNIVERSITY DENTISTRY

VOLUME 23, NUMBER 2 SUMMER/AUTUMN 2012

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## 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.



*Graduates, faculty, family, friends and well-wishers celebrate in the moments after the School of Dentistry's 53rd commencement.*

## Purpose

*Loma Linda University Dentistry* informs alumni, faculty, students, and other interested individuals about current School programs, events, and activities, as well as accomplishments of fellow alumni, faculty, and students. The journal is published twice each year by Loma Linda University School of Dentistry.

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*David Westerhaus, SD'12, celebrates with (clockwise) his wife, Anja, and daughters Jocelyn, Liliana, and Ella Grace. He is currently a resident in the LLUSD Advanced Specialty Education Program in Dental Anesthesiology.*



## **C O N T E N T S**

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58

## Dean's message: *Embracing a spirit of innovation*

Today, there are fewer and fewer aspects of society not affected and in some cases ruled by computers and technology. They have become an everyday aspect of life with nearly everyone carrying one or more devices to access information or communicate in some way. Computers control air traffic, monitor road traffic, allow previously inconceivable means of communication, manage commerce, and affect many aspects of our daily life. Advances continue to emerge at an accelerated pace.

Dentistry has become immersed in technology and the use of computers through electronic patient records, digital radiographs, 3D imaging and associated planning software, and a host of diagnostic devices and treatments that use advanced materials and technology.

August of 2012 marks the grand opening of the Hugh Love Center for Research & Education in Technology, a facility that now makes it possible for students to provide patient care in a technologically advanced environment with the latest operatory equipment as well as a wide range of advanced diagnostic and treatment devices and methodologies. The equipment was provided by a forward-thinking group of dental manufacturers, suppliers, and an insurance company organized by the professionals who established CRET (Center for Research & Education in Technology). They recognized the importance of students having the opportunity to spend extended periods of time treating patients in a technologically advanced environment. Therefore, they conceived the plan whereby the school would provide space, support staff, and the integration of technology into the curriculum, and CRET would design the space and provide the technologically advanced equipment. They solicited proposals from dental schools in 2009. Loma Linda University School of Dentistry submitted a proposal in September of 2009 and was selected as an early recipient and became the first such center to open.

The following companies, listed alphabetically, provided the technologically advanced equipment to make the center possible: A-dec; Belmont Equipment; Benco Dental Company; Bien Air Dental; Centrix, Inc.; Delta Dental of Wisconsin; DentALEZ Group; DENTSPLY International, Inc.; Harry J. Bosworth Company; Henry Schein Company;



Ivoclar Vivadent, Inc.; KaVo Group; Midmark; Patterson Dental; Premier Dental Products Company; Royal Dental; and Sirona Dental Systems, LLC.

Students as well as faculty will derive many benefits from the Hugh Love Center for Research & Education in Technology and the experience they gain by using advanced technology. They will learn how to meld the key foundational technical skills required of exceptional practitioners with innovative technologies, thereby learning how they can optimize patient care in an increasingly technology-driven world. Additionally, students are able to integrate their advanced preclinical instruction with a corresponding technologically advanced clinical experience so that they will be prepared to make effective decisions regarding the incorporation of technology into their practices.

We welcome your visit to this latest addition to the School of Dentistry. We, the leaders and faculty, remain committed to advancing the education and clinical experience of our students so that we sustain the heritage initiated by our founding faculty that has been continually advanced through the dedication and hard work of exceptional faculty.

Charles J. Goodacre, SD'71, MSD  
Dean



## Alumni president's message: *Embracing change*

**"T**he only constant in life is change," wrote Greek philosopher Heraclitus of Ephesus (c.535 BC – 475 BC). His words, translated from Greek, were "Everything flows; nothing stands still." Heraclitus's philosophy is alive and well today in dentistry and dental education. Although difficult to embrace, change is inevitable and is occurring rapidly.

As a member of the Dental Board of California, I see legislative issues relating to changes in the way we practice dentistry gaining local as well as national attention. The most significant is the move toward the development of an additional level of oral health care provider, the dental therapist.

A dental therapist is viewed by many as the dental profession's equivalent of a nurse practitioner. Although dental therapists are relatively new in the United States, they have been employed since 2004 by Alaska Native tribes. However, they have been a part of the "dental health care team" for decades in Great Britain, Canada, New Zealand, and many other countries. In May 2009, the Minnesota legislature became the first in the nation to approve licensing of dental therapists, in spite of tremendous opposition from the Minnesota Dental Association. Policy makers in several other states are viewing Minnesota's law as one of several solutions to the lack of access to dental care for millions of Americans, particularly the poor, underserved, and uninsured.

A bill calling for the design and implementation of a study to assess the safety, quality, cost-effectiveness, and patient satisfaction of irreversible dental procedures is currently working its way through the California Legislature (SB 694 - Padilla). This bill includes direct restorations and simple extractions provided by trained non-traditional oral health care providers. It has been amended several times in the Assembly and Senate, and we are currently awaiting the final version.

Technology is advancing at light-speed, rapidly changing the practice of dentistry. We, as members of the dental profession and as a pre-eminent dental health care educational institution, do not have a choice. We must embrace change! We must be leaders in the implementation of change—in how we manage our patients' care and in the use of technology in delivering that care.

Your alma mater has always provided (and will continue to provide) students with a thorough theoretical and clinical foundation in dentistry preparing them well for practice. As modern dentistry continues to change, we must also



introduce students to new technologies and embrace emerging trends of the best treatments available. As electronic patient health records, digital radiography, cone-beam tomography (CBCT), and computer-aided manufacturing (CAD/CAM) become mainstream, we enthusiastically integrate these into our curriculum to prepare students for the real world of patient care.

New technologies do not come without costs. Embracing change requires an investment in the future; it also reinforces the reputation and traditions of the past. Please consider how you can partner with us in our commitment to stay at the vanguard of dental education. Your support is vital. Embracing change will enable us to sustain the legacy you enjoy and ensure that our alumni will offer the highest quality of oral health care to their patients. For more information on any of the projects listed above, or to explore other ways you'd like to participate in embracing change, please contact one of our development professionals by calling (909) 558-4754 or email to [sdgiving@llu.edu](mailto:sdgiving@llu.edu).

A handwritten signature in dark ink that reads "Steven G. Morrow".

Steven G. Morrow, SD'60  
President, Alumni Association



The Southern Union Conference  
24th Consecutive Biennial

# Medical + Dental Retreat

September 27-29, 2012

Gatlinburg, Tennessee

Park Vista DoubleTree Hotel

**Sabbath Speaker:**

**Neil Nedley, MD** Nedley Health Solutions, Ardmore, OK

**Guest Presenters:**

**David DeRose, MD** Newstart Medical Clinic, Weimar, CA

**Charles J. Goodacre, DDS, MSD** Dean of Loma Linda University School of Dentistry

**Jim A. Williamson, OD** Veterans Affairs Medical Center, Memphis, TN

**Medical Continuing Education**

**Title of Lecture Series:** Hemorheology: Clinical Implications of an Integrating Physiological Discipline

**Individual Lecture Titles:**

- Hemorheology: What is it and Why is It Clinically Important?
- Favorably Modifying Hemorheology Through Diet & Exercise, Parts I and 2
- Hemorheology and Mental Health
- Addictive Behaviors that Can Adversely Impact Hemorheology
- The Hemorheological Impact of Selected Toxins, Medications, and Supplements

**Dental Continuing Education Lecture Titles:**

- Complete Dentures: The key factors required to optimize treatment and the use of CAD/CAM technology to fabricate dentures
- Implant or Root Canal: Which treatment is best?

**Optometry Continuing Education Lecture Titles:**

- Intravenous and Intramuscular Injections
- Subconjunctival and Intralesional Injections



For registration, go to: [www.SouthernUnion.com/MedicalDentalRetreat](http://www.SouthernUnion.com/MedicalDentalRetreat)  
or call 678.420.1419



# Upcoming Courses

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DENTAL  
EDUCATION



LOMA LINDA  
UNIVERSITY  
School of Dentistry

## *Medicine Meets Orthodontics at the Airway*

September 14, 2012

## *Treatment vs. Prevention: New Insights on Common Oral Conditions*

September 30, 2012

## *Contemporary Management of Traumatic Dental Injuries*

October 7, 2012

## *It's an RPD, Not Rocket Science!!!*

November 4, 2012

## *California Law and Infection Control*

December 2, 2012

## *Anesthesia Symposium*

February 10, 2013

## *Treatment Alternatives for Non-healing Root Canal Treatments*

January 20 - 21, 2013

### ***The following are special Alumni Student Convention courses...***



#### *Recognizing the Need for Early Treatment in Orthodontics*

Thursday, February 7, 2013



#### *Operative Dentistry*

Sunday, February 10, 2013



#### *The Role and Responsibility of the Oral Health Provider in Detecting and Reporting Domestic Abuse*

Friday, February 8, 2013



#### *33rd Annual Anesthesia Symposium*

Sunday, February 10, 2013

To register and for more information, call LLUSD Continuing Dental Education at (909) 558-4685 or visit [www.dentistry.llu.edu](http://www.dentistry.llu.edu)

## *Alumni Association Board business*

**E**ight School of Dentistry alumni were inducted to the Alumni Association Board of Directors on Thursday, February 9, 2012. This group, along with the current active directors, will be grappling with several issues over the next year, including how the Alumni Association Student Loan Fund can be distributed to meet the students' needs under the new Federal loan requirements. With subsidized Stafford loans no longer available, students will most likely be seeking assistance from the Alumni Association in greater numbers.

The goal for the Century Club is to have 100% of the Alumni Association Board of Directors donating to the School of Dentistry. Several current students have stepped up to the plate, with many becoming Dean's Circle members.

Welcome to the following Board members as they assume their Alumni Association duties:

**Steven Morrow, SD'60, president**

**Gary Chan, SD'89, PG'91, PG'95, president-elect**

**Iris Choi, SD'10, Century Club chair**

**Ken Fowler, SD'84, treasurer**

**Dyonne Nick-Strilaeff, BS'04, RDH, member**

**Byron Moe, SD'64, member**

**Thor Bakland, SD'62, MBA, member**

**Cara Corn, BS'07, RDH, member**

**Ben Sayler, SD'84, member**

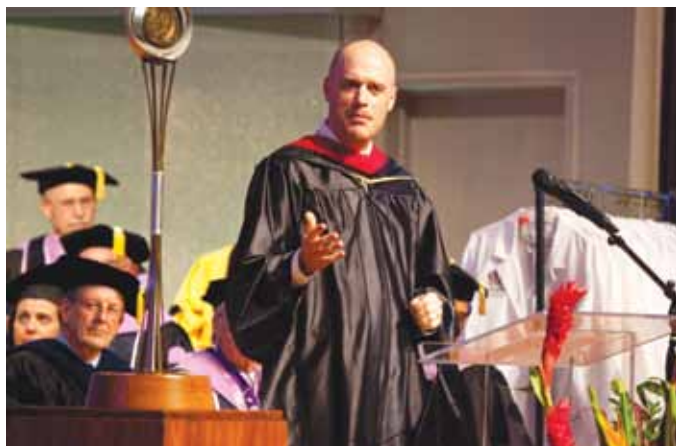


*The LLUSD Alumni Association reviews reports of the previous year's actions.*



## *Alumni Student Convention 2012—dedication service*

Since 1996, in a tradition suggested by then fourth-year dental student Polly Sprague-Nichols, late on the Friday afternoon of each annual School of Dentistry Alumni Student Convention there is a dedication service for the first year and graduating class students. As gifts from the School's Alumni Association, first-year Doctor of Dental Surgery, Dental Hygiene, and International Dentist Program students are presented, one-by-one, a



*Michael Knecht, MDiv, project manager, Department of Mission and Culture, Loma Linda University Medical Center, presented the dedication message.*

leather-bound Bible embossed with the student's name; while the graduating class members from each of the School's programs also take the platform individually to receive (and don) a white coat embroidered with the student's name and the School's logo.

In an expansion of this tradition, the 2012 dedication ceremony included the presentation of personalized Bibles to nine new School of Dentistry faculty members.

This year's dedicatory homily was presented by Michael

Knecht, MDiv, project manager, Department of Mission and Culture, Loma Linda University Medical Center. "Do the things that make you proud," said Pastor Knecht, in a brief address that focused on the story of Eddie "the Eagle" Edwards, Britain's greatest ski jumper, and his last place finish in that event at the Winter Olympics of 1988.

Aaron Tenzer (dentistry class of 2012), credited with 463 local and international service learning hours, was the



*Special music was provided by (L-R) Elizabeth Ordelleide, D4 (piano), alumnus Andrew Ordelleide, SD'08 (violin), and Douglas Baasch, D2 (cello).*

recipient of the Award for Christ-like Service presented by Mike Boyko, SD75-A, MPH, assistant professor, department of oral and maxillofacial surgery.

The ceremony was graced musically with Felix Mendelssohn's Andante con moto, Piano Trio in D Minor, through the artistry of LLUSD alumnus Andrew Ordelleide, SD'08 (violin), and School of Dentistry students Douglas Baasch, D2 (cello), and Elizabeth Ordelleide, D4 (piano).



*Dentistry class of 2012 white coat recipients (L-R) Andrew Elmarsi, Scott Ellis, and Mo Dossantos.*



*Class of 2012 dental students in their white coats*





*Aaron Tenzer, dentistry class of 2012, receives the Award for Christ-like Service from Dr. Mike Boyko.*



*Chanise Bragg, dental hygiene class of 2012, receives congratulations and a white coat from Steven Morrow, SD'60, MS, professor, endodontics, and director, patient care services and quality assurance.*



*Dave Srikureja, D4 dental student, holds his white coat as classmates applaud the motorcycle accident victim's perseverance. His wife, Alexis (left) and Tania Kurunathan, secretary, Student Affairs, assisted as he received his coat.*



*Sara Cheek, dental hygiene class of 2013, receives her Bible as in the background her classmates, class chaplain Mone Citró (left) and class president Angela Hemenway (right), assist.*



*Class of 2015 dental student Ryan Becker with his Bible*



*The 2012 Alumni Student Convention dedication service drew a large crowd of loved ones, friends, and well-wishers.*

## Alumni Student Convention number 53—the banquet

Steven Morrow, SD'60, MS, professor of endodontics and director of patient care services and clinical quality assurance, welcomed the attendees to the Fifty-Second Annual Alumni Student Convention with humor: "Look around you; have you ever seen such a gorgeous and handsome group of people?"

To the honored (and fifty-year) class of '62, Dr. Morrow asserted that 1962 was a very good year—citing 28-cent per gallon gas, \$100 average rent, and typical new car prices around \$3,000.

There was plenty of good news. The members of the Class of 1962 was represented by 32 of their original 56 members. To express their appreciation and generosity to the School, class spokesperson Dr. Don Beglau presented a gift totaling \$411,434, which included a large, planned gift. This generous and cohesive class—with five Dean's Circle members and cumulative class contributions to the School of over \$900,000—cruised together from New York to Quebec and back in October 2011, as reported previously in this journal (Winter/Spring 2012, 23:1, pp. 12, 13).

On behalf of the School of Dentistry, Dean Charles Goodacre, SD'71, MSD, also accepted contribution checks from the classes of 1967 and 1972 in the amounts, respectively, of \$117,295.00 and \$118,852.88.

Following a memorial video of those members of the class of '62 who have passed away, Dr. Morrow presented Senator William Emmerson, SD'80, MS'82, the Distinguished Alumnus of the Year Award for 2012. A history and political science major at La Sierra University, Dr. Emmerson's earliest career track found him working as an aide to Congressman Jerry Pettis and then as a staffer for the State Assembly minority leader in Sacramento, before pursuing what Dr. Morrow called "a real job" at the Loma Linda University School of Dentistry, from which

he earned a DDS degree in 1980 and an MS in orthodontics two years later. Dr. Emmerson then established and maintained an orthodontic practice in Hemet, California, for 26 years.

When he was no longer able to ignore his interest in politics, Dr. Emmerson ran successfully for the California

State Assembly's 63<sup>rd</sup> District in 2004; and when he was term limited in 2010, he won the State Senate seat for District 37, geographically California's largest district and one that includes his dentistry alma mater.

In presenting Senator Emmerson with the School's Distinguished Alumnus Award, Dr. Morrow said: "Assemblyman and Senator Emmerson has been, and will continue to be, a friendly voice in Sacramento for health care in California. He has authored legislation that has significantly impacted both health care providers and recipients over the past eight years. He has received numerous awards from

state law enforcement and health care organizations."

Clelan (Butch) Ehrler, SD'68, MS'71, a sometime golfing partner of Senator Emmerson, couldn't let him leave the podium without presenting him with the "much deserved award" of a "Big Daddy Driver," that hides a built-in weed eater with which to improve the golfer's lie, when "you hit your usual drive with your regular driver into the rough, deep rough, weeds and bushes."

The highlight of the evening featured a video about, and then an inspiring personal appearance by, 95-year-old Louis Zamperini: Olympic distance runner, Second Lieutenant Army Air Corpsman, Japanese prisoner of war, PTS victim, recovered alcoholic, 55-year husband, and inspirational Christian speaker.

Sitting in his wheelchair under his red USC Trojan's cap, most of Mr. Zamperini's remarks focused on his



*Steven Morrow, Alumni Association president, served as Alumni Student Convention banquet master of ceremonies.*

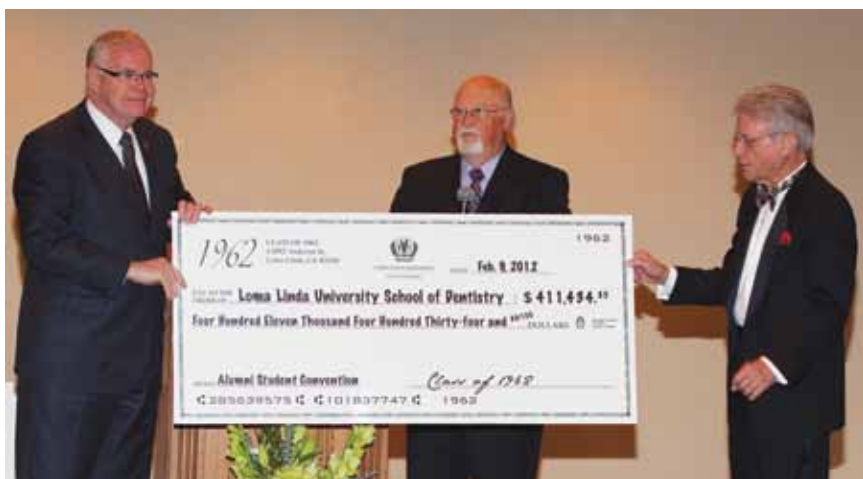




*Lee Crane, SD'62, greets a classmate.*



*Lloyd Stoll, SD'62 and Willis Schlenker, SD'57, MS'80*



*Dean Goodacre, Don Beglau, SD'62, and Dr. Morrow display the class of '62's very large donation.*



*Senator William Emerson holds his Distinguished Alumnus Award.*



*Dr. Morrow holds the mike for Butch Ehrler, SD'68, MS'71, as he explains the advantages of the "Big Daddy" driver.*



*Louis Zamperini, banquet speaker, provokes a laugh.*





#### Honor class of 1962

*Back row (L-R): Richard Taggart, Don Beglau, Stuart Mott, Thor Bakland, Lee Crane, Jim Jacobson, Howard Sprague, Don Young, Merritt Logan, Lorrell Smick, Dean Bonlie*

*Third row (L-R): Billy Hover, Lloyd Stoll, Ed Cowan, Veryl Drury, Al Lewis, Dale Warren, Dick Griswold, Larry Shipowick, Dallas Williams, Earl Brenneise*

*Second row (L-R): J. William (Billy) Burks, Gerald Alderson, M. Eugene Lysinger, Larry McEwen, Robert Huffer, Frank Godfrey, Jr.*

*Front row (L-R): Herman Montgomery, James (Jim) Alexander, Tom Scott*

internment and torture during World War II, when the Japanese captured him and a comrade in the Marshall Islands, after the two had spent 47 days in the ocean following the ditching of their plane. But most important was how he recovered from post-traumatic stress induced alcoholism when his wife persuaded him to attend a Billy Graham campaign. Zamperini later met Billy Graham, who helped him launch a career as an inspirational Christian speaker.

Alumni Student Convention banqueters were most inspired by Zamperini's description of his return to Tokyo in 1950 to tell many of the guards who tormented him, now war criminals held in Sugamo prison, that he had forgiven them, and that, most importantly, Christ had forgiven them.

For his 81st birthday in January 1998, Zamperini ran a leg in the Olympic Torch relay for the Winter Olympics in Nagano, Japan.

Just a few months before his appearance at the School of Dentistry's Alumni Student Convention, Zamperini was awarded a Doctor of Humane Letters degree by Bryant University. The next day, May 21, 2011, he threw out the ceremonial first pitch before the Red Sox-Cubs game at Fenway Park in Boston.

Alumni banquet attendees departed the event fortified in body and spirit.

## Joni Stephens, Dental Hygiene chair emeritus, retires

Joni Stephens, EdS, MS, DH'69, has earned emeritus status at Loma Linda University's School of Dentistry, having worn many hats since she arrived 45 years ago as a dental hygiene student.

A professional dental hygienist, a professional educator and administrator, and a professional researcher, she distinguished herself in each role. Selected upon graduation with the dental hygiene class of '69 to undertake a teaching career, Professor Stephens pursued a deliberate route toward her areas of expertise. She completed a master of science degree in dental hygiene education at Columbia University in New York and began teaching while studying for an educational specialist degree at Loma Linda University La Sierra.

Professor Stephens has been called "playful," "bouncy," "effervescent," and "a dynamo." Evaluating her performance, Dean Charles Goodacre noted that she has spent "countless hours toward making research educational, fun, and consequential." She can look calmly at a student group's grandiose (read "unworkable") research proposal and, through a series of questions, rescue the investigation often into award winning viability. Underlining her competence is the students' award record for research. During the past 22 years that the California Dental Association has sponsored competition at its annual meeting, Loma Linda dental students took first place awards 18 times, second place eight times, and third place 15 times. Dental hygiene students won 11 first place, 10 second place, and 10 third place awards. These students also frequently achieved award status in national competitions.

Professor Stephens' research interests were guided by circumstance in 1985 when she was a patient in radiation therapy. In her typically energetic interaction with other patients, she learned that many who were receiving head and neck radiation were reporting intraoral discomfort. Chlorhexidine rinses, not approved by the FDA at the time, were available for research purposes only. Working with Dr. Jan Egelberg, director of the advanced education program in periodontics, she developed a protocol testing the use of chlorhexidine rinses to address gingivitis and intraoral

ulcerations related to the patients' therapy. The positive results established the routine use of chlorhexidine rinses for such patients.

Her subsequent research, recognized when she received the School's Distinguished Research Award in 2011, has covered broad areas. Topics on anesthesia, dental materials, medically compromised patients, tongue piercing, breath odor, contamination in water lines and in instruments indicate her sustained concern with oral health. In other studies she contributed to dental education literature, e.g., an evaluation of a research grading rubric and the identification of predictors for national board results.

Her research skills placed her as the only female on the board of LLUSD's Center for Dental Research when it was established in 1999. Her research expertise, which had drawn her into a supervision role for many student research projects as well as propelling her own projects, enriched dental hygiene students' introduction to research and research writing classes. Ultimately, she also developed courses in research principles and oral medicine for dental students.

Professor Stephens' classroom performance has earned her a series of awards, among them three as Teacher of the Year (voted by graduating dental hygiene students in 2003, 2004, and 2006), the School's Alumna of the Year (1988), the Zapara Award for Teaching Excellence (1996), the University's Alumna of the Year (2004), and the School's Teacher of the Year Award (2007).

Serving as chair of the Dental Hygiene Department (1982-1993) for ten years, and again as interim chair during the absence of Chair Kris Wilkins, SD'80 (2006-2008), she helped create OSCE's (Objective Structured Clinical Examinations) for dental students—a broad-based evaluation of skills administered before the students began their clinical experience. She was also instrumental in negotiating with G. Hartzell and Sons to establish the Hartzell Scholarship fund. She has worked actively in the accreditation process on campus as well as participated in site visits for the Commission on Dental Accreditation. Professor Stephens' impact on the department received accolades during the



*Professor Stephens has been called "playful," "bouncy," "effervescent," and "a dynamo."*





*A retirement gift to ease Joni's transition to the links*



*Joni enjoys a kosher toast between Department of Dental Hygiene chair Kris Wilkins, DH'80, her husband, Ron, and Brian Marshall, SD'83.*



*Table decor matched the occasion.*



*A moment was taken to express thanks for Joni's service.*

2012 dental hygiene banquet, where colleagues and alumni honored her 2012 retirement with the establishment of the Joni Stephens Scholarship Endowment. Spearheaded by Professor Stephens' classmates (SD'69), the fund already contained a significant sum when announced at the banquet.

A recent student evaluation that began with the assertion that Professor Stephens "is better than excellent. I appreciate how willing she is to help at any moment!" ended with the



*Joni with Ron Dailey, PhD, executive associate dean, and her twin*

directive: "Don't ever let her go!" The School has already notified Professor Stephens of opportunities for her to guest lecture in the future.

With her retirement in place, Joni also plans with her husband, Ronald, a nurse anesthetist whose retirement plans coincided with hers, to participate in volunteer projects that allow them to use their skills side by side.



# CAD/CAM technology: application to complete dentures

Mathew T. Kattadiyil, DDS, MDS, MS, and Charles J. Goodacre, DDS, MSD

Computer Aided Design – Computer Aided Manufacturing (CAD/CAM) technology has already made significant strides in the field of dentistry. CAD software renders the geometrical shape of an object, and the CAM software directs the fabrication process. Applications of CAD/CAM in dentistry include fabrication of inlays, crowns, fixed partial dentures, and implant abutments/prostheses.

Recently, CAD/CAM technology has become commercially available for fabrication of complete dentures through the introduction of AvaDent™ digital dentures by Global Dental Science, LLC. It is a system by which impressions, interocclusal records, and tooth selection can be completed in one appointment. The dentures are then fabricated using CAD/CAM technology and placed in the second appointment.

Describing early concepts and clinical methods used to acquire the necessary morphological data for CAD/CAM complete dentures, Goodacre *et al*<sup>1</sup> wrote, “[W]hen the CAD/CAM technology for fabricating complete dentures becomes commercially available, it will be possible to scan the denture base morphology and tooth positions recorded with this technique and import those data into a virtual tooth arrangement program where teeth can be articulated and then export the data to a milling device for the fabrication of the complete dentures.” With the introduction of commercially available CAD/CAM denture systems like AvaDent™ and Dentca, Inc., the era of digital complete dentures has arrived. The purpose of this article is to identify potential advantages of CAD/CAM complete dentures and describe the authors’ clinical experience with the AvaDent™ digital denture system.

The CAD/CAM process offers significant advantages to the dental practitioner and the patient. It is possible to record all the clinical data for complete dentures in one appointment (one to two hours). Clinical chair time is reduced considerably, thereby providing the opportunity for a more cost-effective set of appropriately accurate complete dentures. A repository of digital data remains available that allows for more rapid fabrication of a spare denture, a replacement denture, or even a radiographic or surgical template that aids in the planning and placement of dental implants in the future. Additionally, because the digital data are associated with a specific practitioner, it is more likely that patients will return to the dentist who fabricated their first digital denture when future treatment is needed. Because the denture base is fabricated by machining, polymerization shrinkage of the resin is eliminated, and the fit of the denture base is superior to that of conventionally fabricated denture bases. Due to the method of processing the

acrylic resin for denture bases at fifty times the conventional processing pressure, there is less porosity; and initial research reveals that the AvaDent™ denture base material may have less C. Albicans adherence.

## CLINICAL TECHNIQUE

Conventionally fabricated complete dentures frequently use a five-step appointment process:

1. Making preliminary impressions
2. Making final impressions
3. Recording jaw relation
4. Trial placement of wax denture pattern
5. Placement/insertion of complete dentures

The AvaDent™ digital denture process is designed to capture the necessary information for the fabrication of complete dentures in one appointment without compromising prosthesis quality. The entire digital CAD/CAM process consists of the following appointments:

1. Impressions, jaw relation records, occlusal plane orientation, tooth mold and shade selection, and maxillary anterior tooth positioning record
2. Placement of dentures

## Appointment 1

### Customizing stock trays

The procedure involves the fabrication of a putty cast formed by pressing mixed poly (vinyl siloxane)



Figure 1: Putty cast created by adaptation to the old maxillary denture



*Figure 2: Stock tray being tried on maxillary putty cast*



*Figure 2a: Stock tray being tried on mandibular putty cast*

putty into the intaglio surface of the patient's existing dentures (Figure 1). If these dentures are unacceptable or unavailable, then diagnostic casts can be generated from a preliminary impression.

Figures 2 and 2a show the thermoplastic tray selection based on the arch size for the maxillary and mandibular cast respectively.

The tray is softened by immersion in a water bath set at 80°C (180°F) for approximately one minute and adapted to the putty cast by pressing the material into contact with the



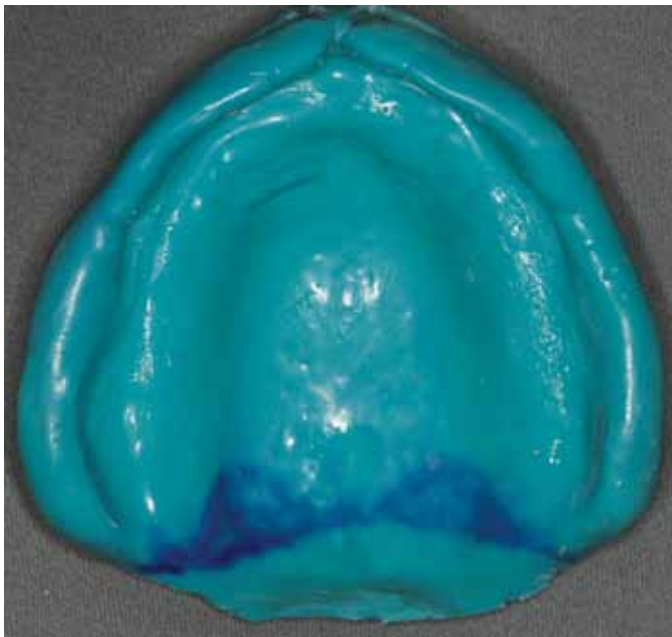
*Figure 3: Customized maxillary stock tray*

cast or stretching the material to cover required areas. The adapted trays can then be adjusted using acrylic resin burs or a sharp scalpel to remove overextended areas.

After the trays have been adapted on the putty cast, they are placed in the patient's mouth to evaluate them for areas of overextension or underextension and adjustments made as needed. It is important that the maxillary tray extend posteriorly to cover the area of the vibrating line and the pterygomaxillary fissures (hamular notches) (Figure 3). It is also important that the mandibular tray cover the retromolar pads and available areas of the lateral throat form (retromylohyoid area). Coverage of these areas requires determining the location of the vibrating time by having the patient pronounce the word "Aah" or by coughing. Determining the extension of the mandibular tray into the retromylohyoid area requires placing the head of a dental mirror into this area and asking the patient to wet his/her lips with the tongue to determine the degree of displacement of the mirror by the tongue musculature.

### **Making maxillary and mandibular final impressions**

After customizing the impression trays and confirming appropriate coverage and adaptation in the patient's mouth, tissue stops should be added to the trays. After applying the appropriate adhesive, AvaDent™ registration or a fast setting interocclusal record material is applied as four dabs to distributed areas on the maxillary tray and three areas of the mandibular tray. The trays are then seated in the patient's mouth and oriented so that the trays are not pressed into contact with the soft tissue, thereby leaving space for the subsequent border molding and wash impression material. The AvaDent™ border molding impression material, or a medium body poly (vinyl siloxane) impression material, is then used to border mold the maxillary and mandibular trays employing the method used with conventional custom trays.



*Figure 4: Maxillary final impression*



*Figure 5: Mandibular final impression*

The border molded trays are inspected. If there are areas where the tray has contacted the mucosa, these areas are removed using an acrylic resin bur. If there are defects in the border molding, adhesive is applied to these areas and additional border molding material applied so that the border molding can be repeated in those areas.

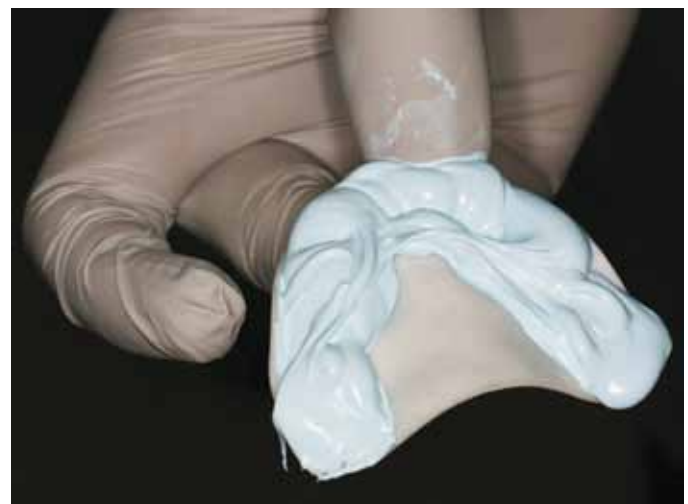
Final impressions of the maxillary and mandibular arches are made using either the AvaDent™ impression material or a light-body poly (vinyl siloxane) impression material (Figures 4 and 5). The area of the posterior palatal seal is identified by marking the vibrating line and the areas located anteriorly where the seal can be positioned based on the areas of compressibility and the depth to which the tissue can be compressed in these areas. The areas are marked and then transferred to the impression. The



*Figure 6: Maxillary AMD showing wrench used to move the adjustable lip support flange on AMD*



*Figure 7: Mandibular AMD with recording plate and maxillary AMD with adjustable stylus*



*Figure 8: Maxillary AMD filled with recording material*

traditional method of scoring the definitive maxillary cast to establish the posterior palatal seal area is not used with CAD/CAM maxillary dentures because there is no physical cast. It is suggested that wax be applied to the appropriate areas of the impression at a height that corresponds to the desired depth of the compressible tissue. Because there is no polymerization shrinkage of the base due to its being milled from pre-polymerized resin, posterior palatal seals are not always needed, unless there is considerable moveable tissue present in the posterior palate and over the edentulous





**Figure 9:** Maxillary and mandibular AMD placed fairly parallel to each other

ridges. When needed, it is proposed that the posterior palatal seal be such that it is one-half or less of the tissue compressibility depth.

#### Jaw relation records

The AvaDent™ denture technique uses an Anatomical Measuring Device (AMD) that can be adjusted to the desired occlusal vertical dimension and then used to maintain that dimension while centric relation is recorded using the incorporated gothic arch tracing plate and stylus. The AMD is also used to determine the correct amount of upper lip support, the position of the maxillary six anterior teeth, and the desired mediolateral orientation of the occlusal plane. The AMD consists of a maxillary tray with a centrally located adjustable stylus and an adjustable lip support flange (Figure 6) and a mandibular tray with a flat occlusal tracing plate (Figure 7). In addition, there



**Figure 10a:** Confirming occlusal vertical dimension



**Figure 11:** Maxillary AMD showing adjustable lip support flange



**Figure 10:** Occlusal vertical dimension being adjusted

is an occlusal plane orientation ruler that can be inserted into the maxillary AMD and used to record the alignment

of the maxillary AMD with the interpupillary line to make it possible for the computer program to align the maxillary teeth with the interpupillary line.

The maxillary AMD is filled with AvaDent™ registration material (Figure 8) and seated to record the ridge morphology of the maxillary arch as well as the portion of the palate covered by the AMD. There should be sufficient material to stabilize the tray, or the process should be repeated.

The mandibular tray with the recording plate is then filled with the recording material and used to stabilize the tray in the patient's mouth. Care should be taken so that the maxillary and mandibular AMDs are positioned to be fairly parallel to each other and the maxillary stylus is located over the anterior aspect of the mandibular AMD tracing plate (Figure 9), or the process should be repeated.

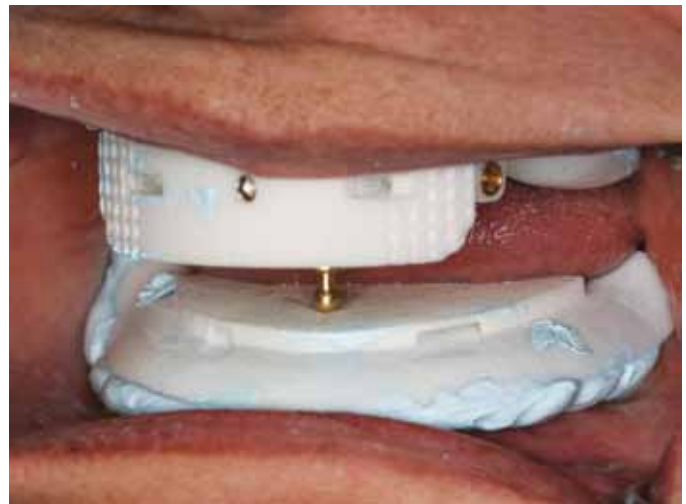
The occlusal vertical dimension is determined. If the existing dentures provide an appropriate occlusal vertical dimension, they can be used to record the distance between marks on the face when the dentures are in occlusal contact. If not, conventional methods should be used to determine the desired dimension. The rest vertical dimension, tonicity of the musculature, facial proportions, and biofeedback can then be used to confirm appropriate occlusal vertical dimension (Figures 10, 10a). The adjustable screw in the maxillary tray is turned clockwise to extend the stylus, or counterclockwise to retract the stylus so that it contacts the mandibular tracing plate at the appropriate vertical dimension (Figure 10). Once the vertical dimension has been established, the adjustable screw in the maxillary AMD (Figure 11) is used to extend or retract the upper lip support flange so that it provides adequate lip support. The patient is given an opportunity to assess the adjustments by viewing his/her lips in a mirror.

Recording centric relation is accomplished by making an intraoral gothic arch recording. While the stylus on the



**Figure 12: Gothic arch recording**

maxillary AMD can produce markings on the mandibular plate when jaw movements are made, it may be helpful to place a marking medium on the tracing plate by spraying the plate with an aerosol marking medium or by rubbing articulating paper over the plate and transferring the pigment from the paper to the plate. The gothic arch tracing is made by instructing the patient to move the lower jaw forward and backward while maintaining the maxillary stylus and mandibular AMD tracing plate in contact. The patient is then instructed to move the jaw to one side, making a lateral excursive movement from the centric relation position, and then to the contralateral side. The stylus on the maxillary tray scribes lines on the mandibular recording plate, and if the process is done correctly, an arrow point or gothic arch recording should be clearly seen (Figure 12). The apex of the



**Figure 13: Stylus seated in the recess created at the apex**

recording denotes the centric relation position. A recess is then made in the tracing plate that approximates the tip diameter of the stylus at the apex of the gothic arch arrowpoint using an appropriately sized round bur or acrylic resin bur, and the mandibular tray is reinserted in the patient's mouth. The patient can then move his/her mandible or be guided to the position where the maxillary stylus engages the recess and maintain the centric relation position (Figure 13).

#### **Occlusal Plane Orientation, Maxillary Anterior Mold and Shade Selection, and Maxillary Anterior Tooth Positioning**

To record the occlusal plane orientation, the AvaDent™ ruler is inserted in the maxillary AMD (Figure 13a) and the anterior adjustable portion moved until it is aligned parallel to the imaginary interpupillary line connecting the centers of the pupils of the eyes (Figure 13b). The angle is noted and recorded on the laboratory work authorization form. This will assist the manufacturer in orienting the

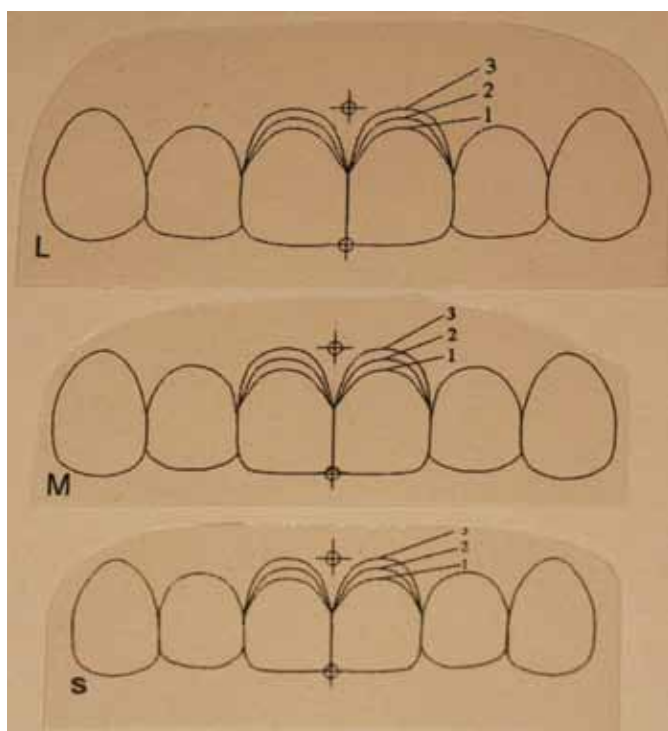


**Figure 13a: AvaDent™ ruler attached to the Maxillary AMD**





**Figure 13b:** Determining the appropriate occlusal plane with AvaDent™ orientation ruler



**Figure 14:** Teeth selection mold tabs



**Figure 14a:** Determining incisal-cervical length of denture teeth using old denture as a guide

mediolateral occlusal plane to parallel the interpupillary line.

The next procedure in this first appointment is to mark the midline on the lip support flange as well as the smile line for the maxillary anterior teeth based on the curvature of the lower lip during smiling. The size of the maxillary anterior teeth is determined by overlaying the three available tooth size templates on the teeth in the existing denture, assuming the existing denture tooth size is desirable to the patient (Figures 14 & 14a). If not, the tooth template is selected that matches the patient's desired tooth size. Also, by overlaying the maxillary tooth templates on the existing denture, the position of the pink denture base resin around the necks of the teeth can be selected from the locations present on the tooth template. To serve as a guide during denture fabrication, flowable composite resin is applied to the inside of the selected tooth mold template. The tooth mold template



**Figure 14b:** Luting selected tab with flowable light-cured composite resin



**Figure 15:** Injecting recording material to capture centric relation

is then positioned carefully over the midline and smile line markings and placed in the exact location where the denture teeth should be arranged. The resin is then light polymerized to affix the template in position (Figure 14b).



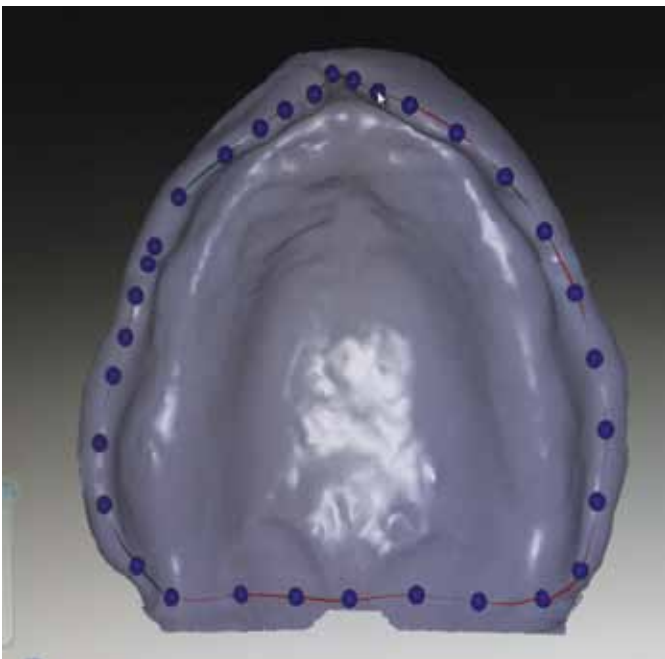
*Figure 15a: Jaw relation record with mold tab*

AvaDent™ registration material (or another interocclusal record material) is injected into the space between the maxillary and mandibular arches, with the jaw stabilized in centric relation (Figure 15). It is important that a generous amount of material be used so that it flows around the tracing plate and stylus and firmly attaches the maxillary and mandibular AMDs together. The interocclusal record assembly is then removed and inspected to confirm that the stylus is in the centric relation recess and that the AMDs are firmly interlocked (Figure 15a). After following normal disinfection protocol, the final impressions and connected AMDs (along with the completed laboratory authorization form) are mailed to the Global Dental Science, LLC, producer of AvaDent™ digital dentures, along with any special instructions.



*Figure 17: Virtual teeth arrangement*

The company processes the impression and the AMD so that they can be more easily recorded during the laser scanning process. The laser scans of the impressions and connected AMDs are made and the morphologic data merged so as to establish the occlusal relationship of the complete arch data obtained from the complete arch impressions. The denture borders are identified and marked using the computer software (Figure 16), teeth are set virtually so that they occlude properly and have the desired occlusal plane orientation (Figure 17), and the morphology of the denture base is established. Once the denture has been designed virtually, the denture base is milled with recesses that accurately fit each denture tooth (Figures 18 and 18a), and the teeth are bonded with a proprietary



*Figure 16: Determining (virtually) the borders of the maxillary complete denture*



*Figure 18: Milled CAD/CAM denture base*



bonding mechanism. The denture base can be fabricated from different choices of base material, and different options are available for the denture teeth.

## Appointment 2

### Placement

The placement and post-placement adjustments of CAD/CAM complete dentures are similar to the placement of conventional dentures. Because the denture base is made from a traditional resin material, implant attachments, if

any, as in the patient situation illustrated, can be picked up intraorally using conventional techniques. Figure 19 shows the frontal smile view of a patient wearing a maxillary complete denture and a mandibular implant overdenture fabricated by the AvaDent™ digital denture system. The patient is seen as needed for routine follow-up and maintenance appointments.

## CONCLUSIONS

The use of CAD/CAM technology to fabricate complete dentures has positive benefits for both the patient and practitioner. The ability to reduce the time required to provide patients with dentures and the potential to reduce the cost of care for patients while still providing quality dentures using state of the art dental materials is promising. The clinical records can be obtained in one appointment so that definitive prostheses are available at a second appointment.

## References

1. Goodacre CJ, Garbacea A, Naylor WP, Daher T, Marchack CB, Lowry J. CAD/CAM fabricated complete dentures: concepts and clinical methods of obtaining required morphological data J Prosthet Dent 2012 Jan;107(1):34-46.



Figure 18a: Denture tooth placed in the milled recess



Figure 19: Final maxillary and mandibular CAD/CAM complete dentures in place



Mathew T. Kattadiyil, DDS, MDS, MS, is director, Advanced Specialty Education Program in Prosthodontics.



Charles J. Goodacre, DDS, MSD, is dean of the School of Dentistry

# CAD/CAM technology: the quiz

Circle the letters of the correct answers.

- Digitally produced denture technology provides these advantages:
  - A rapid fabrication of replacement dentures
  - A digital data repository
  - Zero processing errors of the denture base
  - Reduced porosity for the denture base
  - All of the above.
  - a, b, & c.
- To make dental impressions, the AvaDent™ technique uses
  - Sodium alginate
  - Polyether
  - Condensation-cured silicones
  - Poly (vinyl siloxane)
- To determine the appropriate occlusal vertical dimension, one can use the following as guidelines,
  - Rest vertical dimension
  - Tonicity of the musculature
  - Facial proportions
  - Biofeedback
  - All of the above
  - a, b, & c
- Compared to traditional procedures, the AvaDent™ CAD/CAM procedures, are (indicate all correct answers)
  - Equal in precision
  - Superior in precision
  - Comparable in cost
  - More costly
  - Less costly
  - Time saving
  - Time consuming
- One of the reasons for scoring the maxillary definitive cast to delineate the post-palatal seal area is to compensate for linear and volumetric shrinking during the conventional curing process.
  - True
  - False
- The Anatomical Measuring Device (AMD) is used to create an arrow point or gothic arch recording and to correctly orient the occlusal plane.
  - True
  - False
- The maxillary and mandibular trays of the AMD should be inserted divergent to each other for an accurate recording.
  - True
  - False
- It is possible to reline the AvaDent digitally processed CAD/CAM denture in a conventional manner.
  - True
  - False
- The apex of the gothic arch recording indicates the centric relation position.
  - True
  - False
- The AvaDent CAD/CAM denture base is processed at approximately half the conventional curing pressure.
  - True
  - False

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Name \_\_\_\_\_ DDS/DH Lic.# \_\_\_\_\_

Date \_\_\_\_\_ Mailing address \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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**After answering the questions and completing this form, mail the entire sheet (or photocopy) to:**

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Cost \$25.<sup>00</sup> Please circle: MASTERCARD VISA DISCOVER Credit Card No: \_\_\_\_\_

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## Warm welcome for LLUSD at CDA

The annual meetings of the California Dental Association held during the first weekend of May 2012 in Anaheim, California, was a meaningful event for the School of Dentistry's students, faculty, and alumni. Two of the School's graduating senior dental students were singled out for special honors as were two alumni, one a faculty member.

During the International College of Dentists/American College of Dentists joint breakfast, Vanessa Browne was presented

with the Outstanding Student Leader Award "for outstanding leadership, scholastic performance, and potential for impact on the profession of dentistry while a dental student at the Loma Linda University School of Dentistry."

Now Dr. Browne, Vanessa was particularly interested to hear Dr. Alvin Rosenblum,

DDS, professor of clinical dentistry, Ostrow School of Dentistry of USC, describe how in 2007 some of his students, concerned with issues in dental ethics, formed a club on the topic. Its bylaws soon became the basis for the Student Professionalism and Ethics Association. Its standards are now accepted in more than half of the 62 accredited dental schools in the United States.

Meanwhile, Michael Flewelling was honored at the annual luncheon of the Southern California chapter of the Pierre Fauchard Academy with the Pierre Fauchard Academy Student Undergraduate Certificate of Merit "for outstanding and dedicated service to the profession by a dental student," emphasizing "the student's contribution to the dental literature."

Two other more long-standing LLUSD alumni also were honored at the Pierre Fauchard Academy Foundation luncheon.

Nominated for the honor by the dentistry class of 2012, John Won, SD'05, assistant professor, Department of

Restorative Dentistry, was presented the Pierre Fauchard Academy Teacher of the Year Award for 2012. When he was in school, Dr. Won found the best way for him to study "was to try to teach someone else, as it would help me learn the material better." This award is an "inspiration to continue to work harder to help my students become the hands of Christ to their patients," he adds.

Ronald E. Fritz, SD'72, was inducted as a fellow of the Pierre Fauchard Academy. Fellowship is by invitation



Vanessa Browne, SD'12, poses with her Outstanding Student Leader certificate.



L-R: Ronald Fritz, SD'72, Michael Flewelling, SD'12, and John Won, SD'05

only, and "candidates for active fellowship shall be ethical dentists and shall have made outstanding contributions to the art and science of dentistry or to society." No doubt Dr. Fritz's frequent volunteering of his professional services to underserved communities around the world made him a welcome addition to the Academy fellowship.

Taking its name from Pierre Fauchard (1678-1761), the father of modern dentistry, the Academy was established in 1936 to acquire and maintain control by the dental profession over its own literature and assure its independence from commercial interests. Its stated mission "is to consistently focus on professionalism, integrity, and ethics worldwide, by our own conduct as worthy role models, by the advancement of dentistry to the highest level, by supporting and honoring colleagues for their distinguished work, research, contributions, and public service, and by providing excellence in programs, education, and leadership in oral health care."

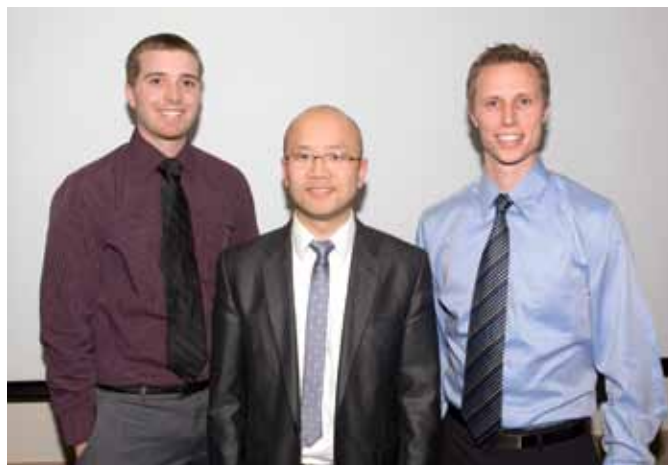
And then the dental and dental hygiene students from the classes of 2013, who took first, second, or third place at the LLUSD table clinic competition, did very well at the CDA's competition among the student researchers of California's six dental schools (see following four pages).



**Dentistry, Clinical, first place, LLUSD**  
*Robert Judd, Kevin Murray, Timothy Mathews*

**Comparative Analysis of Root Length Using MRI and CBCT**  
 MENTOR: Dr. V. Leroy Leggitt

*CDA Scientific Category, 1st place*



**Dentistry, Clinical, third place, LLUSD**  
*Michael Hann, Tae (Adam) Yang, Joel Davis*

**Oral Diagnosis for the iPhone**  
 MENTOR: Dr. Heidi Christensen



**Dentistry, Clinical, second place, LLUSD**  
*Gregory Wright, Nicole Morris, Todd Wentland*

**Rotational Force Required in Uncomplicated Exodontia**  
 MENTORS: Dr. Neal Johnson, Dr. Wayne Tanaka

*CDA Clinical Category, 2nd place*



**Dental Hygiene, Clinical, merit recognition, LLUSD**  
*Laurissa Ward, Joselyn Garcia, Brianna Pickens, Chanise Bragg*

**The Effect of In-office Tooth Whitening Treatment on Oral Health Care**  
 MENTOR: Dr. Sean Lee





Dentistry, Laboratory, first place, LLUSD  
*Brian Goodacre, Jason Mashni, John Yankee*

**Effect of a Computer-assisted Angulation Sensor in the Placement of Dental Implants**

MENTORS: Drs. Charles Goodacre, Jaime Lozada, and John Won

**CDA Clinical Category, 1st place**



Dentistry, Laboratory, third place, LLUSD  
*Peder Nordberg, Rajesh Swamidass, Anthony Craig*

**Measuring the Parallelism of Dental Implants Placed by Clinicians with Varying Degrees of Experience**

MENTOR: Dr. John Won

**CDA Clinical Category, 3rd place**



Dentistry, Laboratory, second place, LLUSD  
*Rachel Tambunan, Eric Mee, Jayna Sekijima*

**Comparative Study of Effectiveness of Three Plant Extracts in Inducing Cell Death in Tumorigenic Cells**

MENTOR: Dr. Neal Johnson

**CDA Clinical Category, 3rd place**



Dental Hygiene, Laboratory, first place, LLUSD  
*Jeanne Gustafson, Julianne Souza, Debra Gruzensky*

**Comparison of Three Surface Disinfectants**

MENTORS: Ms. Michelle Hurlbutt, Mr. Raydolfo Aprecio, and Ms. Alisa Wilson

**CDA Research Category, 1st place**



**Dental Hygiene, Laboratory, second place, LLUSD**  
*Amanda Armand, Lindsey Sharman, Michelle Kaiser*

**Effects of Magnolia Bark Extract on Oral Bacterial Growth**

MENTORS: Ms. Michelle Hurlbutt, Dr. Brian Novy, Mr. Raydolfo Aprecio

*CDA Research Category, 2nd place*



**Dentistry, Educational, first place, LLUSD**  
*Kwang Kee Han, O Kwon, Richard Lim, John Han*

**Facts About Mini Dental Implants**

MENTORS: Drs. Wendy Gregorius and Jaime Lozada



**Dental Hygiene, Laboratory, third place, LLUSD**  
*Meghan McGee, Yatziri Ortega, Magdiel Stone*

**Effects of Manuka Honey Lozenge on Oral Bacterial Growth**

MENTORS: Ms. Michelle Hurlbutt, Mr. Raydolfo Aprecio



**Dentistry, Educational, second place, LLUSD**  
*Rhodelia (Jane) Gumangan, Soo Park, Andrea Sivavajchaipong*

**Art of Expression: What Dentists Should Know about Oral Piercings**

MENTOR: Dr. Jung-Wei Chen

*CDA Community/Education Category, honorable mention*





**Dentistry, Educational, third place, LLUSD**  
*Tiffany Beale, April Buckins, Joy Richardson*

**Correlation Between PAT scores on DAT and Performance in Single Casting Technique**  
 MENTOR: Dr. Graham Stacey



**Dental Hygiene, Educational, second place, LLUSD**  
*Kristy Glenn, Caroline Jones, Christine Kang*

**Arginine-rich Snack Foods for Dental Caries Management**  
 MENTORS: Ms. Michelle Hurlbutt and Dr. Brian Novy



**Dental Hygiene, Educational, first place, LLUSD**  
*Marisa Keightley, Lindsay Liu, Grace Culp*

**XEROSTOMIA: Getting the Information Out There**  
 MENTOR: Ms. Darlene Cheek



**Dental Hygiene, Educational, third place, LLUSD**  
*Robert Aviles, Solomon Iyesusab, Sergey Arakelyan, Sima Azimi*

**Motivational Effect of an Educational Tool that Shows the Correlation between Oral and System Health**  
 MENTOR: Dr. Barry Krall

# Commencement 2012

If anything distinguished the School of Dentistry's 2012 (and 53<sup>rd</sup>) commencement from those of other years, it was the remarks of the class presidents and the commencement speaker.

Michael Flewelling, dentistry class of 2012 president, a United States Marine, began his brief remarks with a moment of silence "to honor the men and women who have given their lives in the service of our great nation." The thrust of his message was that "despite its struggles," the dental class of 2012 "has been consistent with a Christian based whole person care approach with their patients." In fact it was to those struggles, Flewelling argued, that the success of the class was due in large part. He quoted Winston Churchill's wisdom, "The pessimist sees difficulty in every opportunity, while the optimist sees the opportunity in every difficulty." In closing, Flewelling asserted, "The class of 2012 should be remembered for its unity. We did not cross this stage as 93 individuals, but as a family who would not leave anyone lagging behind."

Michelle Kaiser, dental hygiene class president, played on the lyrics of a Brad Paisley song "Letter to Me," to draft an imaginary letter to her class while they were struggling through their dental hygiene program—a letter sent back in time to let them know that everything would be okay.

"I know you're wondering if you'll survive, but you'll make it through this and you'll see, you're still around to write this letter to me.

"You should see us all tonight."

"I'd end by saying, 'Have no fear; these are somewhere near, the best years of your life.'

"If I could write a letter to us."

Commencement speaker, Gerald Winslow, PhD, professor, School of Religion, cited a recent CDC report which stated that "most Americans' oral health status has improved over the years. Dental caries continue to decrease in the permanent dentition of youth, adolescents, and adults. Among seniors the prevalence of root caries decreased . . . Tooth retention and periodontal health improved for both adults and seniors. And edentulism among seniors continued to decline."

"Name me the profession," Dr. Winslow challenged, "that has done more to put itself out of business by promoting the health of its patients."

He went on to discuss the difference between having a job and being a professional, the difference "between making a living and a killing."

"You will be bound by a distinctive ethics code," Dr. Winslow reminded the graduating classes. "In short, you will profess something. And we will trust you because of those professions.

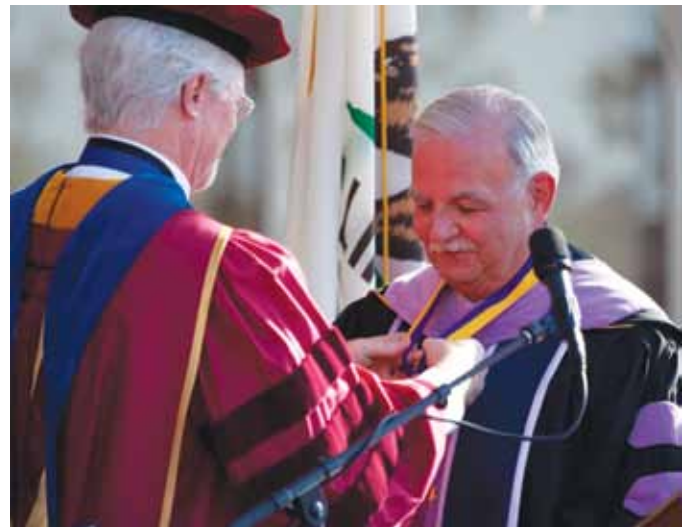
"Your profession," Dr. Winslow concluded, can be "a collaboration with the maker of heaven and earth."

## Presentation of awards

LLUSD's 2012 Commencement was the occasion for the presentation of awards to three School of Dentistry faculty. What follows are the remarks given at the presentation of each award.

## GARY GOLDEN—Teacher of the Year Award

"It is a privilege to have this opportunity to present Dr. Gary Golden as the recipient of the 2012 The Teacher of the Year Award," said Ron Dailey, PhD, LLUSD executive associate dean. "The significance of this award comes in large measure from the extensive process by which he was chosen. This selection process includes all School of



*LLUSD associate executive dean Ron Dailey bestows the Teacher of the Year Award on Gary Golden, SD'76*

Dentistry students, faculty, and the staff of Prince Hall. They all have input into choosing the award recipient, making the recommendation to the Dean a most universal and fair process.

"Dr. Golden earned his Doctor of Dental Surgery degree from Loma Linda University in 1977. He then went on to complete a general practice residency at Andrews Air Force Base in 1978 and a prosthodontic residency at Lackland Air Force Base in 1984. On this Memorial Day weekend, it is noteworthy that Dr. Golden served at military installations in Maryland, Texas, Arkansas, and California over a 19-year career and retired from the United States Air Force in 1996 with the rank of Colonel. He joined the faculty in the School of Dentistry in 1996 and was named Prosthodontics Section Chief in 2007.



"Dr. Golden is an exemplary teacher who at all times maintains excellent rapport with students by maintaining a keen interest in their learning. He has a unique facility for presenting complex and challenging material in an organized, concise and straight-forward style.

"As evidence of students' appreciation of Dr. Golden's approach to teaching, one has only to look at the consistently outstanding evaluations submitted by students over the past several years. Let me share a few examples:

- Dr. Golden is like the teddy bear grandpa I never had. I'm so glad he is part of this institution. His life and career are a testament and inspiration. He is always generous and giving of his time.
- Dr. Golden is by far one of the best professors I have had at the LLU School of Dentistry. He is very knowledgeable, presents information very well, and is very organized.
- He shows us he cares about students, presents awesome powerpoints, and answers all our questions politely.
- Dr. Golden is precise, tough and fair.
- I really appreciate how he takes time to help us understand important concepts.
- Dr. Golden is a great lecturer and a patient teacher.
- He is very good at motivating students to excel and has a wealth of personal and professional knowledge to draw from.
- Dr. Golden is inspiring, encouraging and cares about us.
- And finally, a comment expressed by multiple students: Dr. Golden is awesome!

"I can't say it any better Gary, YOU ARE AWESOME!"

#### **JOSEPH M. CARUSO—Distinguished Service Award**

"Dr. Joseph Caruso is receiving the School of Dentistry Distinguished Service award for many reasons," said LLUSD Dean Charles Goodacre, SD'71, MSD. "He has been on our faculty in either a part-time or full-time capacity since 1977. He has served as chair of the Department of Orthodontics and Dentofacial Orthopedics for the last 16 years.

"I asked him what was the most significant honor in his life, and I was expecting him to tell me about some special recognition he received. Instead, he said the most significant honor he has had was being a parent to great kids.

"Dr. Caruso has been associate dean for strategic initiatives and faculty practices since 2008, and he has been the key driving force behind the design and establishment of our Center for Dentistry and Orthodontics, the design and completion of our Dental Hygiene program in Palm Desert, and also the Innovation Center in the School of Dentistry that will open this August.

"He is truly an innovator and has numerous patents. He developed and patented the world's first ceramic bracket to improve the esthetics of braces. As a result of this development, he received the Golden Step Award from the 3M company, the award given for the greatest innovation in the medical/dental



*LLU Provost Ron Carter smiles as Dr. Joe Caruso is congratulated by Tom Reddy, DDS, of Nobel Biocare USA, for receiving the School of Dentistry's Distinguished Service Award.*

division of 3M for that year. He developed the 3D technology for making digital models to replace dental casts. Because of his foresight, Loma Linda was the first school to install and use cone beam CT scans. He was instrumental in obtaining FDA approval and the approval in the State of California for dentists to use 3D radiographic equipment. He built and wired the initial computer servers used in his department, and they were the first ones used in the school.

"He enjoys reading about engineering, physics, neuroscience, and art. He loves to determine how advancement in other fields could benefit dentistry.

"We have been the beneficiary of Dr. Caruso's special expertise for many years. It is a great privilege to present him with the School of Dentistry Distinguished Service Award."



*Dr. Wu Zhang acknowledges the applause of friends as she accepts the School of Dentistry Distinguished Research Award.*



*Dean Charles Goodacre watches as President Richard Hart presents Dr. Tom Reddy, vice president for professional relations, Nobel Biocare USA, and Mr. Thomas Olson, president & general manager, Nobel Biocare USA, with the LLUAHSC Distinguished Humanitarian Award.*

#### **WU ZHANG—Distinguished Research Award**

“Wu Zhang was born in Shanghai, China, and during her youth, when she was looking forward to an education, the cultural revolution swept through China,” Dean Goodacre began. “She, along with all students, were sent to farms and told that they would be spending their lives there. She worked on a rice farm on the second largest island in China. She would often work from 4:00 a.m. until midnight. She told me about planting rice using only her hands as there were no tools. Half her fingernails would be worn away by creating the holes in the ground with her fingers. She worked barefoot in the winters. This was a tough life that most of us can only imagine but she made the best of it, and these experiences caused her to appreciate and value opportunities in life.

“She said if you work hard toward a goal, there will be an opportunity, and if you are prepared you will be able to take advantage of that opportunity. That opportunity came when the Chinese government recognized they needed to return some of their youth to education and options other than just farming. She had been working on the farm for five years. Through recommendations from the local farmers where she worked and competitive tests, she won the opportunity to receive the education she always dreamed about. After completing her MD degree in China, she went on to complete certificates in molecular biology and advanced biochemistry at the Chinese Academy of Sciences. She then worked in the Indiana University School of Medicine Department of Biochemistry before joining the Center for Dental Research at Loma Linda. She has 143 publications, with nearly 100 of them based on her work since coming to Loma Linda in 1997.

“She told me she is most appreciative of the opportunity she has received at Loma Linda and the teamwork and support she has received. We are indeed privileged to have someone of her caliber who works hard and is self-motivated. Therefore, it is a



*Graduating dental students pause for prayer.*

special honor for me to present Dr. Wu Zhang with the 2012 Distinguished Research Award from the School of Dentistry.”

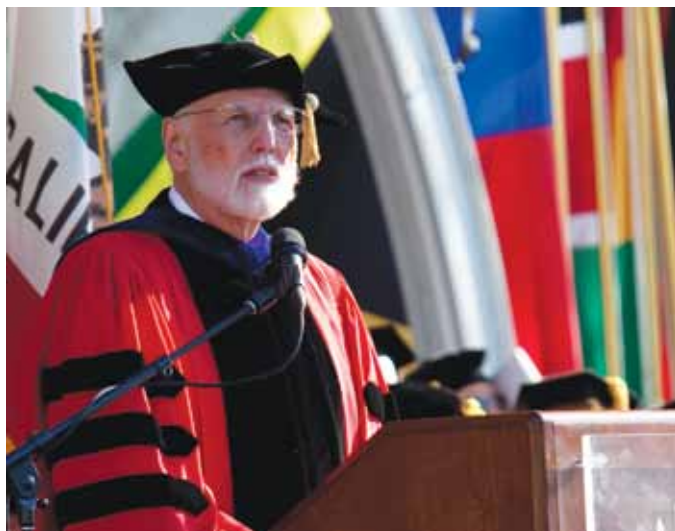
#### **NOBEL BIOCARE—Distinguished Humanitarian Award**

“It is somewhat unique for a University to present a distinguished humanitarian award to a company,” said Dean Goodacre, “but it is being done for some very special reasons. Nobel Biocare has a 40-year heritage of scientific research and innovation. They have provided sustained support of research throughout the world, supported many dental schools including Loma Linda, and they have supported dental professional organizations more than any other implant company. In other words, they have chosen to give back to the profession in many ways. Their scientific contribution of modern dental implants produced the greatest paradigm shift in dental diagnosis and treatment planning and changed the lives of the patients we serve more than any other innovation during my career. I wanted to express my appreciation on behalf of the School of Dentistry before turning over the formal recognition to Dr. Carter.”



*Baccalaureate speaker Anthony Campolo, PhD, and LLU Provost Ron Carter listen as graduating International Dentist Program student Chantal Ngo Bikoi of Cameroon addresses the audience.*





*"Your profession," Gerald Winslow concluded, "can be a collaboration with the maker of heaven and earth."*



*"If I could write a letter to us," Michelle Kaiser, dental hygiene class president, said, "I'd end by saying, 'Have no fear; these are somewhere near, the best years of your life.'"*



*"We did not cross this stage as 91 individuals, but as a family who would not leave anyone lagging behind," said dentistry class of 2012 president Michael Flewelling.*



*Sophia Sellas, SD'11, has just given her husband, Jason Gile, DDS, MD, his post doctoral certificate in oral and maxillofacial surgery.*



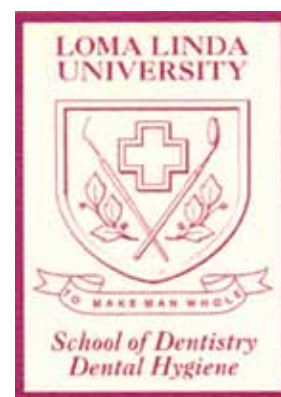
*Three faculty members and 17 of the 25-member 2012 graduating class of IDP students celebrate their degrees on Prince Hall stairs.*

## Dental Hygiene students pinned

**H**eld Friday evening, May 25, at Loma Linda's Campus Hill Church, the School of Dentistry's annual pinning ceremony for graduating dental hygiene students provides a meaningful preamble to their baccalaureate and commencement services.

Included in this high evening is the presentation of 16 awards to dental hygiene students (see listing below).

The pinning ceremony tradition gives each class the opportunity to publicly accept the responsibilities that accompany their profession as caregivers and to pledge "before God and all present . . . I will live my life in a way that brings honor to my family, my profession, my community, my school, and my God."



*The dental hygiene pin*



*The Loma Linda University School of Dentistry Department of Dental Hygiene graduating Class of 2012*

## Dental hygiene awards

### Dean's Award

Yatziri Ortega

### Klooster Humanitarian Award

Alexandra Knight

### Violet Bates Award

Solomon Iyesusab

### Student of the Year Award

Julianne Souza

### Clinician's Award

Joselyn Garcia

### Middleton Award

Michelle Kaiser

### Mitchell Award

Solomon Iyesusab

### California Dental Hygienists' Association Outstanding Leadership Award

Kim-Phung Truong

### American Association of Public Health Dentistry

Kim-Phung Truong

### Colgate STAR Award

Kim-Phung Truong

### Sigma Phi Alpha Award

Kim-Phung Truong

### Service Learning (DH) Award

Darwin Redil

### Tri-County Dental Hygienist's Society Award

Brianna Pickens

### Western Society of Periodontology Award

Amanda Armand

### Joni Stephen's Preventive Dentistry Award for Research

Debra Gruzensky

Jeanne Gustafson

Julianne Souza

### Special Service Award

Class of 2012



## Commenced and commissioned

**G**ranted military and professional titles on the same day, five 2012 LLUSD doctor of dental surgery graduates embarked on a double challenge—pursuing a dental career and military service.

Commissioned on May 27, 2012, at the Randall Visitor Center by retired Brigadier General Michael Walter, MD, associate professor, LLU School of Medicine, the five would soon enter their military assignments.

Lieutenants Jeffrey Clark, Jason Fowler, and James Feliz began their dental service in the Navy at Great Lakes Naval Base in Illinois. Lieutenant Ryan Holmes' assignment took him to the Naval Air Station in Jacksonville, Florida. Dr. Patrick Ferguson entered the Army as a captain, with an appointment in Fort Jackson, South Carolina.

Dr. Fowler cited the military's strong opportunities to pursue advanced training in dental specialties as an advantage in his career path. "And," he added, "it's an honor to serve the service men and women of our country."



*Gary Golden, SD'76, assistant professor, Department of Restorative Dentistry (Air Force Colonel); W. Patrick Naylor, DDS, MPH, MS, associate dean, Advanced Education (Air Force Colonel); Clyde Roggenkamp, SD'70, MSD, MPH, associate professor, Department of Restorative Dentistry (Air Force Lieutenant Colonel); R. Leslie Arnett, DDS, MS'68, professor, Department of Periodontics (Navy Lieutenant)*



*L-R: James Feliz; Jeffrey Clark and wife, Nicol; Patrick Ferguson and wife, Valerie; Jason Fowler and friend, Olivia Stepien; and Ryan Holmes and wife, Kiley*

## Student achievement award

Nearly 100 awards were presented to School of Dentistry students, May 25, 2012, during the School's annual Awards Ceremony at the Damazo Amphitheater in the Jetton Pavilion of Loma Linda University's Centennial Complex. Those awards, and a few presented earlier, are listed alphabetically below.

### **Academic Excellence Silver Awards** (Dentistry class of 2012)

**For NB I:** Chung-how Chen, Jae Kim, Allyson Kim, Alex Matosian, Daniel Niemann, Andrew Taylor, Mark Wierenga

**For NB II:** Jennifer Cross, Michael Du Vall

### **Academic Excellence Gold Awards** (Dentistry class of 2012)

Vanessa Browne; John Chae; Daniel Schlieder; Morse Stonecypher

### **Academy of Dentistry International Terry Tanaka Award**

Jason Mashni, SD'12

### **Academy of General Dentistry Award**

Dongjin Sah, SD'12

### **Academy of Operative Dentistry Award**

Thy Nguyen, SD'12

### **Academy of Osseointegration Implant Dentistry Outstanding Dental Student**

Kyle Ewert, SD'12

### **Alpha Omega Certificate of Academic Achievement**

Morse Stonecypher, SD'12

### **Alumni Association Award**

Vanessa Browne, SD'12

### **American Academy of Gold Foil Operators**

Jeffrey Clark, SD'12

### **American Academy of Implant Dentistry**

Vanessa Browne, SD'12

### **American Academy of Oral and Maxillofacial Pathology Award**

Michael Du Vall, SD'12

### **American Academy of Oral and Maxillofacial Radiology Award**

Elizabeth Ordelheide, SD'12

### **American Academy of Oral Medicine Award**

Allyson Kim, SD'12

### **American Academy of Orofacial Pain Award**

Jennifer Cross, SD'12

### **American Academy of Pediatric Dentistry**

Michelle Shin, SD'12

### **American Academy of Periodontology**

David Westerhaus, SD'12

### **American Association of Endodontists**

Michael Ignacio, SD'12

### **American Association of Oral and Maxillofacial Surgeons Award**

Daniel Niemann, SD'12

### **American Association of Oral Biologists**

Yehoon Ahn, '12

### **American Association of Orthodontists Award**

Morse Stonecypher, SD'12

### **American College of Dentists, Southern California Section**

Vanessa Browne, SD'12

### **American College of Prosthodontists Award**

Alex Matosian, SD'12

### **American Dental Association Foundation Scholarships**

Katina Nguyen, SD'14; Elijah Wang, SD'14

### **American Dental Society of Anesthesiology (ADSA) Horace Wells Award**

Eunice Hwang, SD'12

### **American Student Dental Association**

Hyuni Lee, SD'12

### **Ben W. Oesterling Award**

Artin Meserkhani, SD'12

### **California Dental Association Senior Award**

Vanessa Browne, SD'12

### **California Association of Oral & Maxillofacial Surgeons Award**

Jason Fowler, SD'12

### **California Dental Association Community Leadership Award**

Sorina Ratchford, IDP'12

### **CDA Foundation Dental Student Scholarship**

Vanessa Browne, SD'12

### **Christ-like Service, Boyko Award**

Aaron Tenzer, SD'12

### **Clinic Awards** (Dentistry class of 2012)

#### **Clinic Group Award**

Jin Yong Chun, Taylor Wilkens, Todd Song, Michael Du Vall, Allan Reeder, Nathaniel Leng, Jason Fowler, Ally Kim, Michael Ignacio, Dongjin Sah

#### **Overall Clinic Awards**

Jose Wu, IDP, '12; Michael Flewelling, SD'12

### **David Lee Anderson Departmental Award**

Andrew Elmasri, SD'12

### **Delta Dental Student Leadership Award**

Michael Flewelling, SD'12

### **Dental Foundation of California Scholarships**

Vanessa Browne, SD'12; Michael Du Vall, SD'12; Mark Wierenga, SD'12

### **Dentsply Student Clinician Award**

Brian Goodacre, SD'13

### **Drawing for NASDAD iPad**

Solomon Iyesusab, DH'12

**Excellence in Esthetic Dentistry Award**

Mark Wierenga, SD'12

**Excellence In Prosthodontics Award**

Michael Du Vall, SD'12

**Fixed Prosthodontics Department Award**

Todd Song, SD'12

**Foundation for Bioesthetic Dentistry**

Josh Renk, SD'12

**G. Hartzell & Son Clinician Award**

Kyle Ewert, SD'12

**Graduate Implant Dentistry**

Sarah Arocho Hopps, SD'12

**Hanau Excellence in Prosthodontics**

Morse Stonecypher, SD'12

**International College of Dentists Award**

Mark Wierenga, SD'12

**International Congress of Oral Implantologists Achievement Award**

Michael Du Vall, SD'12

**Kenneth Wical Award**

Josh Renk, SD'12

**LLU Center for Dental Research Basic Science Award**

Yegenah Parhizkar, SD'14

**National Association of Seventh-day Adventist Dentists**

Kyle Ewert, SD'12

**Omicron Kappa Upsilon (Class of 2012)**

Vanessa Browne, John Chae, Michael Chan (IDP), Ryan Chen, Michael Du Vall, Sarah Arocho Hopps, Eunice Hwang, Allyson Kim, Alex Matosian, Marta Rudat (IDP), Dongjin Sah, Morse Stonecypher, Aaron Tenzer

**Omicron Kappa Upsilon, William S. Kramer Award**

Jason Mashni, SD'13

**Oral & Maxillofacial Surgery Department Award**

John Chae, SD'12

**Pacific Dental Services Scholarships**

Jared Adams, SD'13; Jamie Blood, SD'13

**Pierre Fauchard Academy Award**

Ryan Chen, SD'12

**Pierre Fauchard Academy Scholarship**

Jason Mashni, SD'13

**President's Award**

Morse Stonecypher, SD'12

**Prince Award**

Michael Flewelling, SD'12

**Service Learning Awards**

Andy Lee, SD'12, Grace Roh, SD'12, Tristan Stone, SD'12

**Southern California Academy of Oral Pathology Award**

Alex Matosian, SD'12

**Southern California Society of Dentistry for Children**

Sarah Arocho Hopps, SD'12

**Western Society of Periodontology Award**

Anita Lee, SD'12

**Wil Alexander Award**

Alex Matosian, SD'12

**Wilfred A. Nation Award**

Michael Du Vall, SD'12

## *Honors Program Recognition*

Graduates recognized for Elective Program completion

**Vanessa Browne, SD'12**

Dental Anesthesia Honors Program

**Andrew Elmasri, SD'12**

Dental Anesthesia Honors Program  
Implant Dentistry Honors Program

**Sarah Hopps, SD'12**

Dental Anesthesia Honors Program  
Pediatric Dentistry Honors Program

**Eunice Hwang, SD'12**

Dental Anesthesia Honors Program  
Pediatric Dentistry Honors Program

**Michael Ignacio, SD'12**

Endodontics Honors Program

**Jae Kim, SD'12**

Dental Anesthesia Honors Program  
Pediatric Dentistry Honors Program

**Ji Kim, SD'12**

Orthodontics Honors Program

**Alex Matosian, SD'12**

Dental Anesthesia Honors Program

**Thy Dung Nguyen, SD'12**

Implant Dentistry Honors Program  
Dental Education Honors Program

**Morse Stonecypher, SD'12**

Orthodontics Honors Program  
Dental Anesthesia Honors Program

**Mark Wierenga, SD'12**

Orthodontics Honors Program  
Esthetic Dentistry Honors Program



# Loma Linda students reflect on attending a Christian dental school

by Jeremy Haines, LLUSD Class of 2014

Reprinted with permission from ASDA News, February 2012.

I often find myself answering questions about what it's like to attend a private dental school that is run by a church (specifically, the Seventh-day Adventist Church). There are many things that make the experience unique. We have prayers before lectures, religion classes, chapel attendance and an honor code, to name a few. Each student gets something different from the religious lean to our education. The following reflections showcase perspectives of several students at my chapter.

or wrong, good or bad, but instead to simply encourage an individual's personal path towards spiritual development. Thus, the range of religious views held by the students in my class ranging from Muslim to Catholic to Jewish were all greatly respected and shared.

It is difficult now to imagine practicing in a career that is tightly bound to ethical treatment and moral decisions, without having first spent time seriously contemplating and solidifying my personal ethical code. I am confident that



## Elijah Wang, Loma Linda '14

When I first arrived at the Loma Linda University School of Dentistry, I did not really know what level of intrusion religion would make into my daily life as an overworked dental student low on time. Without a background in the founding religion of LLUSD I was also wary at having my own religious beliefs attacked or being flooded with religious propaganda. It was soon apparent that my initial concerns were unfounded, and the spiritual aspect of the program produced very little burden to my pursuit to become a dentist. I began to find great joy in the religious classes and brief chapel services that we attended, finding the philosophical discourses to be a welcome respite from the heavy science course load. I was also pleasantly surprised to find that the goal was never to teach a strict sense of right

when the time comes to leave LLUSD, I will be well prepared in knowledge, skill and spirit, to tackle the challenges that await me as a new graduate.

## Wael Bekhit, Loma Linda '14

Praying before class, integration of faith and learning, and weekly worship might be considered a violation of the Bill of Rights by some people. At Loma Linda, we believe it's rather a sign of the religious freedom this country was built upon. I'm always reminded of the honor I receive by learning about the complexity of the human body created by God. Knowing God is the only source of healing humbles me. It also drives me to seek the best education so I can be a qualified assistant in the healing process.

LLUSD is a safe environment to discuss faith and I have found many students feel comfortable sharing their religious backgrounds with their peers. Over the past year, I have learned a lot about different beliefs and developed an understanding and mutual respect for my friends. Attending a Christian university comes with an expectation from the community. Many patients come to the LLU dental clinic because they expect to be treated with compassion, dignity and love. This is something I have to live up to.

For any student, religious or not, who considers the grandeur of his opportunities, and asks the question, "For what reason and purpose?" LLUSD invites you to meet people who have captured a spiritual context for their profession.

#### Janelle Bedford, Loma Linda '14

I appreciate the Christian heritage and values that LLUSD stands for. It acts to remind me of the bigger picture of when I will be a dentist, so I'm not just focused



#### Eric Chen, Loma Linda '14

The religious atmosphere at Loma Linda is an invitation. Specifically, it invites students of all faith traditions and persuasions to experience religious meaning in an otherwise secular professional program. It's an organic outflow of how the faculty and students infuse religious meaning into techniques and knowledge in dentistry. An encouraging excerpt on the restoration of the soul before a restorative dentistry lecture or test might reach and encourage a discouraged student.

Very often, the pursuit of dentistry feels like an imitation of techniques. It is a primary goal of LLUSD and its members to utilize dentistry to go the extra mile for the broken in body and/or spirit—to be the healing hands of Christ. This may sound lofty, but it becomes real when the same mentors that teach dentistry share their lives in spiritual encouragement—sitting down, head down, earnestly praying with a homeless patient like brothers. These mentors address the chief complaint of the spirit behind their chief complaint, and students are inspired to do the same. The atmosphere is not indoctrination, but warmth that welcomes people of all different backgrounds, statuses, and esteem to be elevated to the same esteem Christ held for the lost.

on the next 10 hours of lab work. Since my first year, I have taken one day off each week to attend church, relax and enjoy friends regardless of exams or lab work. This day off allows me to tackle my studies the next day, refreshed and motivated. Although this practice does not work for all of my classmates, I appreciate that I have the option to do so.

At Loma Linda, serving the underprivileged locally and overseas is greatly emphasized. Every break, the students have the option to travel and serve at a different site. From Honduras to Ethiopia, to our neighboring cities in Southern California, it is not only a question of whether the people that we helped had their dental needs met, but also a question of how much was the dental student's life impacted. Many local dentists, some of whom are our professors, support these missions and clinics with their time and knowledge. For these reasons, I appreciate being a student here, which continues to provide spiritual support for students and maintain a strong value in helping those in need.

For more information about Loma Linda University School of Dentistry, visit <<http://www.llu.edu/dentistry/>> [www.llu.edu/dentistry/](http://www.llu.edu/dentistry/)>

## Tristan Hamilton: Architect, dentist, alumnus

The Port City Dental Center designed by LLUSD alumnus Tristan Hamilton, SD'09, practicing in Wilmington, North Carolina, received the "Best Overall" honor from among hundreds of nominees for dental office architectural design in the inaugural competition sponsored by Benco Dental's *Incisal Edge* magazine <<http://viewer.zmags.com/publication/68b45a23#/68b45a23/58>>.

Dr. Hamilton, 33, graduated with a master's degree in 2003 from Andrews University School of Architecture, and practiced in that profession for five years.

During a month's hiatus from architectural work, he participated in a medical mission to Kafue, Zambia. "It really opened my eyes," he told *Incisal Edge*. "I hadn't even taken a blood pressure before, but, quickly, I was giving injections, doing prenatal exams. It made me realize that I couldn't continue what I was doing."

Not long after graduating from LLUSD in 2009, Dr. Hamilton began scouting the Wilmington area for a place to build a practice. He found a 3,600-square-foot building on a busy intersection that formerly was used as a haunted house by the local high schools.

As he considered redoing the building into a dental office, Dr. Hamilton was concerned about [the] impact of spaced design on human homeostasis and metabolism, tied as they are to environment. As a student at LLUSD, "I actually did my dental research on alleviating patient fear through the design of the dental office," he said. "Most students do 'the art of decay' or 'toothpaste that makes teeth white,' but we developed a thesis that by creating key elements within the [office] design, you can eliminate a portion of dental phobia."

So Dr. Hamilton "wanted to make this look nothing like a dental office." Instead, he wanted his practice to feel more like a spa or gallery.

The sensory, physical, and emotional experience is often what impacts people the most in a medical or therapeutic environment, including odors, sounds, lights, and temperature. So, combining research-driven findings for maximizing environmental therapeutic benefits with his architectural vision and expertise, Dr. Hamilton drew up a 'whole building' design concept.

The design—smoked 14' ceilings; curvilinear, serpentine walls; soft iridescent blue walls; the use of natural materials, such as woods and fabric rather than tiles and plastic; and soft, full-spectrum lights—was research-supported but driven

by Dr. Hamilton's desire to relax his patients, personalize the experience and free it of fear and anxiety.

"The curvilinear walls in the entryway eliminate the harsh feel of angles. Harsh angles make for harsh spaces," he says. "The entryway immediately helps alleviate fear."

"By using wood, plants, and living room furniture in the entryway, we made the space feel homey rather than like a lobby. We purchased local wood stumps and had them debarked and polyurethaned by a local guy and used them as tables. Kids

love to climb on them! And, the warm tones in the wood help create a homey feeling.

"Lighting was an important consideration and has a very profound effect. European and Swedish studies have shown that replacing fluorescent with full-spectrum lights reduces absenteeism by more than 40%," he said.

Another thing that bothered Dr. Hamilton: "People are always told, 'Go to Op 1' or 'Go to Room 2.' Each one of our operatories is about the Port City."

To ameliorate this sterile, formal feel, Dr. Hamilton utilized the streets of Wilmington and named each operatory after a street, in the geographically correct order—so you have Orange, Ann, Nun—to indicate that this is all

about the Port City and the people of the Port City.

"Another special thing—the serpentine chalk wall—is so much fun!" declares Hamilton.

"Everyone who comes here is in awe of what people can do with chalk. Initially, I envisioned children using the chalk wall, but eventually I depicted the waterfront along Downtown Wilmington. The chalk wall can be seen from the street, so we night-light it and use it for night-time marketing, 'Appointments Available,' 'We Accept All Insurances,' that sort of thing."

"I really enjoy serving people," says Dr. Hamilton. "We always try to bring more than just dentistry to my office. We always look to see how we can help somebody out, emotionally, physically, spiritually. In this office, our philosophy is, 'We combine soothing aesthetics with gentle care to alleviate patients' fear of visiting the dentist.'"



Tristan Hamilton, DDS, made the cover of *Edge*

*This article was excerpted from Incisal Edge, Spring 2012, pp. 56-59. Photographs by Forbes Photographer Matthew Furman for Benco Dental Incisal Edge magazine.*





*A serpentine chalkboard wall depicting the Wilmington waterfront shows the artistic talent Dr. Hamilton utilized in his previous career.*



*Dr. Hamilton's patients have a front-row seat to the progress of their own treatment.*



*Soaring ceiling heights, with exposed ductwork and piping, provide a lofty, free feeling throughout the office.*



*A spacious, inviting reception/waiting area makes a great first impression and puts patients at ease.*

## Dr. Baba appointed to editorial staff

**N**adim Z. Baba, DMD, MSD, professor of restorative dentistry and regional director of the Pacific American College of Prosthodontists, accepted appointment as associate editor of the *Journal of Dental Traumatology* beginning January 1, 2012.

A specialist in prosthodontics and implant dentistry, Dr. Baba will oversee the journal's esthetics/prosthetics/restorative section. He joins an editorial staff that includes an editor-in-chief from Kuwait as well as Leif Bakland, SD'63, Ronald Buell Professor of Endodontics, the journal's associate editor for endodontics and periodontal aspects.

Mathew Kattadiyil, DDS, MDS, MS'99, director, Advanced Specialty Education Program in Prosthodontics., will be serving on Dr. Baba's editorial board. Other associate editors, who practice in Chile, Denmark, Switzerland, and Canada, establish the international coverage achieved in this international publication.

The following citations indicate what a productive year, Dr. Baba had last year:

Chedid NR, Bourgeois D, Kaloustian H, **Baba NZ**, Pilipili C. Caries. prevalence and caries risk in a sample of Lebanese preschool children. *Odontostomatol Trop*. 2011 Jun;34(134):31-45.

**Baba NZ**, Berry F, Lehnhof MC. Early shear bond strength of experimental amalgam-bonding combinations



*Dr. Nadim Baba*

with and without thermocycling. *Int Arab J dent*. 2011;2(2):25-30.

**Baba NZ**, Goodacre CJ. Key principles that enhance success when restoring endodontically treated teeth. *Roots* 2011;7(2):30-35. This article was published in the European, US and Czechoslovakian edition of the journal.

## Dr. Lozada honored by Mexican government

**J**aime L. Lozada, DDS, director, Advanced Specialty Education Program in Implant Dentistry, was honored with a special award from the Mexican government, presented to him by the country's secretary of health at a commemorative ceremony celebrating Dentistry in Mexico City on February 10, 2012. The award recognizes Dr. Lozada's contributions to dentistry in Mexico and his outstanding professional record as an international ambassador for education and training in implant dentistry.



*Dr. Jaime Lozada*



## Annual Children's Day

Hundreds of children visited the School of Dentistry's booth Wednesday, March 16, 2012, during Loma Linda University's annual Children's Day on the north lawn between the School of Dentistry and the University Church. Each child had the opportunity to learn optimal tooth brushing technique from oral healthcare professionals by practicing on the mouths of a variety of stuffed animal characters from well-known television shows and movies.

Visitors to the dentistry booth also received a tour of the School's Mobile Dental Clinic.

With the help of Stella Suba, RDA, CBA, Jeri Fowler, assistant director, Dental Alumni Association, organized and staffed the School of Dentistry's booth with residents from the Advanced Education Program in Pediatric Dentistry and dentist volunteers from the Jerry L. Pettis Memorial Veteran's Medical Center.

Coordinated by LLU Children's Hospital representative Dorothy Brooks, the Children's Day event provided health education to 1,703 visitors—1,248 children and 455 adults.



*Jeri Fowler, Alumni Association assistant director, schmoozes a future dentist.*



## Winning video benefits School's A.S. degree dental hygiene program

A \$1,000 first prize was awarded to the students of Loma Linda University School of Dentistry's dental hygiene Associate of Science degree program in Palm Desert, California, for their instructional video entitled, "Fones Brushing Method."

In collaboration with the American Dental Hygiene Association, Sunstar, a leading producer of mouth and body care products, holds an annual contest offering first-year dental hygiene students prizes for the most creative, two-minute instructional videos that teach children the proper way to brush their teeth. "Be creative, fun and original," Lilli Smothers, manager of student relations for the ADHA, advises dental hygiene student contestants.

The award money goes toward the winning school's dental hygiene program.

Ashlynn, the daughter of one of the students in LLUSD's Associate of Science degree program, stars in the first place video which can be viewed at: [http://www.youtube.com/watch?v=d\\_ZSUXQoFcY&feature=youtu.be](http://www.youtube.com/watch?v=d_ZSUXQoFcY&feature=youtu.be)

"We are happy to have represented Loma Linda University



*Ashlynn, star of "Fones Brushing Method."*

School of Dentistry in such a fun and positive way," says Andrea McGinity. "We had a wonderful time creating the song and video and are grateful that we are able to educate children in such a fun and exciting way!"

## Lincoln Edwards moving forward

Lincoln Edwards, PhD, SD'09, associate professor, Dental Education Services, was awarded first place in the Basic Sciences poster competition at the recently concluded Network of Minority Research Investigators, sponsored by the National Institutes of Diabetes and Digestive and Kidney Diseases (NIDDK) that met in Bethesda, Maryland, April 19 and 20, 2012.

The NIDDK has established a communication network of current and potential biomedical research investigators and technical personnel from traditionally underserved communities to advance scientific knowledge and contribute to the reduction and eventual elimination of racial and ethnic health disparities.

Dr. Edwards is the only person in the 10-year history of NMRI who has won the Basic Sciences poster competition more than once; he also received the honor in April 2010.

"I am delighted that I was able to represent Loma Linda University very well among such a distinguished group of scientists," Dr. Edwards remarked.

In another succession of awards, Dr. Lincoln first received a travel award from the American Physiological Society to attend the Experimental Biology meetings in Washington, D.C., in 2011; more recently The Federation of American Societies for Experimental Biology along with the American Society



*Dr. Lincoln Edwards*

for Pharmacology and Experimental Therapeutics granted Dr. Lincoln a travel award to attend the Experimental Biology meetings in San Diego, April 21-25, 2012.

## Alumnus volunteers among the Maasai

Recently, David James Saad, SD'89, PG'94, dental anesthesia, was featured in the *Chico Enterprise-Record* (April 15, 2012) for a three-week dental service providing trip he took with his wife Julie, CPA, MBA, under the auspices of the National Association of Seventh-day Adventist Dentists (NASDAD) to the Maasai Dental Clinic, five miles from the Maasai Mara National Game Park, a wilderness area and game preserve in southwestern Kenya, famous for its big cats.

The clinic, comprised of three fully equipped dental operatories, provides free dentistry five days per week. While it employs a staff of local Maasai, the clinic's dentists are volunteers who spend a few weeks at a time, on a rotating basis, mostly from the United States and England.

Despite the rather modern nature of the clinic, it is surrounded by a Maasai population of approximately 50,000 that lives in mud huts. "The men carry spears or sticks to defend themselves and their cattle against lions, leopards, and snakes," says Dr. Saad. Although the Saads stayed in a convenient apartment above the clinic, because of the danger of lions and other wild animals, they could leave the compound—surrounded by an electric fence—only when a Maasai driver was available to transport them.

Dr. Saad was able to see approximately 15 patients each day, treating infections and extracting many teeth from people who had walked as far as 30 miles to the clinic.

According to Dr. Saad, the oral health of the Maasai is dismal for several reasons. They do not brush their teeth, and they eat roots that are rough on their teeth. Furthermore, because their water contains toxically high levels of fluoride, the population suffers from an enamel damaging disease called fluorosis—some of the worst cases he'd ever seen.

Over the past 23 years, Dr. Saad has made dental mission trips to many parts of the world, including Haiti, the South Pacific, and Mexico. In Haiti, he had patients sit on a rock "in the middle of nowhere," and someone held a flashlight while he extracted teeth to provide pain relief.

As a pediatric dentist, Dr. Saad has a special concern for the many children who have been brought to him for treatment on his overseas mission trips. And after his November 2011 experience in Kenya, he says he would like to return and start an oral hygiene program for the Maasai children.

Dr. Saad believes "that mission work and being the extension of God's hand to alleviate suffering anywhere in the world is what truly defines LLU. I am blessed to be able

to be a small part of the army of Loma Linda graduates who do their part."

Dr. Saad completed his undergraduate degree at Walla Walla University in 1983, with majors in religion and biology, and then spent time participating in medical research before deciding to pursue a career in dentistry. After graduating from Loma Linda University School of Dentistry in 1989, he remained as a part time faculty

member for three years before entering the School's Advanced Education Program in Dental Anesthesiology from which he earned a certificate in 1994.

Raymond S. Damazo, DDS, and his wife Gail, built the Maasai Dental Clinic in 2008 within the legal auspices of the nonprofit World Health Dental Organization (WHDO). In 2010 WHDO turned over leadership of the clinic to NASDAD which operates the clinic in partnership with Loma Linda University for the School of Dentistry.

The Clinic is becoming an international teaching center with a dentist and a senior dental student cycling through the facility. Volunteers, such as Dr. Saad, are needed throughout the year. For more information, Kirk Hunt, SD'67 (who coordinates the volunteer schedule), may be reached at: (209) 712-3909 or (209) 334-9072, or by email at:

[kirk.worldtraveler@kirkhunt.com](mailto:kirk.worldtraveler@kirkhunt.com).

Dr. Saad highly recommends the satisfaction he has found in mission dentistry to colleagues who have never had the experience.



*The Maasai Dental Clinic at dusk*





*Clockwise from upper left: a Maasai open-air market; knee-to-knee exam of a toddler with dental trauma; Dr. and Mrs. Saad pose with Maasai shaman; father and son patients sit with their dentist; Dr. Saad and indigenous assistant treat a patient; Dr. Saad administers block a to a motorcycle accident victim who broke his upper anterior teeth, fractured the alveolar bone, and suffered gingival lacerations*





## *Dr. Nicholas Davis awarded Lifelong Learning & Service Recognition*

The Academy of General Dentistry (AGD) has awarded Nicholas C. Davis, SD'73, MAGD, the 2012 Lifelong Learning & Service Recognition (LLSR). Dr. Davis received this recognition for his commitment to lifelong learning, volunteering his services to communities in need, mentoring associates and new dentists, and participating in organized dentistry.

The LLSR is presented to AGD members who have gone above and beyond earning the association's highest honor of Mastership. To accomplish this recognition, Dr. Davis completed at least 1,600 hours of continuing dental education in 16 different dental disciplines. In addition, recipients must complete at least 100 hours of dental-related community or volunteer service.

Since its inception in 2005, only 158 of the AGD's 37,000-plus members have received the prestigious LLSR recognition.

Dr. Davis is the current president of the Orange County Academy of Cosmetic Dentistry.

Dr. Davis, and his wife, Kiki, live in Laguna Beach, California, with their two children, Christopher and Kia.



*Dr. Nicholas Davis*

## *ABOD elects Dr. Clyde Roggenkamp president*

Clyde Roggenkamp, SD'70, MSD, associate professor, Department of Restorative Dentistry, accepted a two-year appointment as president of the American Board of Operative Dentistry (ABOD) at the organization's annual Chicago meeting in February 2012. He will preside at the winter meetings in Chicago, supervise seven ABOD committees, and oversee Board candidates certification process.

Conceived in 1980 to elevate the art and science of operative dentistry, ABOD sponsors valuable continuing education courses and conducts examinations to determine the proficiency of dentists who voluntarily apply for certification. Board certification has become an important consideration for special remuneration and rank promotions in some branches of military service. Additionally, some graduate training programs promote ABOD certification for their students to achieve added credibility when seeking academic appointments.

Certification requirements culminate in a three-part test—written, clinical, and oral—the latter requiring an extensive photographic portfolio plus mounted, articulated study casts to defend treatment decisions.

As of February 2012, a total of only 84 candidates had achieved board certification. Certified in 1990, Dr.



*Dr. Clyde Roggenkamp*

Roggenkamp holds ABOD Certificate number 21. Other certified ABOD members currently teaching at LLUSD are So Ran Kwon, DDS, PhD, MS, associate professor in restorative dentistry, Michael Meharry, SD'80, assistant professor in restorative dentistry, and Carlos Chavez, DDS, MS, assistant professor (part time) in restorative dentistry.

## 2011 *Legacy of Leadership*

We gratefully acknowledge the support of those who have made a personal commitment to advance the mission of education and service at Loma Linda University School of Dentistry. Philanthropic support is essential as dental professionals of tomorrow are educated today. The School of Dentistry is strong because our alumni, friends, faculty, and staff work together.

Voluntary support of more than \$4,067,192 came to LOMA LINDA UNIVERSITY from School of Dentistry alumni and friends during the 2011 calendar year.

Please join us in celebrating the Legacy of Leadership by those whose names appear on the following pages. Donors are listed in the following order:

- 1) those who have graduated from Loma Linda University School of Dentistry with a doctor in dental surgery (DDS), including those who earned this degree through the International Dentist Program (IDP),
- 2) current DDS students,
- 3) those who did not earn their DDS from LLU, but have received an advanced education degree or certificate,
- 4) those who graduated from the dental hygiene program or the dental assisting program,
- 5) those who have graduated from other Loma Linda University schools, and
- 6) those who are non-alumni faculty, staff, and friends of the School of Dentistry.

**Dean's Circle** members for 2012 (*those who demonstrate generous philanthropic support to the School of Dentistry with an annual gift of \$1,500 or more*) are indicated in **regent red type**.

**Century Club** and **Ivory Society** members for 2012 appear at the end of the section for DDS and Dental Hygiene alumni at these levels: (BRONZE—\$100-\$499, SILVER—\$500-\$999, GOLD—\$1,000+).

Names with asterisk in *\*gray oblique type* indicate the donor is deceased.

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**Eunsun Lew**  
**Clinton H. Park**  
Yong K. Park  
Shawn P. Rusk  
Amy S. Tsai  
Bryce K. Tsai

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**Byron Diehl**  
Todd Ehrler  
Jaleena Ann Fischer-Jessop  
**Ping Hai**  
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Rehana Khan  
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**Class of 2004**

**Marcelo V. Bada**  
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**Mark Kunihiro**  
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**Sakher B. Hegazin**  
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 Donald D. Kim  
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 Richard Y. Kunihiro  
 Kevin S. Kuniyoshi  
 Scott M. Lee  
 Duk-Sun Lee  
 Eunsun Lew  
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 Stephen R. Libby  
 Roger W. Lindner  
 Alexander Lobaina  
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 Perveen A. Khwaja  
 Jae S. Kim  
 Andrew Lewis  
 Justin C. Libby  
 Landon J. Libby  
 Kimberly Magner  
 James Mashni  
 Artin Meserkhani  
 Jin O. Park  
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 Andrew Taylor  
 Emmett Tetz  
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 Paige Woods

## GRADUATE PROGRAMS CERTIFICATES

Arash Aghakhani  
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 Philip Baugh  
 David Bennion  
 Jeffery Biggs  
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 Sherry A. Caraveo  
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Cherene K. Pickett (Combs)  
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Pamela Rae Monroe  
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Joni A. Stephens  
Kristi J. Wilkins, MA

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Deanne M. Morita  
Suzanne R. Nelson  
Christine L. Swarner

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Paula Jean Albers  
Heather R. Armbruster  
Bridgette L. Bear  
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Helen J. Boskind  
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Kathleen R. Carter  
D. Darlene Cheek  
P. Anne Clawson  
Cynthia L. Collier  
Debra A. Comm  
Connie Dacre  
Ruth Ann Deetz  
Miriam J. DeLaRoi  
Tammorah L. DeMercy  
Mak Nai Dohr  
Theresa L. Klein-Doran  
DeeAnna Nieri Eller  
Nora Elloway  
Arlene L. Ermshar  
Joni K. Evans  
Janelle H. Fairhurst  
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Debra L. Gerger  
Anne Golden  
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Kathleen Marie Hansen  
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Penny B. Haughey  
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Jill D. Hodson  
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Lena Tsao Hsieh  
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**Wu Zhang**

\* Deceased

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**M. Webster Prince,**  
the founding dean  
of Loma Linda  
University School  
of Dentistry

## *The M. Webster Prince Society*

Those who share the founding dean's vision and are committed to sustaining the School of Dentistry in its mission of education, service, and advancement of the dental profession are recognized in the M. Webster Prince Society.

Membership is for those who have made a special commitment to assure the future of the School through a planned gift—a will, trust, or another deferred gift plan.

- Ernest N. and Gloria Chan
- Robert L. and Joann Darby
- Nancy L. Davidson
- Lowell C. and Beverly Dobyns
- Charles J. and Ruthy Goodacre
- Rhea Goodacre
- Gerald E. Hanson
- Wilburn (Bill) and Norma Ingham
- Judson and Arlene Klooster
- Albert C. and Elizabeth A. Koppel
- L. Albert and Joan Lewis
- Hugh C. and Dollie L. Love
- Oliver I. and Dixie Lowry
- Harold A. and Marjean Mathiesen
- Gerald A. and Sara Mitchell, Sr.
- Edwin Rudolph and Eleanor Nelson
- Dale S. and Carol J. Pyke
- Clyde L. Roggenkamp
- R. David and Judy Rynearson
- Willis L. and Doyleen Schlenker
- Wynton Gerald and Darlene Shaw
- Ronald and Joni Stephens
- Ted L. and Geraldine E. Stephens
- James and Sandra Szana
- Julian C. and Elaine Tsai
- James C. and Helena Tsai
- Van and Verna Unger
- Junko Yamamoto
- Margaret Alai
- J. Milford and Louise Anholm
- Michael P. and Diane M. Boyko
- Philip and Mary Anne Boyne

*In the preparation of the 2011 Legacy of Leadership Report great care was taken to verify the accuracy of all records; however, errors may have occurred. Please contact the Office of Development at (909) 558-4969 to report any error or omission. Please accept our sincere apologies for any error or omission..*

## *Service is our Calling*

*This sculpture is based on an original work by Alan Collins prominently displayed between the School of Dentistry and the University Church. Collins, an English born artist, is noted for his work on the John F. Kennedy Memorial at Runnymede, England, his work at Great Britain's Guildford Cathedral, and for his recent work on campus representing Jesus as the healer of the woman who touched His robe.*

*A gift from Dr. & Mrs. I. Keith Corbett, this sculpture hangs in the Center for Dentistry and Orthodontics. A replica will soon be on display in the lobby of the School of Dentistry, a gift from Dr. & Mrs. Daniel Newbold.*



(Concluded from page 64)

In 1983 Judson Klooster, DDS, LLUSD dean, 1971-1994 noted Dr. Wical's impact on students: "The students count on you to be buoyant when they are depressed, to be vigorous and energetic when they grow a little tired." Awarded Loma Linda University's Distinguished Faculty Service Award in 1992, he said, "I do not consider any of what I have to be noble or sacrificial. I never thought I was making a sacrifice at the time; I was doing what I enjoyed."

Honoring his professionalism, the Kenneth Wical Award for Excellence in Prosthodontics was established at LLUSD in 2006 and is annually bestowed on a prosthodontist selected for professional excellence.

At the age of 82, Dr. Wical died peacefully in Loma Linda on July 6, 2012, leaving a host of colleagues, patients, and students who join his family members in mourning his death: his wife of 57 years, Virginia of Redlands, California; daughters Susan Baughman (husband Gary) of Redlands and Carol Johns (husband Walter) of Redlands; sons Scott (wife Suzanne) of Spokane, Washington, and Lt. Col. Kenneth (wife Nichole) of Fayetteville, North Carolina; and four grandsons.

His family suggests that gifts in Dr. Wical's memory be made to Loma Linda University School of Dentistry, Loma Linda Academy, or the Michael J. Fox Foundation for Parkinson's Research.

## Corrections

2010 doctor of dental surgery graduates Young Rae Kim and Jahyun Koo were mistakenly left out of their class photo panel that was printed in the LLUSD *Biennial Report 2010 & 2011*. And the wrong photo was published over the name of Hanan Al-Haddadin in the class panel photos for the International Dentist Program graduating class of 2011. The three graduates now appear correctly in the online version of the 2010 & 2011 *Biennial Report* at: [http://www.llu.edu/assets/dentistry/documents/news/2010-11\\_biennial\\_report.pdf](http://www.llu.edu/assets/dentistry/documents/news/2010-11_biennial_report.pdf)

With apologies, the three graduate alumni are pictured below as they should have appeared in the original, printed version of the *Biennial Report*.



Young Rae Kim



Jahyun Koo



Hanan Al-Haddadin

## Les Bergstrom

Active in a career spanning the globe, **Leslie A. Bergstrom**, SD'72, was responding favorably to treatment for myeloma when he died unexpectedly at his home in Old Hickory, Tennessee, on July 9, 2012, possibly the result of an embolism.

Dr. Bergstrom spent his youth in Birch Hills, Saskatchewan, running trap lines for trading and hunting with his father. After completing predoctoral education at Andrews University, Michigan, he entered LLUSD with the class of '72.

Upon graduation from dental school, Dr. Bergstrom spent a short time in Saskatoon, Saskatchewan, before

moving to the town of Wyoming in Ontario, Canada. There he started a practice as the only dentist in a town with a population of 1,700 people. During mission service in Malawi, Africa, 1983 to 1987, Dr. Bergstrom's quality dentistry brought even the president of the country to seek his professional services.

Returning to North America, Dr. Bergstrom's destination was Lebanon, Tennessee, where he established a reputation for being "a caring Doc." One patient recently recalled experiencing such severe pain that he considered pulling his own tooth at 2 a.m. Calling Dr. Bergstrom instead, the patient secured a 3 a.m. appointment with Dr. Bergstrom, who arrived with his wife at the office, where he opened an abscess and relieved the pain.



Dr. Les Bergstrom



## R. Allen Elloway

The second of eleven Elloway family members to complete dentistry at LLUSD, **R. Allen Elloway**, SD'63, later saw all of his offspring pursue health care professions, three as dentists, one as a physician. Currently, three of his grandchildren are pursuing prerequisites required for entering dentistry at LLUSD.

When Dr. Elloway died on April 14, 2012, in Coquitlam, British Columbia, he left a legacy prompted by his hard work ethic, generosity, and humanitarian commitments.

Born April 6, 1934, on a farm near Saskatoon, Saskatchewan, Dr. Elloway completed pre-dentistry at then Walla Walla College, Washington, before entering



*Dr. Allen Elloway*

LLUSD's class of '63. Upon graduation, Dr. Elloway opened what became his 40-year dental practice in Coquitlam. It expanded as he added young dentists whom he actively mentored. In Coquitlam he was also instrumental in starting the Cornerstone Coquitlam Seventh-day Adventist Church.

Dr. Elloway extended his church building initiatives to areas in Ukraine, his mother's home country. In Borislav, Ukraine, he supported the Seventh-day Adventist congregation's need for a church sanctuary of its own. After the fall of the Iron Curtain, he filled containers with dental chairs and equipment to start three dental offices located in Borislav, Kiev, and Moldova. He met several young people in Ukraine whose education he volunteered to sponsor. One of these individuals, now a pastor in Canada, officiated at his memorial service.

Dr. Elloway is survived by his wife of 54 years, Shirley; by his three sons—Ron, DDS (wife Carol), of Coquitlam; Rick, LLUSM '91 (wife Jean), of Tumwater, Washington; and Randall, SD'92 (wife Noura, DH'92), of Red Bluff, California; his daughter, Rhonda Elloway-Stephens, SD '90, DH'82 (husband Edward), of Coquitlam; his siblings, John, MD; Simon, MD; Norman, DDS; Peter, DDS; Nina, LLUSN; and Marge, LLUSN; 14 grandchildren, and one great grandson.

## Jerome Jablonski

A life-time NASDAD member, the impact of **Jerome Jablonski**, DDS, at LLUSD was significant to students who recall mission trips to the Navajo reservation with their mentor. He repeatedly shared holiday breaks with them. "He was quiet but great inside," says Samuel Sheu, SD'94, who went

on three holiday mission trips with Dr. Jablonski. Dr. Sheu adds, "When I'm faced with a dental decision, I ask myself, 'What would Dr. J do?'"

A notably organized person, Dr. Jablonski provided the details of his life before his death on January 22, 2012, in Hanford, California.

Born March 17, 1936, in Owen, Wisconsin, Dr. Jablonski completed dental



*Dr. Jerome Jablonski*

school at Marquette University in 1963. He fulfilled his draft requirement by serving in the United States Public Health Service on the Sioux reservation in South Dakota.

The next several years were spent in private practice. In 1975 he left the practice of dentistry to enter full-time gospel ministry for the Seventh-day Adventist Church in Michigan. After serving several churches in the Michigan Conference, he became pastor of the Mountain View Church in Las Vegas, Nevada, where he was ordained in 1980.

Five years later, shortly before joining the faculty at LLUSD, Dr. Jablonski married Heather Belle McReynolds. At the School he pursued his assignment: teaching clinical oral surgery and directing students in off-campus service learning programs. After completing his duties at Loma Linda and moving to Hanford, California, he served in the Central California Conference part time, ministering in the Hanford, Corcoran, and Exeter churches. In addition, he served as a volunteer chaplain in the California Substance Abuse Treatment Facility/State Prison for three years.

Dr. Jablonski was preceded in death by his first wife Lucinda and is survived by his sister Bernice Ratter, his wife Heather, daughter Lynel Roberts, and three grandsons, Jordon and Aaron Roberts and Jake Hansett.

## Merton Lacy

His four children, nine of his 14 grandchildren, and two of his seven great grandchildren, were present at the memorial service for **Merton Lacy**, SD'57, ortho MS'80, following his death in Phoenix, Arizona, on March 13, 2012.

Born May 28, 1925, in Loma Linda, California, Dr. Lacy completed his dental education with the first LLUSD class in 1957.



Dr. Merton Lacy

His dental career took him and his wife of 58 years to Phoenix, Arizona, and a variety of California sites—Highland, San Manuel, Sacramento, Glendale, Los Angeles' Crenshaw area, Rolling Hills (concurrent with the Watts riots), and Lancaster—culminating in

1991 in Tucson, Arizona, where he practiced his final five years. He rated some of the most meaningful practices as those that occurred in troubled neighborhoods.

Gifted in creating clay model airplanes and cars—complete with seats, steering wheels, windows, wheels, propellers, etc.—Dr. Lacey would fly these creations into bushes to examine the impact of the crash. Thus he sought to learn how to make vehicles more sturdy, determining what angles sustained the most damage.

Suffering a fall in December 2010 that left him a paraplegic, this very active man who had been a pilot and participant in community and church events, told his family, "Life has a way of calming us down.

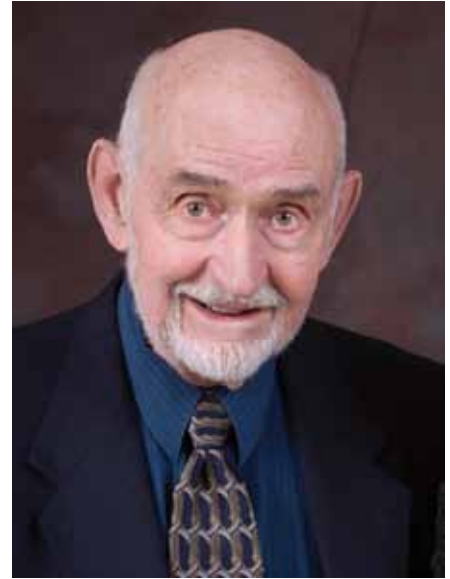
"Once I realized this [condition] was permanent, I prayed, 'Lord, I don't know why I'm still alive at this age. But, as long as you give me life, I ask that you please give me the ability to use what I have left, ... which is my mind ... to encourage others for you.'" Those who knew him were not surprised that his caretakers became like family members, cheered by his indomitable spirit.

His wife, Gwen (nee Gepford), preceded Dr. Lacy in death (2007); family members mourning their loss are his children: Patrick of Phoenix, California; Judi Hewes (Bob, LLUSM'76B) of Ormond, Florida; Lianna Feters (Chuck) of Haymarket, Virginia; and Tom (Darlene) of Dayton, Ohio; and his 14 grandchildren and seven great grandchildren.

## Rodney Longfellow

A few hours after a fall that left him paralyzed, **Rodney Longfellow**, SD'60, died at home in Parker, Colorado, on December 24, 2011.

Born in 1924 in Lovell, Wyoming, Dr. Longfellow spent World War II years as a medic in the U.S. Air Force, meeting planes arriving with wounded servicemen and escorting them to their destinations. Thereafter he completed a bachelor's degree at Union College and a physical therapy degree at Loma Linda University before joining LLUSD's class of 1960.



Dr. Rodney Longfellow

Initially practicing dentistry in Highland and Ontario, California, Dr. Longfellow ultimately be-

came the sole dentist in the Willsall, Montana, community for more than 30 years. He maintained an active practice until retirement at the age of 82, when he and his wife moved to Parker, Colorado, to be near their daughter.

An enthusiastic rock climber, Dr. Longfellow became, at the time, the oldest person to climb El Capitan. He was 54 when he spent six days on the face of the rock. An active backpacker, he also earned a private pilot license and flew his own plane. He often combined adventure with dental care, making trips to conduct clinics in Thailand, Cambodia, Malawi, and various sites in Mexico during his vacations. With his wife he was active in a significant stress management prison ministry that began with inmates in Frontera Prison, Chino, California, and continued at prisons in Montana.

Mourning his passing are Dr. Longfellow's wife of 68 years, Irene, of Parker, Colorado, who created the bronze sculpture, *Service to the World*, located in the main lobby of Prince Hall. She also presented the School with a sculpture of Dr. Robert Ricketts and a Maasai warrior bust. Two daughters—Sherry and Joni—preceded their father in death. Dr. Longfellow is survived by two children, Robyn Jaslow (husband Jeff) of Parker, Colorado, and Gary (wife Alexandra), of Placerville, California, and six grandchildren, two of whom were raised by the Longfellows after their premature death.

## Bruce Oliver

**Bruce Oliver**, SD'59, was at his winter home in Punta Gorda, Florida, when he succumbed to heart problems on March 27, 2012.

Dr. Oliver returned to the site of his birth (1935), Niles, Michigan, to establish a dental practice after completing pre-

dental studies at Emmanuel Missionary College in Michigan, dentistry at LLUSD, and an orthodontic specialty at Northwestern University, Evanston, Illinois. A former employee says, "He was a good boss and a good man."

While pursuing his orthodontic practice, Dr. Oliver also became active in local organizations; he was chairman

of the Niles Seventh-day Adventist church school, and participated in the YMCA board and three Rotary Clubs in the area. He enjoyed golfing, fishing, and hunting and is remembered for devotion to his family, his dogs, travel, and reading.

Dr. Oliver was predeceased by his son, John Oliver. He is survived by his daughters—Lauren Strach of St. Joseph, Michigan, and Lynn Huff Price of Punta Gorda—as well as four beloved grandchildren.



*Dr. Bruce Oliver*

## Oliver Scheideman, Jr.

**Oliver Hiram Scheideman Jr.**, "Ollie," SD'67, of Chico, California, died June 7, 2012, at the age of 71 in Lexington, Kentucky, on the fifteenth day of a bicycle ride. He had anticipated ending his journey in Oregon, and had averaged more than 50 miles per day on the trip, sending daily reports

of enjoying "Every Fantastic Inch" of the ride.

On June 4 Dr. Scheideman had sped ahead of his group and crested a hill in Jackson County, Kentucky, when he fell. He died three days later without regaining consciousness.

Born June 3, 1941, in Lodi, California, Dr. Scheideman early developed a curious, adventurous, and out-



*Dr. Oliver Scheideman, Jr.*

going demeanor. He carried this zest for life with him in many endeavors. With his drive and entrepreneurial spirit, he started and built a successful dental practice in Yuba City, California, after graduating in LLUSD's class of '67.

Dentistry gave Dr. Scheideman an outlet to help others; his compassion for people took him on mission trips around the world and led to sponsorships and mentoring of children locally and globally. Acting on his motto, "Meet the Need," he supported Father First with "DAD TAGS" to remind men of their responsibility and joys of fatherhood.

Dr. Scheideman is survived by his wife, Pamela Scheideman; his son, Jake Scheideman; daughter, Erin Scheideman; step-sons, Adam and Mark Geyer; grandchildren, Amanda Scheideman, Natalie Scheideman, Jaydon Rodriguez, Logan Geyer, Evelyn Geyer, and his sisters, Vonnie Rocke, Robin Hunsinger, and Kelly Scheideman.



## Marvin Seaward

**Marvin Seaward**, SD'59, and his twin sister, Frances, were born on November 7, 1923, in Pomona, California. He married Betty Wruck, a nurse at White Memorial Hospital, in 1949. The couple adopted two sons, Brad and Ronn.

After completing dentistry in 1959, Dr. Seaward practiced his left-handed dentistry in New Mexico, where he worked on the Indian reservation, then in Livingston, California, and Susanville, California. He maintained active church participation in each community.

In retirement Dr. Seaward moved first to Hermiston, Oregon, then to Brewster, Washington, to be near his sister, Barbara

Wyman, and family. After five years he moved to Sultan, Washington, to be near his son. During retirement he engaged in building and mechanical projects, going with Betty on several mission trips where he was involved in construction. His wife died in Sultan 2010. His death came on April 23, 2011.

Dr. Seaward was predeceased by his son Brad, who died in a small airplane crash, his twin sister, Frances, who died in 2004, and his wife Betty. He is survived by his sister, Barbara Wyman, and his son Ronn of Sultan, Washington.



*Dr. Marvin Seaward*

## Jack Sloan

**Jack Holt Sloan**, SD'63, born November 1926 in Pasadena, California, recalled one of his early accomplishments: as a teenager playing clarinet with the symphony at the Hollywood Bowl.

After serving in the navy during World War II, he com-

pleted a chemical engineering degree at the University of California Berkeley (1950) and spent the next nine years designing petroleum refineries and petrochemical plants in the United States, South America, and Arabia. Returning to school at USC, he completed predoctoral requirements in time to enter LLUSD's class of 1963.



*Dr. Jack Sloan*

When Dr. Sloan graduated, having received the California Dental Association award for commendable scholarship, clinical proficiency, and leadership, he established a practice in Paso Robles, California. There he served many years in the county dental society, becoming its president from 1987-88.

His 38-year dental practice was punctuated by donated dental services performed in many remote areas of Mexico and Ecuador, and at Sir Run Run Shaw Hospital in Hangzhou, China, where he directed a clinical training program for Chinese dentists. A past president of LLUSD Alumni Association, he was also a lifelong member of the National Association of Seventh-day Adventists Dentists. Dr. Sloan's community involvement included extended membership on the Paso Robles city and county boards of education and in the Paso Robles Rotary Club.

In retirement he and Doris worked with the Paso Robles Community Police Volunteer program, which resulted in his being named Volunteer of the Year 2007; he received a similar honor as City Volunteer in 2011. The Sloans were selected as the Paso Robles Family of the Year in 1986.

Dr. Sloan died March 27, 2012. He is survived by his wife of 58 years, Doris; his daughter, Linda Vanek (James), of Wildwood, Missouri; his sons, Paul (Suzanne), of Tahiti, and David (Susan), of Citrus Heights, California; and four grandchildren.

## Randolph Sun

Heart failure experienced at his home in Lakeport, California, ended the life of **Randolph** “Randy” (as his friends knew him) **Sun**, SD’74, on February 25, 2012, at the age of 63.

Born in San Francisco on April 18, 1948, Dr. Sun was a graduate of Pacific Union College (1970), Loma Linda University School of Public Health (1974), and Loma Linda School of Dentistry (1974). He founded and operated Sun Dental in Lakeport until 2010, when his daughter, Heidi Sun-Haley, SD’04, took over his practice.

Among his many activities, Dr. Sun was Lake County board director of the Redwood Empire Dental Society, president of the Konocti Electric Vehicle Club, and owner of Sigma Industries (a retail computer store). He also served in various leadership positions at the Lakeport Seventh-day Adventist Church.

His love of travel took him to many parts of the U.S., Canada, Mexico, Central America, Europe, and Asia, where he captured his memories in photos. Dr. Sun also had an aptitude for anything computer related, was involved in the audio-visual committee in his church, and also served as his own IT support at Sun Dental. “Randy was a devoted husband, father, grandpa, dentist, and friend to many,” say his family members.

He is survived by his wife Pamela of 36 years; his daughters, Dr. Heidi Sun-Haley (husband, Benjamin), Nicole and Krystal; and granddaughter, Elyse. In lieu of flowers, the family suggests that tax-deductible donations be sent to to ASAP (Adventist Southeast Asia Projects) at [www.asapministries.org](http://www.asapministries.org).



*Dr. Randall Sun*

## Henk Van den Hoven

The oldest member of the class of ’68, **Hendricus Van den Hoven** arrived at LLUSD after a life of unanticipated adventure.

Born in The Hague, The Netherlands, on June 30, 1926, Dr. Van den Hoven reached teenage years when his country was occupied by German troops, who drafted him into forced labor. Escaping from the work site, he fled from the south part of the Netherlands to the north. Wary of being captured at every turn, he finally dared to ask for refuge at a farmhouse. He hid there for months.



*Dr. Henk Van den Hoven*

At the war’s end, Dr. Van den Hoven was inducted into

military service by the Dutch. Deployed to Indonesia, he would not see his wife or firstborn child for two years. When he returned, the bakery where he had worked was no longer in existence. Because finding work was difficult, he moved his family to Australia, where he found work in very primitive circumstances. Ultimately sponsored by his brother, Pieter, in the United States, he arrived at La Sierra College (University now), where after two school years and two summers, Dr. Van den Hoven achieved acceptance to LLUSD.

Completing his dental education at the age of 42, Dr. Van den Hoven pursued general dentistry in Corona, California, and joined LLUSD’s restorative dentistry department, where he taught for 26 years. During that time he completed a master’s degree in educational administration at La Sierra University and became an associate professor at LLUSD.

Dr. Van den Hoven was retired in Loma Linda when he suffered a stroke and died nine days later on January 19, 2012. His family honors him for his determined mastery of life’s obstacles and his strong commitment to care for them. Mourning his death are his wife, Ester, of Loma Linda; his brother Pieter, LLUSM’59, of St. Helena, California; his daughter Ellen Morse (husband Merle) of Riverside, California; his son Raymond, LLUSM’77 (wife Debbie) of La Salle, Colorado; five grandchildren, and eight great grandchildren.

## Kenneth Wical

Embarking on a colorful career in 1956 after he completed dentistry at the University of Southern California, **Kenneth Wical**, DDS, MS, was soon fulfilling his military obligation by piloting a plane between Native American communities in Utah and Nevada to provide dental care.



*Dr. Kenneth Wical*

When he was released from the military, Dr. Wical joined LLUSD's restorative dentistry department for three years. Then he was off to Barrow, Alaska, where he both dog sledded and piloted a plane to reach native Alaskan patients in remote villages.

In a 1962 move to Keene, Texas, Dr. Wical was responding to an invitation

to establish a dental assisting and dental lab curriculum at Southwestern Adventist College (now Southwestern Adventist University). He remained to substitute for a college science teacher, presiding in college and high school general science, biology, and chemistry courses for 18 months. He would later credit this teaching experience as providential preparation for his subsequent, fulfilling career.

Dr. Wical returned to LLUSD in 1966, identified as the only available dentist with qualifications to satisfy criteria specified in a federal grant to open Monument Valley Medical Center in Utah. He again served Native Americans with a kaleidoscope of skills, for four years overseeing construction and operation of the clinic and supervising LLUSD seniors assigned to six-week rotations through the clinic.

After practicing privately for a year at Moab, Utah, Dr. Wical agreed to return to LLUSD after completing a master's degree in prosthodontics at the University of Washington. Thus, in 1973 the era of Dr. Wical's notable contribution to prosthodontics at LLUSD began. He would serve for 22 additional years in various roles—as clinic director, chair, and instructor. He achieved a reputation for unfailing kindness to students and patients. They called him “intelligent,” “compassionate,” “doing his homework,” “strong in all areas,” “on top of things.”

*(Concluded on page 58)*

## Douglas Yee

A fourth generation health care professional, **Douglas Yee**, SD'73, born in Sacramento, California, May 6, 1949, attended University of California Davis, and Pacific Union College before entering LLUSD's class of '73. He practiced dentistry in Sacramento, California, where he received the Sacramento Asian Dentist of the Year in 2001.

Dr. Yee maintained professional affiliations with local, state, national and international dental organizations as well as serving on the State of California committee on dental auxiliaries. For his service in over 20 community organization boards, he received public television KVIE's Local Hero of the Year award in 2006.



*Dr. Douglas Yee*

After practicing dentistry for 35 years, Dr. Yee retired in 2008, while continuing an active involvement in the community. As president and historical chair of the Chinese American Council of Sacramento, museum exhibits and cultural and educational outreach projects of the council received his innovative and thorough purview. His interest in Chinese American history inspired him to co-author and publish a book in 2008, *Canton Footprints*, which explores the forgotten legacy of early Chinese who came to Sacramento during the Gold Rush days.

When he died on March 18, 2012, just weeks after a diagnosis of cancer, Dr. Yee's many assets and interests were reviewed by acquaintances who called him generous, mischievous, fun loving, and humble. He had participated in golfing, boating, and a gourmet group, and also traveled extensively. The memory of his notable devotion to his family will be cherished by his mourners, which include Karun, his wife of 39 years; his son Darren (Julia) of Sacramento, California; daughter Debra Balagtas (Dean) of Edison, New Jersey; and one grandson.

The family suggests that memorials be sent to the Karun and Douglas Yee Family Fund at the Sacramento Region Community Foundation in Sacramento to support projects in organizations that Dr. Yee found meaningful.



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