

Loma Linda University
School of Dentistry



Biennial Report
2008–2009

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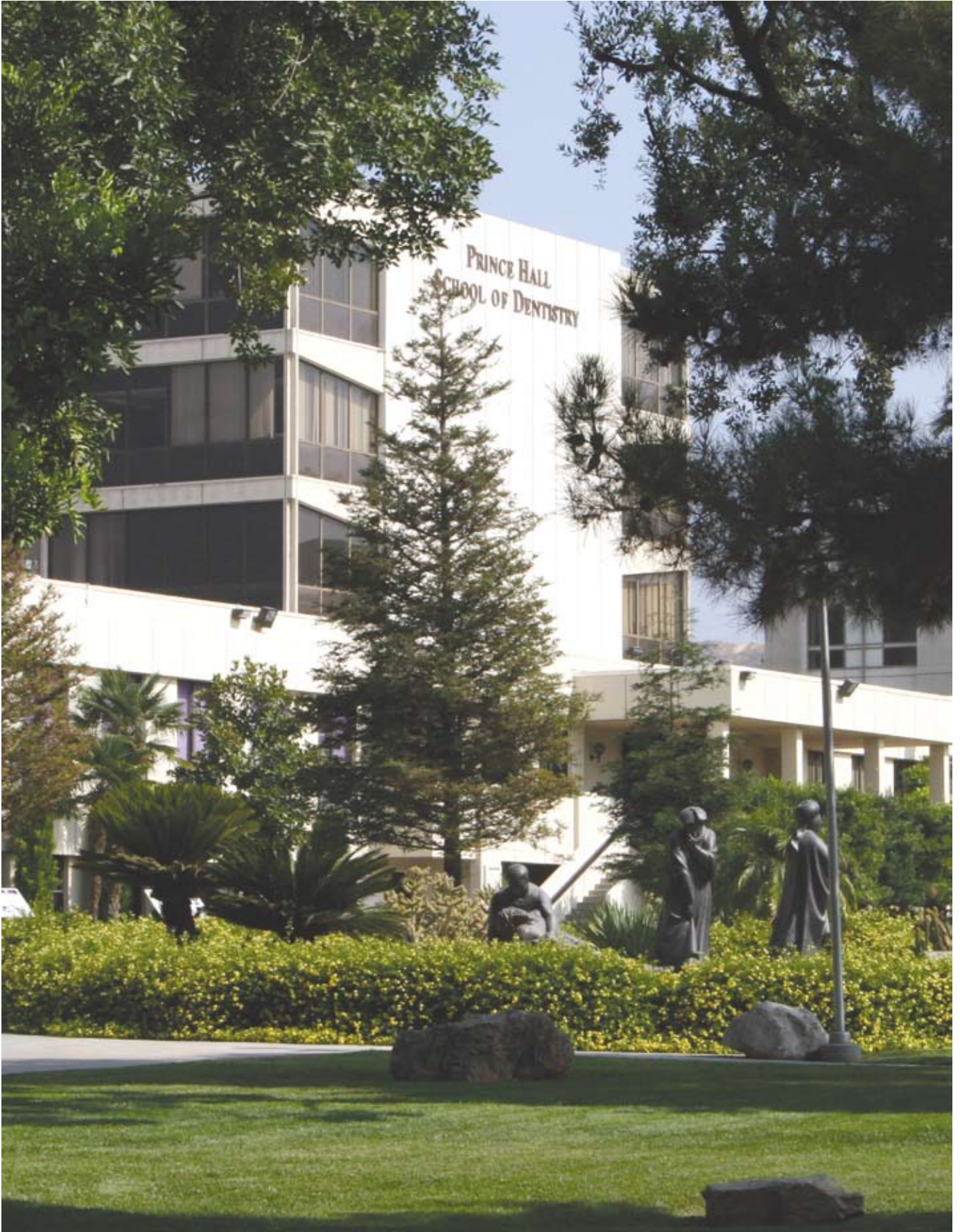
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ADMINISTRATIVE TEAM



Loma Linda University School of Dentistry administrative team (L-R): **D. Graham Stacey**, PhD, associate dean, Student Affairs; **Kathleen Moore**, MHIS, assistant dean, Dental Educational Support Services; **Joseph Caruso**, DDS, MS, MPH, associate dean, strategic initiatives and faculty practices; **Ronald Secor**, MBA, associate dean, Financial Administration; **Charles J. Goodacre**, DDS, MSD, dean; **Ronald Dailey**, PhD, MA, executive associate dean; **W. Patrick Naylor**, DDS, MPH, MS, associate dean, Advanced Education; **Fred Kasischke**, DMin, associate dean, Admissions and Service Learning; **Paul L. Richardson**, DDS, MEd, associate dean, Clinic Administration



LOMA LINDA UNIVERSITY

School of Dentistry

Office of the Dean

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I am pleased to provide you with this copy of the 2008-2009 Biennial Report for the School of Dentistry that highlights the people and activities that make this School a vibrant source of education, research, service, and patient care. While such a report cannot cover all the accomplishments and changes that have occurred over the past two years, it will give you some insight into what has transpired over that time period.

The main purpose for the existence of dental schools is to provide an excellent clinical education for students, so that they can perform comprehensive, competent dental care for the public they serve. We are proud of the knowledge, skills, and inquisitiveness our students acquire and demonstrate during their years with us.

The pursuit of excellence is a profession-spanning endeavor. And while we are pleased with the characteristics we observe in our students and the progress of their educational growth, we will never be satisfied with the status quo. Past,

and even current, excellence does not assure a continuum in the future of dental education. Like all organizations and institutions, the School of Dentistry must continually refine its vision and identify areas where the level of excellence can be enhanced.

Let me assure you that the Loma Linda University School of Dentistry family is committed not only to offering innovative, comprehensive educational processes, but also to seeking avenues to improve upon the education we offer. We are also committed to promoting an empowering and uplifting educational environment that incorporates spiritual values and includes extensive clinical experience for our students.

Our charge remains to train healthcare professionals who provide high-quality, oral health care that exceeds patients' expectations, while developing and expressing creativity that also advances the dental profession through research and scholarly activity.

I hope you enjoy this report.

Sincerely,

Charles J. Goodacre, SD'71, MSD

Dean



Charles J. Goodacre, DDS, MSD
Dean

Office of the Dean

Dean Charles Goodacre works as an administrator, educator, professional, researcher, thought leader, and innovator as he oversees Loma Linda University School of Dentistry’s expanding programs.

Biennium highlights

During the 2008-2009 biennium the School’s progress can be identified by a series of achievements:

- Successful re-accreditation of dental, dental hygiene, and advanced education programs with no recommendations for change from the Commission on Dental Accreditation site visit team
- Leasing of new office space for the orthodontics clinic and departmental offices, as well as a new faculty practice facility
- Incorporation of a surgical implant placement experience into the preclinical implant dentistry course for dental students
- Addition of cone beam computed tomography interpretation skills and the use of digital implant planning software to the implant dentistry course for dental students
- Establishment of two endowed professorships, one in endodontics and one in oral and maxillofacial surgery
- Significant participation (lectures and negotiations) by six LLUSD faculty at the World Health Organization meeting in Geneva, Switzerland, in July 2009, to initiate interaction of WHO with faith-based organizations

- Facilities upgraded in dental anesthesiology, the advanced education program clinic in endodontics, and the advanced education program clinic in prosthodontics.
- Creation and revision of several new electronic learning resources during the biennium. Corporate support was received for one of the resources, implant dentistry, so that it could also be provided to students and faculty at other schools in the country. Approximately 11,000 requests were received from students and faculty all over North America.

Professional participation

The dean maintains membership in 16 dental organizations. In addition, he gave leadership to two of them:

- During October 2008-2009, he served as president of the American College of Prosthodontists.
- Beginning in May 2009, he became president of the Academy of Prosthodontics

Further professional recognition came in 2008 when the ADEA Gies Foundation presented the dean with its William J. Gies Award for Outstanding Innovation by a Dental Educator.

Educational output

An innovator in electronic education, Dr. Goodacre, who has noted that the hallmark of dentistry is development of three-dimensional visualization skills, continues to produce sophisticated interactive, navigable, nonlinear electronic education resources for students. The following programs were developed during this biennium:

- Oral Cancer Screening CD-ROM, in 2008
- Electronic Atlas of Human Occlusion and the TMJ, a DVD-ROM completed in 2008 in conjunction with eHuman.com
- Color and Shade Selection CD-ROM in 2009
- Head and Neck Anatomy for Dentistry, the first comprehensive program deliverable over the Web, was developed in 2009.
- Completion of two textbook chapters, Chapter 40 in *Endodontics, 6th edition*, and Chapter 16 in *Endodontics Principles and Practices, 4th edition*

Research, teaching and lecturing

Participation in research added five refereed journal articles in 2009 to the dean’s impressive list of publications.

The dean participated in introductory courses for under-represented minority students.

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The dean's lecturing schedule during 2008 and 2009 took him to the following sites:

2008

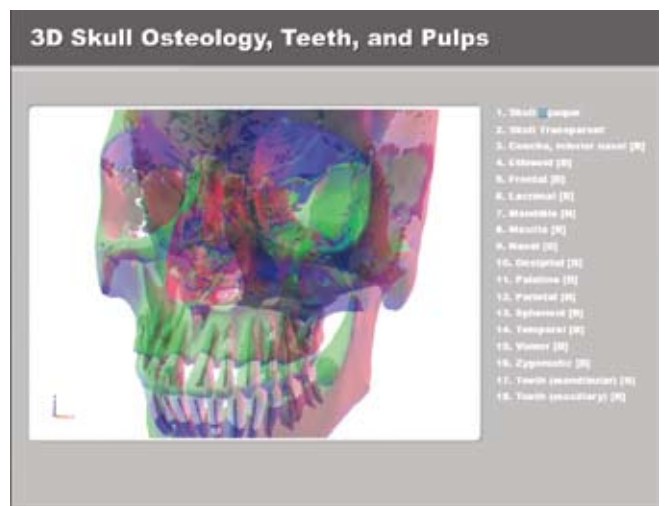
- ✦ University of Texas Health Sciences Center & American Dental Association session, San Antonio, Texas
- ✦ Ontario Dental Association, Toronto, Ontario
- ✦ Exploring Excellence Study Club, Eugene, Oregon
- ✦ Indiana University School of Dentistry Graduate Prosthodontics, Indianapolis, Indiana
- ✦ Prosthodontic Residence Program, Fort Gordon, Georgia
- ✦ Pacific Coast Society for Prosthodontics, Kona, Hawaii
- ✦ Orange County (California) Dental Academy
- ✦ Canadian Academy for Restorative Dentistry and Prosthodontics, Vancouver, British Columbia
- ✦ San Gabriel (California) Valley Dental Society
- ✦ American Academy of Implant Dentistry, Loma Linda University
- ✦ Wenzhou Medical College, Wenzhou, China

2009

- ✦ Rocky Mountain Dental Convention, Denver, Colorado
- ✦ American Academy of Fixed Prosthodontics and American College of Prosthodontists review course, Chicago, Illinois
- ✦ University of Minnesota School of Dentistry, Minneapolis, Minnesota
- ✦ Endodontic Study Club, Diamond Bar, California
- ✦ University of Southern California School of Dentistry, Los Angeles, California
- ✦ Washington Prosthodontic Society, Seattle, Washington
- ✦ King Faisal University College of Dentistry's Scientific Symposium, Dammam, Saudi, Arabia
- ✦ University of Maryland Dental School, Baltimore, Maryland
- ✦ Judson Klooster Symposium, Loma Linda University
- ✦ University of Connecticut School of Dental Medicine Prosthodontics, Farmington, Connecticut
- ✦ Sacramento District Dental Society, Sacramento, California

Furthermore . . .

In 2009, the dean welcomed his own son, Brian Goodacre (pictured right), to the dental class of 2013.



Head & Neck Anatomy for Dentistry is an interactive, digital teaching resource initiated and directed by Dean Goodacre that was brought into virtual reality by programmers in the School's Dental Educational Support Services at the end of the biennium. The application brings together a number of resources including image libraries, presentations, videos, interactive self-assessment, and brand new 3D content from eHuman Digital Anatomy.





Ronald J. Dailey, PhD,
Executive Associate Dean

Academic Affairs

The central role of the Office of Academic Affairs is to safeguard and nurture the School of Dentistry's educational mission. The office is specifically charged with the oversight of the School's dental hygiene and dental programs. It fulfills this responsibility by working in concert with University leaders, School administrators, faculty and staff to develop, implement, review and evaluate the academic and clinical programs. The office monitors the academic standing of all School of Dentistry students and oversees matters of registration, enrollment in and withdrawal from courses, management of the various curricula and graduation.

It is noteworthy that during this biennium, the School of Dentistry completed a successful site visit of all its accredited programs. The evaluations from the Commission on Dental Accreditation's site visit team were uniformly excellent. Although many administrators and faculty devoted much time and effort to preparing the institutional self-study, special recognition must be given to W. Patrick Naylor, DDS, MPH, MS, associate dean for Advanced Education, coordinator of the advanced education self-studies, Tom Rogers, SD'83, MA, director, Faculty Leadership & Development, Dental Education Services, coordinator of the pre-doctoral self-study, and Joni Stephens, DH'69, EdS, MS, professor, Dental Hygiene, coordinator of the dental hygiene self-study.

Academic honors

The Academic Excellence awards are based on scores that are at least one standard deviation above the national mean. The Gold Award is reserved for those who exceeded the national mean on both National Board Part I and Part II.

Dental student academic awards for 2008, 2009

Class of 2008

Silver awardees

Hyun Jin Bae, Kristi Chiang, Jessica Horricks, Tera Johnson, Jason Niemeyer, Ryan Rudd, Elisa Song, Helen Song, Janelle Yang

Gold awardees

Jeffrey Hwang, Nathan Latimer, Thomas Lee

Class of 2009

Silver awardees

Kimberly Bensonhaver, Kimberly Bentjen, Julie Catalano, Vanessa Chun, Devin Gerrard, Dennis Iverson, Tung Pham, Sonny Porter, Christopher Wood

Gold awardees

Carl Appleton, Jonathan Channer, Vincent Drouin, Benjamin Emery, Shaun Flynn, Nolan Korando, Parisa Pejman-Zadeh, Ivan Rees, Dennis Simental, Margaret Soh, Jasper Yai

Dental Hygiene student academic awards

The School of Dentistry gives academic excellence awards to dental hygiene students whose national board scores are at least one standard deviation above the national average.

2008 awardees

Erin Abston, Adrienne Alexandru, Lee-Anne Bautista, Chelsea Doyle, Tiffany Haack, Melinda Hall, Ashley Kraft, Mido Lee, Ryan Madsen, Kim Nelson, Rachel Rasco, Kati Schmalz, Megan Snider, Lindsey Thompson, Jennifer Williams

For a second consecutive year, all Department of Dental Hygiene graduates passed their national board exams on the first attempt.

2009 awardees

Melissa Beesley, Kerri Booker, Kelli Boyd, Rebecca Burke, Ashley Fujikawa, Tiffany Harris, Jessica Hatch, Rokhsana Kouroshnia, Lori Lujan, Katelyn Malone, Chelsey Martin, Lauren McEowen, Melissa McEwen, Merinne Mesku, Jaclyn Ortiz, Jamie Patton, Tracy Robertson, Leslie Ross, Amy Russell

Scores returned April 30, 2009, from the Joint Commission on National Dental Examination indicate that for a third consecutive year all the graduating LLUSD dental hygiene students passed their national board exams. Furthermore, the average score of the School's 41 graduating hygiene students was 88.7—4.3 points (approaching one standard deviation) above the 84.4 national average.

Clinical honors program completion

The clinical honors program is designed to provide dental students opportunities to learn and perform more advanced clinical procedures in a given discipline. In addition, the Dental Education honors program is designed to foster interest in an academic dental career in teaching and research. Students accepted into the program do not receive additional clinic points for their advanced learning and must complete all competency clinic requirements. Successful honor students must maintain a class rank in the upper third of their class both academically and clinically. These are the elite dental students in the School of Dentistry. The following students achieved the honor distinction:

Class of 2008

Jessica Horricks	Dental Education
Patricia Ramos	Dental Education
Jonathan Reth	Dental Education
Elisa Song	Dental Education
Christopher Hanson	Implant Dentistry
Phillip Horsley	Implant Dentistry
Neal Johnson	Oral Maxillofacial Surgery
Nathan Latimer	Oral Maxillofacial Surgery
Bryan Fletcher	Pediatric Dentistry
Jennifer Clark	Periodontics
Brian Lin	Periodontics
Janelle Yang	Periodontics
Andrey Ustinenkov	Prosthodontics
Teaching Assistantship	Prosthodontics

Class of 2009

Devin Gerrard	Orthodontics
Shaun Flynn	Orthodontics
Claire Lee	Orthodontics
Kimberly Bentjen	Oral Maxillofacial Surgery
Special D4	Oral Maxillofacial Surgery

Sonny Porter	Oral Maxillofacial Surgery
Special D4	Oral Maxillofacial Surgery
Vincent Drouin	Conscious Sedation
Sonny Porter	Conscious Sedation
Julie Catalano	Pediatric Dentistry
Shaun Flynn	Pediatric Dentistry
Carl Appleton	Dental Education
Jonathan Channer	Dental Education
Dennis Iverson	Dental Education
Sue Jean Park	Dental Education
Dennis Simental	Dental Education
Louis Yap	Dental Education
Mark Brown	Implant Dentistry
Prashant Verma	Implant Dentistry
Jasper Yai	Implant Dentistry

Teacher of the Year awards (chosen by students, faculty, and staff) 2008, 2009:

The Teacher of the Year Award was established to recognize and honor School of Dentistry faculty members whose accomplishments have made an extraordinary impact on students, peers, and the School family. Each year a full-time faculty member is chosen for this award based on having demonstrated an outstanding reputation as a teacher, and having contributed to the quality of the School, the community and the church.

2008

Robert A. Handysides, SD'93, PG'01, chair, Department of Endodontics, LLU School of Dentistry

Student comments

- + He is by far one of my favorite instructors. He makes the course more interesting and fun.
- + I can tell he really cares about students and is here to teach because he wants us to learn. He is helpful and, above all, funny.
- + Dr. Handysides may be the best instructor in the School, hands down!

2009

Kenneth R. Wright, Ph.D., assistant professor of Pathology and Human Anatomy, LLU School of Medicine

Student comments

- + This course is probably the best organized course I have ever taken. I have never taken Gross Anatomy before and this class makes it fun and moves at a challenging but reasonable pace.

- Dr. Wright is humorous, humble and very helpful in conducting the course. He genuinely cares about students.
- Dr. Wright is one of the best professors I have experienced at any school. He injects a bit of humor into his lectures which makes them enjoyable.

Distinguished Service Award

2008

Chuck Yetter

Chuck Yetter joined the School in 1977 in the Dental Maintenance Department for a brief time and then returned to the School in 1988 when he was recruited as the assistant director of Dental Maintenance. In 2000 he became Director for Dental Maintenance and served the School with a buoyant spirit and “can do” attitude. At his retirement in 2008, he received an outpouring of accolades and expression of gratitude from students, staff and faculty for his ability to help make the School a special place to work.

2009

Steven G. Morrow, SD’60, MS, professor, Department of Endodontics

Dr. Morrow has been a member of the faculty for 31 years, with current rank of Professor in Endodontics. He has served in many capacities, including chair of the Department of Endodontics, Director of Patient Care Services and Clinical Quality Assurance, and director of the Radiologic Clinic. Dr. Morrow has had a strong influence on the development of the School of Dentistry’s curriculum and shaping our clinical services. His contributions are characterized by excellence in teaching and administration and he always brings a voice of reason to committees and advisory bodies.

Distinguished Research Award

2008

Mahmoud Torabinejad, DMD, MSD, PhD, professor and program director, Department of Endodontics

Dr. Torabinejad has been affiliated with LLU School of Dentistry since 1977. He has maintained an active research program focused upon identification of mediators of inflammation in the pulp and periradicular disease. His most significant contribution to clinical dentistry has been the development of two dental materials in 1994: mineral trioxide aggregate (MTA) and a mixture of tetracycline, an acid, and a detergent (MTAD). More than 60 publications have been devoted to the investigation of MTA worldwide.

His publication list is lengthy, with more than 160 articles in professional journals. He has authored more than 80 abstracts, textbook chapters and textbooks, including co-authorship of Principles and Practice of Endodontics, the most widely used endodontics textbook for dental students in the United States.

2009

Yiming Li, DDS, MSD, PhD, director, Center for Dental Research

Dr. Li is heavily involved in research that has included more than 300 laboratory studies and clinical trials. He has received grants with budgets totaling in excess of \$15 million. In addition to his publications – more than 200 articles, book chapters, and abstracts – Dr. Li also regularly reviews manuscripts for such prestigious peer-reviewed publications as Journal of the American College of Toxicology and Journal of Dental Research. Dr. Li is currently a consultant to the U.S. Food and Drug Administration, the American Dental Association, and the California Dental Association; and has served on numerous American Dental Association committees. Dr. Li was recognized for his outstanding scholarship, illuminating teaching, significant contributions to the profession of dentistry, and distinguished service to Loma Linda University and the School of Dentistry.

Curricular and academic innovations

- Development of an electronic curriculum management system that includes a syllabus template, topic coding, and a curriculum map for each program.
- Implementation of a classroom response system (clickers) into classrooms. The use of classroom response systems enables instructors to rapidly collect and analyze student responses to questions during class and has proven to both engage students in course material and provide valuable feedback on student learning and perspectives for instructors.
- The curriculum committee approved a new Curriculum Management Plan designed to:
 - Compare course learning outcomes to the curriculum map
 - Evaluate course syllabus content
 - Review student evaluations of courses
- Curriculum Committee approved a new Bachelor of Science in Dental Hygiene degree. The purpose of this program is to enable licensed dental hygienists who complete an Associate of Science degree to earn a Bachelor of Science degree which makes them competitive for career opportunities in industry, public health and education.

Dental education textbook publication

Biostatistics for Oral Healthcare, Jay S. Kim, PhD, professor of Dental Education, and Ronald J. Dailey, PhD, associate professor of Dental Education and executive associate dean of the School of Dentistry. Published by Blackwell Munksgaard (2008), now part of the Wylie Publishing Company, the volume was written to provide students and dental researchers with a comprehensive guide to biostatistics applied to oral healthcare. The text draws on scenarios from the dental profession and enhances its technical discussions with multiple examples from the real world practice of dentistry.

Endodontics, Principles and Practice, 4th Edition, Mahmoud Torabinejad, DMD, MSD, PhD, Professor & Program Director, Department of Endodontics and Richard E. Walton, DMD, MS, Professor, Department of Endodontics, The University of Iowa, College of Dentistry, Iowa City, Iowa. Published by Saunders (2008), the most widely used endodontics textbook for dental students in the United States.

Ingle's Endodontics 6, Leif K. Bakland, DDS, Professor, Department of Endodontics, co-author with, John I. Ingle, DDS, MSD, Lecturer, Loma Linda University School of Dentistry, J. Craig Baumgartner, MS, DDS, PhD, Professor and Chairman, Department of Endodontology, Oregon Health & Sciences University, Portland, OR. Published by B C Decker Inc (2008)

Introduction to Metal-Ceramic Technology, 2nd Edition, W. Patrick Naylor, DDS, MPH, MS, Professor, Department of Restorative Dentistry and Associate Dean, Advanced Education Program. Published by Quintessence Books (2009)

Breath: Causes, Diagnosis and Treatment of Oral Malodor, Sean Lee, DDS, Associate Professor, Department of Restorative Dentistry.

Faculty statistics

	FT	PT	Vol
Professors	17	10	9
Associate professors	35	20	16
Assistant professors	64	193	107
Total:	116	223	132



Tom Rogers, DDS, MA
Director, Faculty Leadership Development

Faculty Leadership Development

Tom Rogers, SD'83, MA, was appointed in 2009 to the newly-created position of director, Faculty and Leadership Development.

The primary purposes of this new position are (1) to provide guidance and assistance to faculty who are considering applying for promotions, and (2) facilitate the development of leadership skills in faculty who have an interest in leadership roles.

In his new capacity, Dr. Rogers will develop clear processes and procedures that will enhance the clarity and usefulness of applicant portfolios, and in addition serve as a reviewer of portfolios to help determine when an application is ready for submission to the Faculty Promotions Committee.

To further facilitate the advancement of interested faculty, Dr. Rogers is working to make the revised and improved advancement application process available online.



Esther Valenzuela, MBA, MA
Director, Admissions

Admissions

As one of a select few faith-based dental schools in the nation, LLUSD recruiters look for a very specific person to admit into its programs.

Accepted candidates will enter the only dental school in the nation which includes all three of these components:

- Required chapel attendance
- Religion courses
- Service learning requirements (120 hours for dental students, 75 hours for dental hygiene students).

To be compatible with the school's objectives, student selection seeks evidence of distinctive attributes:

- Altruism as a focus
- A desire to grow spiritually, mentally, and ethically
- Comfortable accommodation to an ethnically diverse campus population

Looking at a student profile, the Admissions Committee members want to know . . .

- Does the student have active involvement with church and community?
- Has the student been involved in any outreach activities?
- Has the student had extensive exposure to the dental profession?

These distinctive admissions dimensions are designed to enhance student experience and ultimate commitment.

When Tiffany Beale, class of 2013, visited the LLU campus during her senior year at Oakwood University, her undergraduate performance had already prompted scholarship offers at several dental schools. "Somehow," she says, "none of the schools felt right. Something was missing at those schools. When I came to Loma Linda, the atmosphere, the facilities, and the people felt right." She cites the words of admissions officer, Marlise Perry, "We want you here because you can contribute to the School." With several schools to choose from, Tiffany chose Loma Linda University School of Dentistry.

Class profiles

The class profiles for students admitted in 2009 indicate a record high of applicants (2,164), and a record high of five men entering the dental hygiene class in 2009. The male/female distribution in the dental class (70/30 percent) places females 10 percent below the national average.

Doctor of Dental Surgery	Class of	
	2012	2013
Total applicants	1,997	2,164
Total accepted	100	100
Females	32	29
Males	68	71
Average age	25.5	27
White, non-Hispanic	34	36
Asian	49	46
African-American	4	6
Hispanic	7	6
Unidentified	6	6
Average entering Science GPA	3.4	3.3
Average entering DAT AA	19.4	19.0

Dental Hygiene	Class of	
	2010	2011
Total applicants	118	119
Total accepted	41	42
Females	39	37
Males	2	5
Average age	24.8	25
White, non-Hispanic	21	24
Asian	9	8
African-American	3	3
Hispanic	7	7
Unidentified	1	0
Average entering Science GPA	3.1	3.2



Fred Kasischke, DMin
Associate Dean, Admissions and
Service Learning

Service Learning

Since 1998, when NASDAD’s (National Association of Seventh-day Adventist Dentists) board voted a five-year endowment of \$50,000 to support a LLUSD service learning program, service learning has become a prominent part of the curriculum for dental and dental hygiene students and students in the International Dentist Program, where the motto, Service Is Our Calling, has become personified through them.

Local sites

During the 2008-09 biennium, the service learning program coordinated the departure of approximately 50 students monthly and 60 students weekly to render service at nearby sites.

Typical activity for dental and/or dental hygiene students during the 2008-2009 took them to these sites:

Service Learning Sites	bi-weekly	weekly	monthly
Lugonia Elementary School		DDS	
Victoria Elementary School		DDS	
Baldyview ROP		DDS/DH	
Thermal School (Mecca)	DDS / DH		
29 Palms Dental Clinic	DH		
Compassion Clinic			DDS/DH
Share Ourselves (SOS)			DDS
Assistance League of Redlands		DDS/DH	
SACHS Dental Clinic		DDS/DH	
Riverside Presbyterian			DDS

Mobile clinic

LLUSD’s mobile dental clinic visited elementary schools in Redlands and San Bernardino on a weekly basis, where the children enrolled there could receive dental fillings and extractions. In monthly visits to a homeless shelter in Riverside, team members offered similar service to the shelter’s adults-only guests. The mobile clinic team also scheduled yearly visits at a dozen other locations, where low-income people were concentrated. For example, four dental students, supervised by Perry Burtch, SD’89, assistant professor, went to the San Bernardino Salvation Army in February 2009. Working in the School’s mobile clinic—an RV equipped with two dental chairs, an x-ray station, and sanitizer—the team provided dental care for 16 guests housed at the site.

A distinctive segment of David Brodeur’s (SD’71, MPA) faculty appointment (assistant professor, Restorative Dentistry) is a twice-weekly trip to the site of a clinic at the School Readiness Program in Thermal, California. Every Tuesday and Thursday five dental seniors join him in a van. Once a week he adds a pediatric resident and two dental hygiene seniors. The clinic is 100 miles away. The trip affords time for discussion of real-life dentistry and opens the students’ eyes to a different way of life in dentistry. Dr. Brodeur estimates that 15 to 20 percent of the students have said to him, “In this setting I have found what I want to do with my life.” He adds, “That’s what happened to me as well.”

The clinic—five chairs packed into a small room—is a busy place. ““We see 18 to 25 patients each day,” says Dr. Brodeur, “mostly children, two to fourteen years of age. It’s almost exclusively a pediatric practice—lots of fillings and extractions.”

Dr. Brodeur speaks solemnly of the patients. “It’s sad to find children two to three years old needing dental care. Most of their parents (many undocumented) work in the date groves. There’s a wide disparity between the owners and workers. These are people without resources.”

Speaking for himself and his teaching colleagues, Dr. Brodeur says, “We are not here to get rich. We love what we do. We can give students the experience that it takes to run a practice. We have learned from life.”

Clinic With a Heart

An annual event, Clinic With a Heart provides a day-long opportunity for service learning. Data for 2008 and 2009 memorialize the response of dental personnel and the community.

The statistics only dimly represent myriad personal stories. One of the 2009 stories began at 4 a.m. when eleven homeless men arrived, one walking on crutches. Toting backpacks from their hangout under a nearby

Participation in Clinic With a Heart

Year	Volunteers*	Adult patients	Pediatric patients	Value of procedures for adults**	Value of pediatric procedures**	Total value
2008	463	232	41	\$23,396	\$11,983	\$35,379
2009	403	283	39	\$31,137	\$10,640	\$41,777

*Volunteers included faculty, students, and staff

**Value of procedures is based on School of Dentistry prices, not regular practice fees

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Dental student Lisa Gortari, class of 2010, treats a Raiders fan during the 2008 Clinic With a Heart Sunday.

bridge, the homeless men joined the long line of waiting patients.

As the morning wore on, the men asked to use bathroom facilities. Mary Hartwell, the School's dental clinics manager, gave them directions. Using the facilities in turns, they guarded each others' backpacks. When one of the party emerged, complaining about the absence of paper towels in the bathroom, his buddies chided him, "Think, man! You don't even have water where you live!"

Upon completion of their dental procedures, the eleven grateful men, ranging in ages from 40 to 75, approached Mary Hartwell again: "We want to do something for the School of Dentistry. Could we wash the windows in the School?" Explaining that their offer could not be implemented, volunteers pressed toothbrushes and toothpaste kits into their hands.

International mission trips

Facilitating enrollment for international service opportunities, registration became available online in August 2008. At the initial registration, 61 students successfully registered for six mission trips—Bangladesh, Guatemala, Loreto, Mexico, Ukraine; MEND in Pacoima, California; and La Vida Mission in New Mexico—between August 10 and August 16.

Moving a dental team overseas requires lots of paper work and myriad communiqués. The service learning personnel go into high gear to achieve the necessary trip protocol:

- Who are the supervising faculty?
- Do we have a State Department travel warning for the proposal?
- Are letters of invitation from the country and cooperating agencies available?
- Are the tickets ordered?
- Are student applicants in good standing?
- Are students alerted to attend orientation meetings?

After the trip, assessment and reflection continues. Was it worthwhile? Two students respond following a September 2009 visit to Bangladesh.

I've traveled to many third-world countries in my time. I was even born in one. But to call Bangladesh third-world is an understatement about a country where forks and spoons are a luxury and health insurance is an urban legend, where 90 percent of the 159 million people



Clinic With a Heart volunteers create one of several rows of dental care service.

deny the divinity of Christ, or have never even heard of Christianity. For seven days I witnessed people with the will and desire to accept what they cannot see—the Good News. That was the miracle I witnessed in Bangladesh in September 2009.

I was awakened at 3 o'clock in the morning by the sounds of people who wanted us to treat their ailments as they fought for a space in the line that was already forming. It hit me then how we were their hope for treatment that was so scarce and unavailable to them. I feel that I must somehow make my way to that country again in the near future, because, although we saw about 3,000 people, we only made a little dent in changing lives for the better.

Under-represented minority recruitment

The number of incoming under-represented minority students (URM's) showed an increase during the biennium. Of the 605 students enrolling at LLUSD for the 2008-2009 academic year, 67 were under-represented minorities (46 Hispanics, 20 African Americans and 1 American Indian). Twelve URM students have been accepted to enter the class of 2014.

A report in *The Hispanic Outlook in Higher Education* (May 4, 2009) indicated that LLUSD had tied for ninth place among the top 100 colleges offering doctoral degree programs to Hispanics.

2009-2010 marked the final year of the Pipeline grant, directed by Dean Charles Goodacre, SD'70, MSD, and Margie Arnett, MS, assistant professor, which provided tuition, books and housing as part of a post-baccalaureate program for students previously unsuccessful as dental school applicants. Of the four students admitted to the 2008-2009 Loma Linda University School of Dentistry Post-Baccalaureate program directed by Dan Tan, SD'75, three were accepted into the class of 2013.

The post-baccalaureate students participate each year in a four-week Southern California summer program on the campuses of LLU, UCLA, and USC, receiving individualized assessment of academic strengths and limitations before pursuing an academic year of studies, worships and tutorials designed to enhance their competence. In a workshop, "Above the Bar," students also received assistance with study and test-taking skills. Online descriptions of the post-baccalaureate program gave it wide exposure. (See <http://www.explorehealthcareers.org/en/Program.700.aspx#>.)

Enrichment programs for dental school aspirants

Loma Linda University School of Dentistry continues to provide various summer-enrichment programs and an early selection agreement with students from feeder colleges.

Careers in Dentistry

Attendance at “Careers in Dentistry” increased in size each year for three years, with the 2008 event “sold out” in two weeks, lacking space for 50 people on the waiting list.

Minorities in Dentistry

Two participants in the 2008 Minorities in Dentistry program, both graduate nurses seeking to extend their healthcare education, are now members of the class of 2012. They describe their appreciation for the introductory program:

It gave a highlighted view of the whole field of dentistry—radiology, endodontics, pediatrics. There’s a large support base for minority students here. We were able to ask questions like, “How do finances work?” and “How do you make it through dental school?”

We got to interact with a Hispanic woman, a black man, an Indian! That changes the perspective of students in the community. When you see someone who mirrors you, it brings a whole new meaning to the aspect, “I can do it.”

Minorities Interested in the Health Sciences

Dr. Leroy Reese from the School of Medicine started the MITHS program (minorities interested in the health sciences), a three-week summer enrichment program. The School of Dentistry has been actively participating since the program’s inception and in both 2008 and 2009, 20 African-American high school students participated in science classes and explored the professions of dentistry and medicine.

Si, Se Puede

Begun in the late 1990s, the recruitment initiative *Si, Se Puede* (“Yes, we can”), hosted Latino high schoolers, introducing participants (47 in 2008, 50 in 2009) to careers made possible by their scholastic achievements. Participants toured the School, met dental students, learned about oral health care careers and carved a tooth out of clay. Loma Linda University School of Dentistry also staged annual visits from a primarily under-represented minority high school in Los Angeles, a direct “feeder” at the high school level.

Cultural competency curriculum

In addition to cultural diversity discussions and workshops for faculty and students, this program, an initiative involving all five California dental schools, is designed to create a more diverse student population and to increase access to care for the under-served in California. Numerous hours of cultural competency topics added into the curriculum elicited positive student response.

Faculty education and recruitment

In its commitment to diversity, LLUSD has instituted a faculty education program and an aggressive recruitment of under-represented minority faculty members. Two underrepresented minority PhD basic scientists have completed their dental education in exchange for a long-term contractual commitment to teach at LLUSD; both are now full-time faculty members.

Diversity committees

The LLUSD diversity committee consists of eight faculty representatives. This year an additional task force was created by the dean for a one-year term. The committee members interact on boards of community partners rather than meeting regularly with an external advisory committee.

Focusing on retention efforts, a student-based diversity committee initiated during the 2007-2008 school year consists of nine active student members, two faculty members (Ron Forde, SD’83, and Margie Arnett, MS), alumnus Alan Woodson, SD’87, and is coordinated by Marlise Perry, assistant director of admissions.

Hispanic Scholarship and Recognition Awards

At the Twelfth Annual Hispanic Alumni of Loma Linda University banquet on October 12, 2008, Rosemary Morgan, class of 2010, was among ten recipients of the 2008 Hispanic Scholarships, and alumnus Richard Gutierrez, SD’90, MS’95, received the organization’s Special Recognition Award.



Paul L. Richardson, DDS, MEd
Associate Dean, Clinic Administration

Clinic Administration

Overall this has been a busy, but productive two years for Clinic Administration, as care for patients continued at a high volume with no sacrifice in quality. December 31, 2009, marked the cessation of the adult DentiCal dental program. Many adults who received care at LLUSD have lost their public assistance. At the same time, California has been greatly affected by the recession resulting in high unemployment and loss of insurance benefits. The potential patient pool has remained high; last year over 16,000 individuals who had an interest in becoming patients contacted the School. It is predicted this increased volume will continue since fees remain low and the School has become one of the few places to receive dental care at a reduced rate.

A 300 percent increase in patients served in urgent care at the School of Dentistry is due to multiple factors, but high on the list is the way operations have been redesigned by Reggie Padgett, SD'82, who exhibits a high level of care for patients in need and vigor in treating those patients. Not only does this mean a valuable resource for the community is more available to meet their needs, but it increases the educational opportunities for our students.

Faculty transitions

The group practice model continued with some slight modification when Brian Black, SD'00, resigned as Clinical Group Practice Director to establish his own dental product line and dental supply company. Dr. Richardson assumed his role as part of the day-to-

day operations of Clinic Administration. This change has given direct interaction between the group leaders and Dr. Richardson, creating a less complicated line of communication.

IDP clinic management has merged with main clinic. While IDP retains its own clinic, all clinical faculty are under Clinic Administration and their group leaders meet with main clinic group leaders for weekly management meetings.

With the move of IDP director Michael Fitzpatrick, SD'87, to a special projects role in Clinic Administration, Greg Mitchell, SD'84, became IDP director and is hard at work.

Electronic record advances

Clinic record management has become completely paperless. All documents are created or retained in an electronic format. All radiographs are now made as digital images and are stored on a DICOM server that is accessed through the electronic record, thereby tying the patients' documents together under one system. At the end of 2009, the central dental laboratory was poised to go paperless, once again creating an electronic lab form, billing process and tracking. With the predoctoral clinic completely electronic, the postdoctoral clinics are still creating a paper lab form, but are being tracked electronically. By the end of April 2010 all laboratory prescriptions for the entire dental school will be electronic.

Loma Linda University has become actively involved in the development of the electronic record. Mrs. Marina Moore is director of Clinical Information Management. She and Dr. Richardson, with the help of the entire information system, have been providing site visits for other dental schools that are moving to the electronic system, axiUm. To date, site visits or teleconferences have been provided for four dental schools. This year the School joined the research consortium of axiUm and became charter members of the financial consortium. This activity will help grow the School's own program, as interactions occur with other institutions. In addition, LLUSD will gain access to a large data pool for clinical research and best practices in the financial management process. Balsam Jekki, BDS, and Dr. Greg Mitchell presented the School's use of electronic records to teach diagnosis and treatment planning.

Student awards

The class of 2009 created some records in the utilization of the clinic experience to maximize their clinical knowledge. Ten group clinic awards and, as a first time event, two overall clinic achievement awards were given to students. Each recipient received a beautifully engraved glass plaque depicting Mt. Whitney with a description of their achievement, as well as a monetary gift.

Communication with clinical faculty and students about materials, policy changes and protocols is always difficult. Nathan Dinsbach, SD'04, has created a communication newsletter that is edited and published by him. This document has proved to be a valuable and rapid way to "get out the word." To further this process a learning center has been established on the old orthodontic scheduling office that is used as a lunch and learn site for computer training and treatment planning seminars. This room was efficiently rehabbed by Thomas Milsom, including patching and painting the walls and providing some furniture from storage. This is the first time clinic has had a learning site that can seat ten people for close encounter interaction with a trainer or a small group utilizing electronic records to discuss care plans and care process.

2008 Senior Student Awards

The Group Clinical Achievement Award

This award is given to those students that best exemplify the characteristics of a dentist that rise above the standard expectations. These would include:

- Above average clinical performance,
- Individual growth
- Organized efficiency
- Accomplishing requirements while helping others
- Demonstration of grace and caring toward patients

Jamie Lee
 Jeffery Firestone
 Andrey Ustinekov
 Janelle Yang
 Chris Hanson
 Michelle Wall
 Kari Ann McKenzie
 Joel Micklewait
 Patricia Ramos

Overall Clinic Achievement Award

This award goes to one student in each class who exhibits superior traits.

Phil Horsley, SD'08

2009 Senior Student Awards

The Group Clinical Achievement Award

Dennis Simental
 Jasper Yai
 Ronald Yap
 Yoonhyeok Choi
 Kimberly Eek
 Sue Jean Park
 Young Chul Park
 Scott Seaman
 Luiza Narsisyan
 Angela Lee
 Sharon Foster

Overall Clinic Achievement Award

Shaun Flynn, SD'09
 Vincent Drouin, SD'09

Primary attending faculty

- Zina Johnston, SD'00, assistant professor, took the place of the late Andy Blount, SD'77.
- Holli Riter, SD'98, assistant professor, returned from research and took the place of Doris Kore, SD'01, assistant professor. Dr. Kore entered the Advanced Education Program in Prosthodontics.
- Rami Jekki, SD'06, assistant professor, entered the Advanced Education Program in Prosthodontics and was replaced by Ronald Sorrels, SD'73, assistant professor.

Administration

- Brian Black, SD'00, resigned as director, Division of Clinical Dentistry.
- Gregory Mitchell, SD'84, assistant professor, replaced Michael Fitzpatrick, SD'87, professor, as the director of the International Dentist Program.

Faculty returning from completion of a graduate prosthodontic program

- Madelyn Fletcher-Stark, SD'00, MS, assistant professor
- Robert Walter, SD'99, assistant professor

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Kathleen Moore, MHIS
Assistant Dean

Educational Support Services

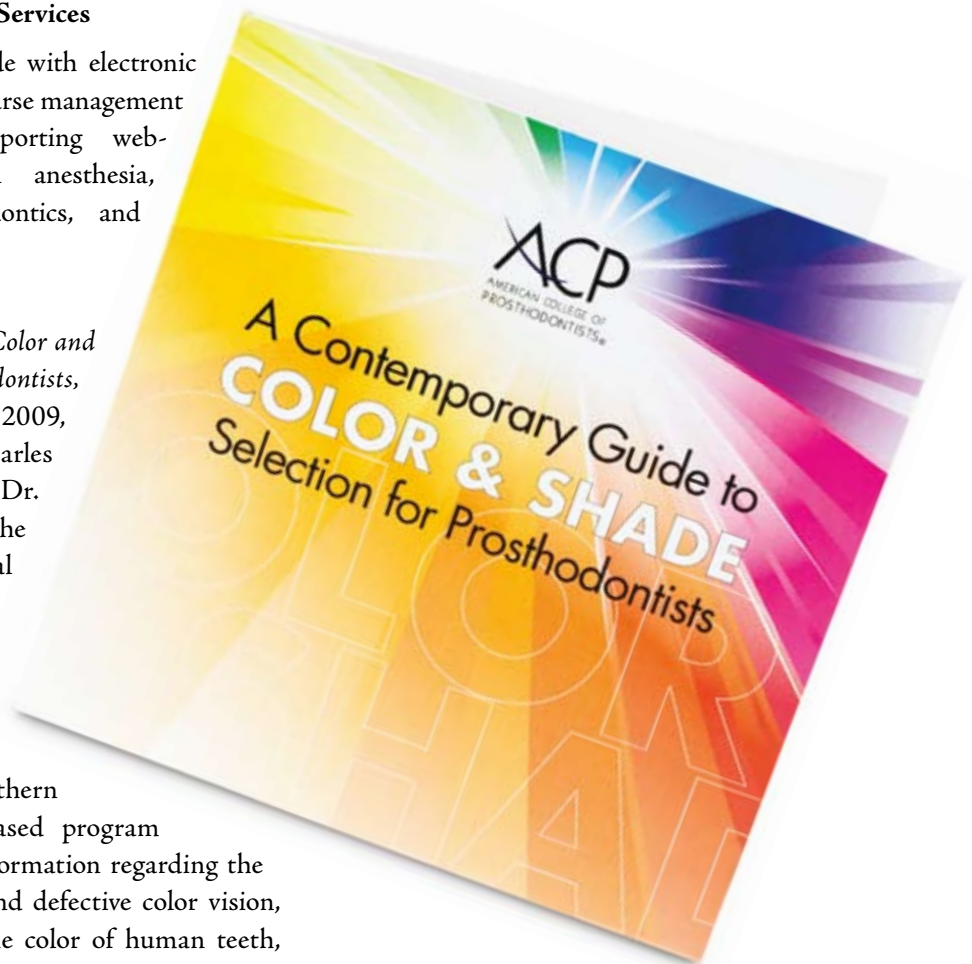
Advances continue to be made with electronic learning tools, utilizing the course management system, Black Board supporting web-based material in dental anesthesia, implant dentistry, prosthodontics, and orthodontics.

Publications

- *A Contemporary Guide to Color and Shade Selection for Prosthodontists*, which was completed in 2009, authored by Dean Charles Goodacre, as well as Dr. Rade Paravina from the University of Texas Dental Branch at Houston, Dr. Stephen Bergen from New York University College of Dentistry, and Dr. Jack Preston from the University of Southern California. This DVD-based program presents contemporary information regarding the science of color, normal and defective color vision, how color is described, the color of human teeth, dental shade guide designs, and guidelines that

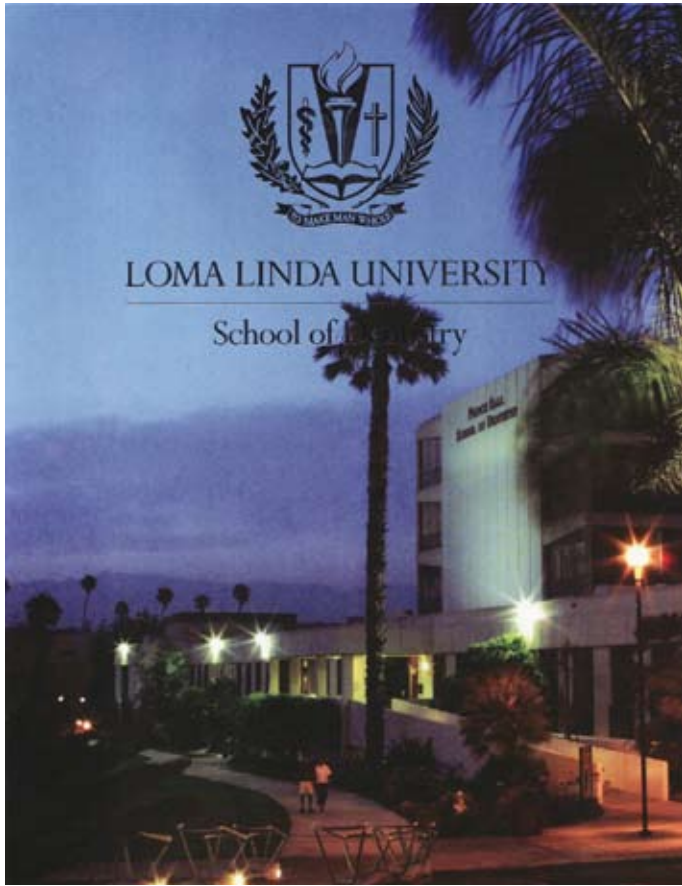
establish an optimal environment for shade selection and enhance the development of clinical color matching skills. Additionally, videos are included that show various methods by which shade selection can be accomplished clinically.

- A comprehensive re-write and re-design was accomplished for the admissions brochure, which presents information on the dental program, the International Dentist Program, the dental hygiene bachelor's program, and the dental hygiene degree completion program.
- A booklet for the care of dentures was authored by Nadim Baba, DDS and designed by Educational Support Services manager, Joe Arnett. Plans for further booklets are in the works, to provide patient education in a variety of disciplines.

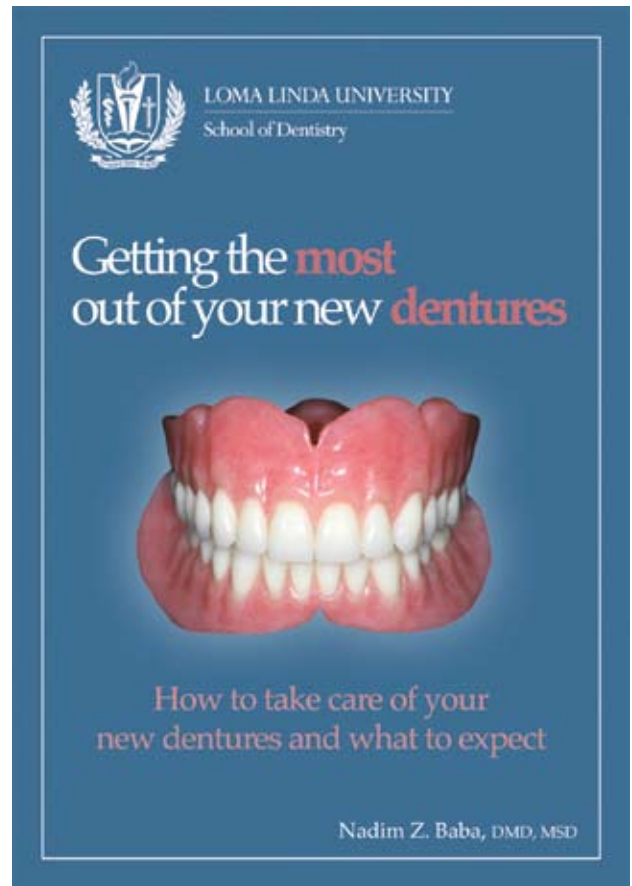


DENTAL EDUCATIONAL SUPPORT SERVICES

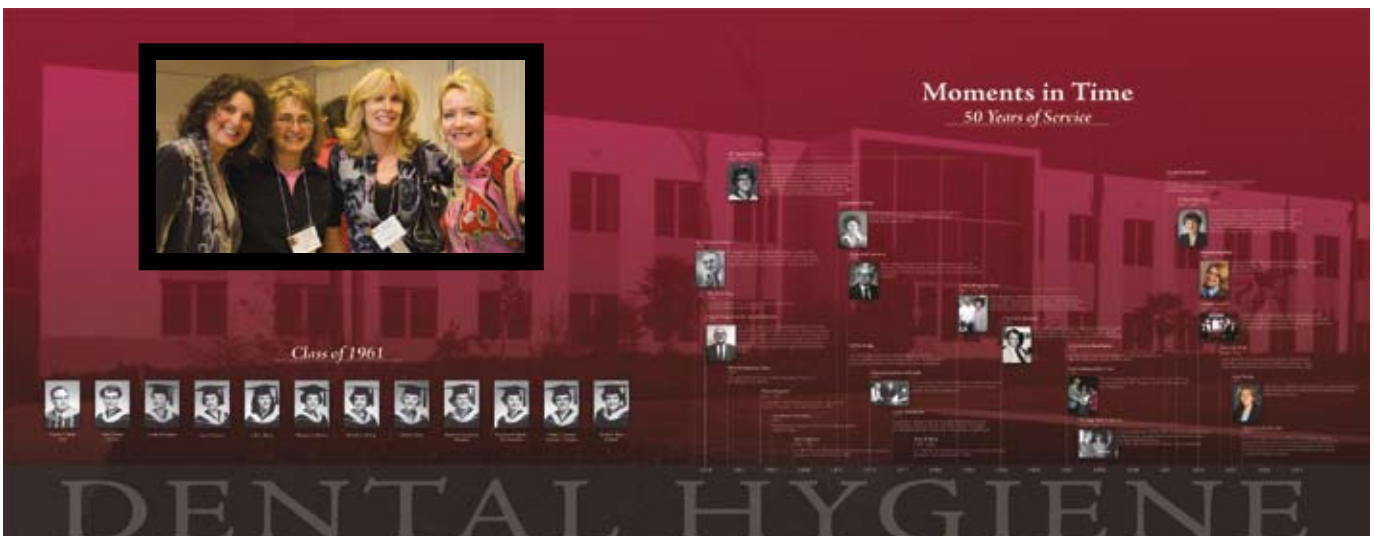
Examples of tangible products of Educational Support Services developed in 2008-2009



LLUSD admissions booklet



Patient education booklet



A five-foot by eleven-foot display, memorializing the Department of Dental Hygiene's first fifty years, was installed on a Prince Hall first-floor wall in 2009, around the corner from the Dental Hygiene administrative offices.

Computer Services

Dental Computer Services

Upgrades in the clinical computer systems necessitated improvements in the server and network services during 2007 and 2008, as well as the addition of a director of Dental Computer Services. Services now include wireless access in common areas of the School, an electronic patient record available securely from off campus, and computers at each station in the high-tech Nobel Biocare Laboratory. Electronic testing is possible through carefully configured networks, and students can now view faculty demonstrations on computer monitors in the laboratory.

Incoming students are required to have access to computers with certain specifications, rather than a specific laptop. This change was made possible because of the installation of computers in the Nobel Biocare Lab, Urgent Care, Screening, International Dentist Program clinic, dental hygiene clinic and all specialty clinics. Computers will be installed in the main clinic during the summer of 2010, thus relieving students from the need to plug in their personal laptop when treating a patient.

Dental Computer Services staff support nearly 1,400 electronic devices in Prince Hall, as well as at the Center for Dental Research, the Faculty Dental Office, and the Center for Dentistry and Orthodontics. The need for additional



LLUSD server room

space to configure and maintain these devices required the conversion of the first floor kitchen into office and storage facilities.

Plans to utilize technology for patient consultations are solidifying, as the School of Dentistry service area expands to remote areas such as Mead Valley, Mecca, and the mobile clinic.



The Nobel Biocare Laboratory was remodeled in 2008 to accommodate 107 dental simulator workstations.

Alumni Association

Alumni Association

The 2008 Alumni Student Convention honored the Class of 1958 with the help of magician Pete McLeod.

The 2009 Convention honored the class of 1959, where a great showing was due in no small part to classmate Bill Heisler. That year also saw the 50-year celebration for the dental hygiene program.

The annual dental hygiene luncheon was stepped up to an even classier event with four members of the original dental hygiene class attending, and founding chair, Violet Bates, interviewed on the telephone for everyone to hear.

The Alumni Student Loan Fund, originated in 1987, is currently receiving over \$50,000 a month from interest and principle being repaid from the nearly \$4,000,000 in current loans to alumni. An astonishing \$11,000,000 has been loaned out in the last 23 years, yet the default rate remains a mere 1.85%. Once again, the alumni have exhibited integrity and represent their alma mater well.

The Alumni Association continues to sponsor Bibles and white coats for presentation during the annual student dedication program each February, as well as the graduation reception and the biennial Alumni Directory.

The Alumni Association Student of the Year in 2008 was Karl Northrup, who demonstrated a willingness to assist the School and the Alumni Association; in 2009, Brian Evans was chosen, in part because of his efforts in rallying his classmates toward philanthropic efforts while still in school.

The Dental Hygiene Alumnus of the Year for 2008 was the entire class of 1963.



Magician Pete McLeod entertained alumni at the 2008 Homecoming Banquet.



Thomas C. Rogers, SD'83, MPH'96

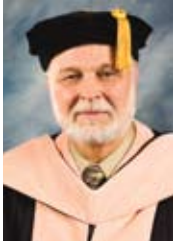


Margaret Ann Guptil, DH'69



Clelan Ehrler, SD'68, MS'71

BIENNIAL REPORT 2008 & 2009



Richard H. Hart, MD, DrPH
President

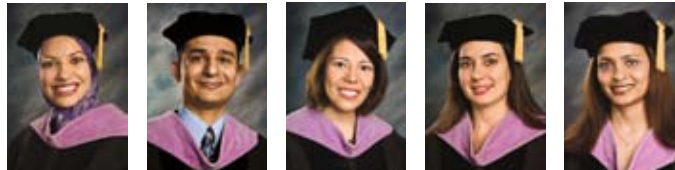


LOMA LINDA UNIVERSITY
School of Dentistry



Charles J. Goodacre, DDS, MSD
Dean

Loma Linda University School of Dentistry International Dentistry Program Class of 2009



Noha Abdel-Salam Rabi Altatari Juliana Bermúdez Alethea Coelho Rupal Javia



Yung Kim Mei Lu Adrian Mobilia Dilan Munaweera Johnny Shammo Yaroslav Vasyutyak

Doctor of Dentistry Program Class of 2008



Jared Lee President Neal Johnson President Matt Cilderman Vice President Kari McKenzie Secretary James Kim Chaplain Jennifer Clark Social Vice President Gerard Sabaté Social Vice President Karl Northrup Jr. Financial Vice President Janelle Yang Horsley Historian

CLASS OFFICERS



Joseph Alwan Benjamin An Hyun Jin Bae Hyun Sook Bang Melissa Bassham Marie Baumgartner Sheldon Blood Billy Chai Joey Chen Kristi A. Chiang

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Bren Chun



Christina Chung



Matthew Chung



David Clark



Natalie Cochran



Peter Bao Do



Tri Duong



W Ryan Easterbrook



Tara Ericson



Jeffrey Firestone



Bryan Fletcher



Kavin Gustafson



Christofer Hanson



Carmel Hopkins



Jessica Horricks



Philip Horsley



Jeffrey Hwang



Saehoon Jang



Julia Jeong



Kayce Jesse



Julia Jeong



Kayce Jesse



Tera Johnson



Pauline Karunakaran



Soyoung Kim



Steve S Kim



Paul Y Kwon



Nathan J Latimer



Jaime Lee



Lawrence Lee



Thomas Lee



Brian C Lin



Brian W Mananquil



Joel Mickelwait



Kevin Miller



Audrey Mojica



Tate Montgomery



Tamra Newbold



Tan Ngheim



Jason Niemeyer



Stephen N Nozaki



Andrew Ordelleide



Lora C Ota



Joey Park



Scott Parker



Ernest Ponraj



Kenneth Price



Samuel Pyo



Troy Racki



Patricia Ramos



Jonathan Reth



Jeffrey Rho



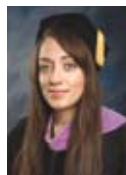
Jorge Rojas



Ryan Rudd



Shayna Sanchez



Angella Santos-Figueroa



Stephen Seheult



David M. Self



Daniel Siriphongs



Christine A. Son



Elisa H. Song



Helen Song



Priscilla Tall



Andrey Ustinenkov



Jonathan Visscher



Matthew R. Wall



Michael V. Wall



Michelle Hoag-Wall



John M. Wesley



John T. Will



Gregory Williams



James Willis



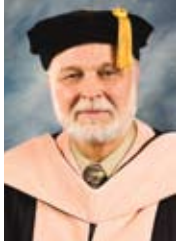
Ryan N. Wilson



Paul H. S. Yoo



Tristan Ziegenhagel



Richard H. Hart, MD, DrPH
President



LOMA LINDA UNIVERSITY
School of Dentistry



Charles J. Goodacre, DDS, MSD
Dean

Loma Linda University School of Dentistry International Dentistry Program Class of 2009



Dragana Angelova



Toral Ardeshta



Keyvan Arghavanifard



Hikshu Desai



Alwyn Devaraj



Rowena Gbenoba



Georgina Jamison



Racha Khireiwish



Joo-Yong Lee



Laura McCormack



Luminita Narita



Lourdes Reysantos



Sejal Sheth



Mayada Shmara



Yiping Song



Michael Tafti



Madhuri Takale



Silvia Vargas



Prashant Verma



Eun Youn

Doctor of Dentistry Program Class of 2009



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President



Dennis A. Simental
Vice President



Sonny Porter
Secretary



Brian E. Evans
Treasurer



Tristan Hamilton
Social Vice
President



Sue Jean Park
Social Vice
President



Jessica Carter Smith
Chaplain



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Vice President
of Public Relations



R. Louis Yap
Historian



Todd E. Wesslen
Vice President
of Technology

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Lindsey Anderson



Carl Appleton
Clinic Representative



David J. Bainer



Kimberly
Bensonhaver



Kim Bentjen



Mark Brown



Joshua Cartter



Julie Catalano
Bahnmiller
ADEA Representative



Jonathan R. Channer



Joshua Chenowith

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Jimmy Cheung, Jr
ASDA Representative



Jay Chilson



Kyung Duk Choi



Yoonhyeok Choi



Yujin Choi



Roy Chun



Vanessa Chun



Eric D. Cornelius
Clinic Representative



Beatrice Criveanu



Rachel M. Deininger



Vincent P. Drouin



Andrew Dyer



Lincoln P. Edwards



Kimberly N. Eek



Ben Emery



David Ericksen



Graig C. Erickson



Treavor D. Fisher



Joseph Flechas



Shaun G. Flynn



Sharon Foster



Jonathan W. Gantz



Devin M. Gerrard



Shiva Ghahremani



Benjamin E Hadfield
ASDA Leg. Liaison



Randal J. Henneberg



Dennis Iverson



Sun Chun Kim



Young K. Kim



Nolan W. Korando



Scott E. Krause
Community Service
Representative



Catharine M. Kwon



Angela S. Lee



Claire SJ Lee



David Lee



Diana Lee



Kenneth P. Lim



Michael D. Lopez, Jr
SIMS Representative



Jesse McClung
Sports Coordinator



Dane McClurg



Kai Morgan



Mervin Moya



Luiza Nersisyan



Diem-Trinh Nguyen



Daniel J. Ninan



David Norwood



Rhett K. Olsen



Young Chul Park



Parisa Pejman-Zadeh



Tung Pham



Allison J. Phang



Nathan Proud



Abtin Rahimian



Jennifer R. Rearick



Ivan D. Rees



Robert Paul Renck II



L. Scott Seaman



William J.B. Shearer



Eun Hye Grace Sheen



Scott C. Smith



Margaret Soh



Si-Yeun Sung



Samer Nasr Tabel



Bilyana Tesic



Preethi Trussell



Jeffrey C. Wight



Christopher J. Wood



Jasper Yai



Keu Sung Yun



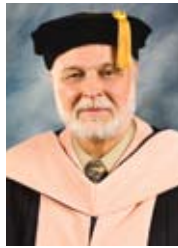
Daa Zora



LOMA LINDA UNIVERSITY

School of Dentistry

Loma Linda University School of Dentistry Hygiene Class of 2008



Richard H. Hart, MD, DrPH
Chancellor



Charles J. Goodacre, DDS, MSD
Dean



Joni Stephens, Eds, RDH
Chair



Tiffany Haack
President



Victoria Shelton
Vice President



Charis Wright
Vice President



Chelsea Doyle
Secretary



Kimberly Nelson
Treasurer



Sara Staker
Social Vice President



Heidi Salagan
Historian



Erin Abston
Historian

CLASS OFFICERS

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Adrienne Alexandru



Stephanie Altman



Crystal Arroyo



Deborah Balderrama



Lee-Anne Bautista



Rivann Chea



Breanne Cox



Kimberly Eddy



Mindy Goltiao



Janak Gordhan



Lindsay Hall



Melinda Hall



Laura Houghton



Heather Hutchinson



Jeehyun Hwang



Yohany Ingleton



Lisa Jones



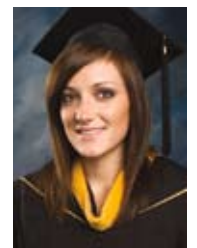
Kamron Kirk



Ashley Kraft



Mido Lee



Tara Lofgren



Ryan Madsen



Rachel Rasco



Robin Redinger



Michele Rees



Nicole Rezkalla



Kati Schamber



Megan Snider



Lindsey Thompson



Katie Webster



Jennifer Williams



Christine Zakhary

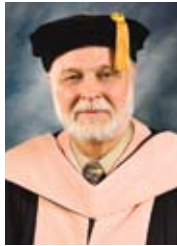


LOMA LINDA UNIVERSITY

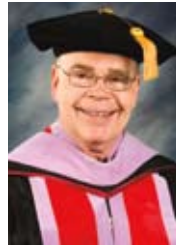
School of Dentistry

Loma Linda University School of Dentistry Hygiene Class of 2009

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Richard H. Hart, MD, DrPH
President



Charles J. Goodacre, DDS, MSD
Dean



Kristi Wilkins, MA, RDH
Chair



Jamie Patton
President



January M. Chay
Vice President



Justina Tran
Secretary



Tiffany Harris
Treasurer

C L A S S
O F F I C E R S



Shannon Chennault
Social Vice President



Lori Lujan
Social Vice President



Amy Russell
Chaplain



Melissa Beesley
Historian

DENTAL EDUCATIONAL SUPPORT SERVICES



Roy Ando



Cortney Bellinger



Jessica Black
Birthday Secretary



Kerri Booker



Kelli Boyd



Loredana Burciu



Rebecca Burke



Dana DeGuzman



Ashley Fujikawa



Landi Hansen



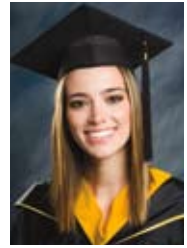
Jessica Hatch



Jayme Jesse



Rokhana Kouroshnia



Sherry Lister



Katelyn Malone



Chelsey Martin



Courtney McEowen



Lauren McEowen



Melissa McEwen



Merinne Mesku
Community Service Rep



Jaclyn Ortiz



Donna Park



Kathryn Penafiora



Tracy Robertson



Leslie Ross



Angela Seo



Olga Shakalova



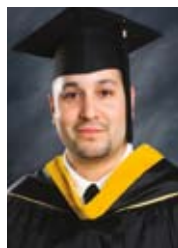
Juliana Spiridon
Sports Coordinator



Montra Suprono



Jasmine Swenson



Daniel Tapia



Shaelene Trees



Brie Victorsen
SADHA Rep

Advanced Education Program in Dental Anesthesiology, 2008

Larry D. Trapp, DDS, MS,
Program Director



John Leyman, DDS
Chair



Kourosh Dashty, DDS



Salman Raza Hussain, DMD



Rajeev Misra, DDS



Babak Razmazma, DDS

Advanced Education Program in Dental Anesthesiology, 2009



John Leyman, DDS
Acting Chair



Larry D. Trapp, DDS, MS
Program Director



Barry Krall, DDS
Associate Program
Director



Phillip Bleak, DDS



Cheri Dang, DMD



Steven DeLisle, DDS



Tyler Johnson, DDS



Kathryn Le, DDS



Amy Wong, DDS

Advanced Education Program in Endodontics, 2008

Mahmoud Torabinejad,
DMD, MSD, PhD
Program Director



Leif K. Bakland, DDS
Chair,
Ronald E. Buell Professor of
Endodontics



Tyler Frederic Baker, DDS



Robert P. Corr, DDS



Rylan Nels Gustafson, DDS

Advanced Education Program in Endodontics, 2009

Mahmoud Torabinejad,
DMD, MSD, PhD
Program Director



Robert Handysides, DDS
Chair



Shawn Anderson, DDS



Yuan-Lung Hung, DMD



Thomas Kim, DDS



Bonnie Retamozo, DDS

Advanced Education Program in Implant Dentistry, 2008

Jaime Lozada, DDS
Program Director



Douglass Roberts,
DDS, Chair



Yuan-Lung Hung, DMD



Francisco Leyva Aguilar, DDS



Wesam Salha, DDS

Advanced Education Program in Implant Dentistry, 2009

Jaime Lozada, DDS
Program Director



Douglass Roberts DDS
Chair



Mehrdad Fay, DDS



Ting-Jen Ji, DDS



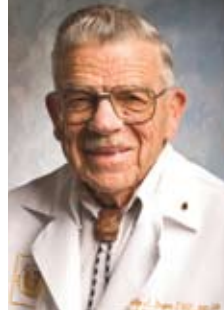
Taichiro Morimoto, DDS



John Won, DDS

Advanced Education Program in Oral and Maxillofacial Surgery, 2008

Alan S. Herford, DDS, MD,
Program Director and Chair
Philip Boyne – Peter Geistlich Professor
of Oral and Maxillofacial Surgery



Philip J. Boyne, DDS, MS, DSC
Emeritus Professor



Guriqbal Garry Gill, DMD



Jason Adam Straw, DDS

Advanced Education Program in Oral and Maxillofacial Surgery, 2009

Alan S. Herford, DDS, MD,
Program Director and Chair
Philip Boyne – Peter Geistlich Professor
of Oral and Maxillofacial Surgery



Adam Clark, DDS



Carlos Moretta, DDS

Advanced Education Program in Orthodontics and Dentofacial Orthopedics, 2008

V. Leroy Leggitt, DDS, MS, PhD
Program Director



Joseph M. Caruso, DDS, MS,
Associate Dean, Strategic Initiatives
and Faculty Practices and Chair



Michelle Franco Couto
DMD



Elena Stela Iacob
DDS



Jason Michael Loop
DDS



Joshua Johnson Schneider
DDS



Wade Aaron Williams
DDS



Anne Jiyoung Yoon
DDS

Advanced Education Program in Orthodontics and Dentofacial Orthopedics, 2009

V. Leroy Leggitt, DDS, MS, PhD
Program Director



Joseph M. Caruso, DDS, MS,
Associate Dean, Strategic Initiatives
and Faculty Practices and Chair



Christian Hoybjerg, DDS



David Lee, DDS



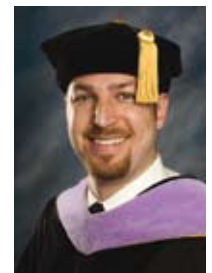
Melissa Lee, DDS



Jodi Parker, DDS



Michael Pollack, DDS



Tyler Pritchard, DDS

Advanced Education Program in Pediatric Dentistry, 2008



Frank R. Traficante, DDS
Program Director



Todd Milledge, DDS
Associate Program Director



Bonnie Nelson, DDS
Chair



Cameron Edward Fuller, DDS



Matthew Herbert Gustafsson, DDS



Robert Chia-Hsing Lee, DDS



Audrey T. Sheu, DDS

Advanced Education Program in Pediatric Dentistry, 2009



Bonnie Nelson, DDS
Chair



F. Robert Traficante, DDS
Program Director



Todd Milledge, DDS
Associate Program Director



Leslie Butler, DDS



Daniel Morgan, DDS



Jennifer Moseley, DDS



Stuart Segura, DDS

Advanced Education Program in Periodontics, 2008



Jeffery M. Henkin, DDS, MS, FICD
Program Director



Craig Ririe, DDS, MS
Interim Chair



Patrick Laird Huston, DDS



Mark Jeffrey Kunihiro, DDS



Israel Puterman, DMD

Advanced Education Program in Periodontics, 2009

Jeffery M. Henkin, DDS, MS, FICD
Program Director



Craig Ririe, DDS, MS
Interim Chair



Roger Anderson, DDS



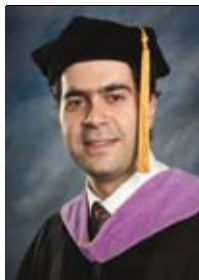
Chun-Xiao Sun, DMD

Advanced Education Program in Prosthodontics, 2008

Mathew T. Kattadiyil, DDS, MDS, MS,
FACP
Interim Program Director



Douglass Roberts, DDS,
Chair



Bashar S. Ayyoub, DDS



Setrag Dermendjian, BDS



Vahik Meserkhani, DDS



Rishi Dinesh Patel, BDS

Advanced Education Program in Prosthodontics, 2009



Douglass Roberts, DDS
Chair



Mathew Kattadiyil, DDS, MDS, MS
Program Director



Bader Ahmad, DDS



Ronald Forde, DDS



Souren Rostomian, DDS



Simon Samo, DDS



John Won, DDS



James Ywom, DDS

Implant Study Club 2008

March 6	Literature Review Methodology	Jaime Lozada, DDS, MDS
March 7	Techniques and Methods for Diagnostic Data Gathering	Mathew Kattadiyil, DDS, MS
April 17	Infection Control	Ms. Alisa Wilson
	Medical Evaluation Guidelines for the Dental Implant Patient	Bindoo Punjabi, DDS
	Applied Surgical Anatomy	Jaime Lozada, DDS, MDS
April 18	Biomechanics of Implant Overdentures	Mathew Kattadiyil, DDS, MS
	Applied Anatomy	Jaime Lozada, DDS, MDS
May 15	Advanced Surgical Guidelines in Implant Dentistry, Surgical	Matteo Chiapasco, MD
	Template Design and Fabrication Workshop	Jaime Lozada, DDS, MDS
May 16	Enhancing the Way You See Patients	Mathew Kattadiyil, DDS, MS
June 12	Implant Placement Workshop; Indexing to Surgical	Jaime Lozada, DDS, MDS
	Templates, Impression Making Techniques in Implant	Mathew Kattadiyil, DDS, MS
	Prosthodontics; Implant Abutments	
June 13	Nobel Biocare Hands-on Workshop	Jaime Lozada, DDS, MDS
		Mathew Kattadiyil, DDS, MS
July 10	Utilization of Mini-Dental Implants: Surgery and Prosthetics;	Mark A. Kochman, DDS
	Implant Design	Jaime Lozada, DDS, MDS
		Yongchang Choi, DDS
July 11	RCT versus Implant; Complications in Implant	Mathew Kattadiyil, DDS, MS
	Prosthodontics; Zimmer Hands-on Workshop	
August 14	Risk Management, Malpractice and Legal Considerations	Frank Recker, DDS, JD
	Related to Implant Dentistry	Jaime Lozada, DDS
	The Use of Immediate Function Implants	William Locante, DDS
August 15	Principles of Occlusion; Occlusal Consideration in Implant	Mathew Kattadiyil, DDS, MS
	Dentistry	
	Demonstration on Implant Prosthodontics	Jaime Lozada, DDS, MDS
September 11	Treatment Planning Implant Cases in the Real World;	Edward Mills, DDS
	Aesthetic Treatment Options for Completely Edentulous	Alejandro Kleinman, DDS
	Patients Using CAD/CAM Technology	
September 12	Interaction with the Prosthodontic Care Provider	Mathew Kattadiyil, DDS, MS
	Hands-on course, Surgical Phase with Mini Dental Implant;	
	Prosthodontic Phase Dental Implants	
	Prognosis Positive: Increasing Restorative Success With	Brian Novy, DDS
	Saliva Diagnostics	
October 9	Principles in Peri-implant Histopathology and Soft Tissue	Istvan Urban, DDS
	Surgery	
	Surgical Workshop in Bone Regeneration; Computer Guided	Jaime Lozada, DDS, MDS
	Surgical Implant Dentistry	Mathew Kattadiyil, DDS, MS
November 13	Surgical Complications and Management in Implant	Norman Cranin, DDS
	Dentistry	Jaime Lozada, DDS, MDS
November 14	Prosthodontic Considerations for Fixed Complete Dentures	Mathew Kattadiyil, DDS, MS
	Clinical Complications Associated with Endosseous Root	Charles Goodacre, DDS, MSD
	Form Implants	
December 12	Immediate Function; New Concepts and Techniques;	William Locante, DDS
	Growth Factors in Implant Dentistry	Jaime Lozada, DDS, MDS
	Implant Prosthodontic Review	Mathew Kattadiyil, DDS, MS
	Distance Learning Online Sessions	Mathew Kattadiyil, DDS, MS

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Advanced Implant Study Club 2008

May 14	Advanced Surgical Modalities Esthetic & Functional Planning Prosthodontics Suturing Workshop & Peizzo Tome Workshop	Jaime Lozada, DDS, MDS Tony Daher, DDS, MSED Jaime Lozada, DDS, MDS
June 11	Maxillary Sinus Grafting Protocols	Tony Daher, DDS, MSED Jaime Lozada, DDS, MDS
July 9	Complex Patient Presentation from First Visit to Final	Vahik P. Meserkhani, DDS
August 13	Restoration Implant Prosthodontic Procedures	Tony Daher, DDS, MSED
September 10	Surgical and Implant Prosthodontic Demonstration	Jaime Lozada, DDS, MDS
	Advanced Implant Prosthodontic Protocols	Tony Daher, DDS, MSED
	Guided Bone Regeneration Techniques	Jaime Lozada, DDS, MDS
October 8	Principles in Peri-implant Histopathology and Soft Tissue Surgery	Istvan Urban, DDS
November 12	New Implant Concepts	Silvio Emanuelli, DDS
	Maximizing Your Implant Dentistry Specialty Through New Paradigms in Prosthodontic Treatment Planning	John Willardsen, DDS, MS Tony Daher, DDS, MSED
	Surgical Complications and Management	Jaime Lozada, DDS, MDS
December 10	Prosthodontic Complication and Management Learn From My Mistakes	Tony Daher, DDS, MSED Jaime Lozada, DDS, MDS

Alumni Student Convention 2008

February 10	Anterior Implant Esthetics: Treatment Planning, Restorative and Surgical Concepts Dental Anesthesia Symposium	Joseph Y. Kan, DDS, MS Jaime Lozada, DDS Jesus Berdeja, MD; Barry Krall, DDS; John Leyman, DDS; Larry Trapp, DDS, MS
February 7	What's New in Dental Implant Research Periodontal Research: Present and Future Recent Advances in Tooth Bleaching Basic Science and Applied Research of Growth Factors in Bone Healing Applications of Growth Factors in Clinical Problem Areas New Developments in Dental Materials Implant Dentistry: Hard and Soft Tissue Interactions Criteria For Success and Failure of Dental Implants Oral Disease: The Connection Post Extraction Ridge Preservation Caries Management in a Private Dental Practice Implants in a Rural Dental Practice Posts, Cores, and Adhesives: An Update Geysers and Trees: What Yellowstone and Dentin Bonding Agents Have in Common Occlusion Treatment Western Regional Board Preparation Course	Jaime Lozada, DDS Nikola Angelov, DDS, PhD Sean S. Lee, DDS Philip Boyne, DMD Alan Herford, DDS, MD Huan Lu, DDS, PhD Jeffrey Henkin, DDS, MS Jeffrey Henkin, DDS, MS Sebastiano Andreana, DDS, MSc Sebastiano Andreana, DDS, MSc Kim Kutsch, DMD Guy Giacomuzzi, DDS Nadim Baba, DDS Brian Novy, DDS Parnell Taylor, DDS Frederick Berry, DDS; Mark Estey, DDS; Robert Handysides, DDS; Oliver Hoffmann, DDS, MS; Douglass Roberts, DDS, MS; Stella Suba, RDA, CDA

	Avoid the Heartaches Associated With Your Life as a Dentist CPR Digital Radiography	Brian Novy, DDS Mr. Ed Ettinghausen Jean Honny, MS, RDH; Steve Morrow, DDS, MS; Paul L. Richardson, DDS, MEd
	Techniques in Instrument Sharpening	Darlene Armstrong, MA, RDHAP; Shirley Lee, MS, RDH; Shelly Withers, MS, RDH
	Minimizing Dental Muscular Injuries	Janak Gordhan; Ashley Kraft; Ryan Madsen
February 8	Wealth-building Strategies for Future Financial Security Mars and Venus in the Workplace Diagnostic Casts for Occlusal Analysis Restoration of Endodontically Treated Teeth Diagnosis and Treatment Planning In Implant Dentistry Esthetics by Design Esthetics Extrusion of Compromised Teeth Introduction to LUMINEERS Restoring Endodontically Treated Teeth Strategies for Success in Endodontics Endodontic Solutions for the "Outpost Dentist" Oral Pathology for Dental Professionals Unraveling the Mystery of Street Drug Abuse and the Effects on You and Your Dental Practice!	Doug Carlsen, DDS John Gray, PhD Myron Winer, DDS Setrag Dermenjian, DDS Paul Meserkhani, DDS Nick Davis, DDS Carlos Chavez, DDS Frederick Berry, DDS Adam T. Clark, DDS Gerardo Toledo, DDS Roderick Tataryn, DDS, MS John Munce, DDS Olga A. Cl. Ibsen, RDH, MS Harold L. Crossley, DDS, PhD
February 10	Anterior Implant Esthetics: Treatment Planning, Restorative and Surgical Concepts Dental Anesthesia Symposium	Joseph Y. Kan, DDS, MS Jaime Lozada, DDS Jesus Berdeja, MD; Barry Krall, DDS; John Leyman, DDS; Larry Trapp, DDS, MS
Implant Study Club 2009		
March 26	Dental Photography Literature Review Methodology; Diagnostic Imaging in Implant Dentistry	Juan Mesquida, DDS Jaime Lozada, DDS
March 27	Prosthodontic Diagnosis Index ACP Classifications; Implant Diagnosis and Treatment Planning	Mathew Kattadiyil, BDS, MSD, MS; Jaime Lozada, DDS
April 9	Applied Pharmacology: Pain and Anxiety Control; Pharmacokinetics and Clinical Application; Medical Evaluation Guidelines for the Dental Implant Patient; Applied Surgical Anatomy	James Rutkowski, DMD
April 10	Diagnostic Data Collection; Case Presentation and Diagnosis and Treatment Workshop	Myron Winer, DDS; Mathew Kattadiyil, BDS, MSD, MS
May 7	Implant Dentistry in a General Dentistry Practice	Emile Martin, DDS; Jaime Lozada, DDS
May 8	Bone Physiology and Dental Implants Biomechanics in Implant Dentistry	Shankar Iyer, DDS
June 4	Implant Placement Workshop; Implant Diagnosis and Treatment Planning Workshop	Jaime Lozada, DDS; Mathew Kattadiyil, BDS, MSD, MS
June 5	Implant Placement Workshop; Implant Diagnosis and Treatment Planning Workshop	Jaime Lozada, DDS; Mathew Kattadiyil, BDS, MSD, MS

CONTINUING DENTAL EDUCATION

July 9	Mini Implants Dental Implant Systems	Mark A. Kochman, DDS Aladdin Al-Ardah, DDS
July 10	Hands-on-Placement and Utilization of Mini Dental Implant in an Over-Denture Situation; Hands-on-Computer Simulation Utilizing Nobel Guide Software	Ron Baggott, CDT; Pat Latunski
August 6	New Technologies for Complete Edentulous with O.I. Implants Hands-on Workshop: Treatment of the Maxillary Sinus	Alejandro Kleinman, DDS Jaime Lozada, DDS; Pascal Valentini, DDS
August 7	Anterior Implant Esthetics Risk Management, Malpractice and Legal Considerations Related to Implant Dentistry	Joseph Kan, DDS, MS Frank Recker, DDS, JD
September 24	Hands-on Workshops: Surgical Nobel Replace & Nobel Active; Restorative Sequence Screw-Retained Prosthesis	Jaime Lozada, DDS; Mathew Kattadiyil, BDS., MSD, MS
September 25	Basic Principles in Bone Grafting Surgery Management of Complications in Bone Grafting Surgery	Matteo Chiapasco, MD Matteo Chiapasco, MD
October 8	Mandibular Movements and Principles of Occlusion; Fabrication of Cement Retained MCC; and Subperiosteal Implants	Mathew Kattadiyil, BDS., MSD, MS; Jaime Lozada, DDS
October 9	Hands-on Workshop: Prosthodontics Implant Diagnosis and Treatment Planning	Mathew Kattadiyil, BDS., MSD, MS; Jaime Lozada, DDS
November 5	Surgical Complications and Management in Implant Dentistry; and Predictable Vertical Bone Augmentation	Istvan Urban, DMD
November 6	Implant Design as it Relates to Biologic Width Sinus Grafting in Implant Dentistry	YongChang Choi, DDS, MS, PhD Jaime Lozada, DDS
December 11	Application of Implant Dentistry in Maxillofacial Prosthodontics Clinical Complications Associated with Endosseous Root Form Implants Grafting in Implant Dentistry	Amir Khatami, DDS Charles Goodacre, DDS, MSD Joel Rosenlicht, DMD
Lectures 2009		
January 11	Medical Emergencies in the Dental Practice	Steven J. Filler, DDS, MS, MA
January 18	Systemic and Periodontal Diseases	Sebastiano Andreana, DDS, MS
February 1	Second Annual Periodontics Symposium	Craig M. Ririe, DDS, MS; Nikola Angelov, DDS, MS, PhD; Les Arnett, DDS, MS; Paul Fuentes, DDS; Mohamed Hassan, DDS; Oliver Hoffmann, DDS; Adrian Mobilia, DDS; Stephen Silston, DDS; Albert Weissman, DDS, MS Tony Daher, DDS, MEd; Nadim Z. Baba, DMD, MS
March 15	Aesthetic & Functional Enhancement of Removable Partial Denture Outcome Through the Use of Attachments & Implants	Thomas Abrahamsen, DDS, MS
March 29	Abfractions—Fact or F(r)iction	W. Eugene Rathbun, DDS, PhD;
April 5	Infection Control and California Dental Practice Act	Bette Robin, DDS, JD
April 26	Minimally Invasive Dentistry	Ron Kaminer, DDS; James Jesse, DDS, MS
May 31	The Secrets to Becoming a Successful Dental Assistant	Victoria L. Wallace, CDA, RDA

CONTINUING DENTAL EDUCATION

June 7	The Hottest Topics In Dentistry Today	Louis Malcmacher, DDS, MAGD
July 6-18	Oral Pathology, Diagnosis and Treatment	Lane C. Thomsen, DDS
September 20	Best Practices in Clinical Dentistry—The Judson Klooster Symposium	Leif K. Bakland, DDS; Joseph Caruso, DDS, MS, MPH; Charles J. Goodacre, DDS, MSD; Barry Krall, DDS; Mahmoud Torabinejad, DMD, MSD, PhD
October 10	Dispelling the “CSI Effect” Myth: An Overview of Contemporary Forensic Dentistry	Anthony “Rick” Cardoza, DDS; James D. Wood, DDS
October 25	Dentistry 101 on an Everyday Basis	Pierre Boudrias, DMD, MSD
November 8	If You Can’t Beat ‘Em, Enjoy Them—Behavior Management From a New Perspective	Greg Psaltis, DDS
November 15	Infection Control and California Dental Practice Act	W. Eugene Rathbun, DDS, PhD; Bette Robin, DDS, JD
December 6	A Potpourri of Clinical Dental Pharmacology	Harold L. Crossley, DDS, PhD
Alumni Student Convention 2009		
February 19	Opportunities and Challenges for Providing Care to Underserved Communities: Perspectives on Fulfilling a Vision of Service	Magda A. de la Torre, MPH, BS, RDH
February 19	Predictable Techniques for Maxillary Sinus Grafting	Jaime Lozada, DDS
	CAD/CAM Implant Dentistry	Rishi Patel, BDS
	When to Extract and Place an Implant: The Endodontic Perspective	Lars Bjorn Jonsson, DDS
	Options for Implant Restorations for the Completely Edentulous Patient	Alejandro Kleinman, DDS
	Technique/Concepts for Crestal Bond Maintenance on Dental Implants	Young Chang Choi, DDS, MS, PhD
	Periodontal Techniques for Soft Tissue Improvement Around Dental Implants	Hasan Dbouk, DDS
	Techniques for Bone Preservation and Ridge Augmentation	Aladdin Al-Ardah, DDS
	Periodontal Regeneration? A Gold for Preservation of Teeth	Yoon Jeong Kim, DDS
	Everything You Wanted to Know About Sutures & Suturing, but Were Afraid to Ask	Albert Weissman, DDS
	An Overview of Correction of Mucogingival Defects	Albert Weissman, DDS
	Clinical Management of Dental Hypersensitivity	Adrian Mabilia, DDS
	Sleep Apnea	Nadim Baba, DDS; Joseph Caruso, DDS, MS, MPH; Ralph Downey, PhD; Dale Stringer, DDS; Helen Xiao-ou Xu, MD
	Occlusion	Parnell Taylor, DDS
	Posts, Cores, and Adhesives	Nadim Baba, DDS
	Western Regional Board Preparation Course	Frederick Berry, DDS; Mark Estey, DDS; Robert Handysides, DDS; Oliver Hoffmann, DDS; Douglass Roberts, DDS; Stella Suba, RDA, CDA
	Preparation for In-office General Anesthesia	Peter Jimenez, DDS
	Antibiotic Update	F. Robert Traficante, DDS

February 20	<p>PNAM (persurgical nasoalveolar molding) Appliance for the Cleft Infant Preparation for Medical Emergencies in the Dental Office Innovation in Clinical Practice New Age Patient Care: Dietary Supplements and Sealant Update (Hands-on) Occlusal Analysis: Your Right to Know! Prosthetic Treatment of Mandibular Discontinuity Defects With Endosseous Implants Applications of Crown Lengthening in Restorative Dentistry The Tools of Esthetic Communication Central Giant Cell: A Case Report A Review of Flaps for Dental Alveolar Surgery and Management of Complications Sinus Bone Augmentation, A Review of the Common Techniques Facial Flaps in Reconstruction What if it Were Your Kid? Vital Pulp Therapy on the Immature Apex Endodontic Problem Solving The New Endodontic Instruments Evaluated New & Review on Cosmetic Dentistry, From A(cid etch) to Z(oom whitening) Restorative Techniques Using Surgical Microscopes for Veneers & Gold and CBCT for Implant Site Location and Placement Intentional Living: A Journey of Personal and Professional Balance and Integration Allergies in the Dental Practice</p>	<p>Jung-Wei Chen, DDS, MS, PhD F. Robert Traficante, DDS Michelle Hurlbutt, BS, RDH Michelle Hurlbutt, BS, RDH Darlene Armstrong, MA, RDHAP Myron Winer, DDS Amir Khatami, DDS Souren Rostomanian, DDA Richard Young, DDS Adam T. Clark, DDS Carlos Moretta, DDS Jeff A. Elo, DDS, MS Jeffrey S. Dean, DDS, MD Rolf Wuerch, DDS Robert Handysides, DDS Robert Corr, DDS Michael Meharry, DDS, MS</p>
February 22	<p>Simplifying Restorative & Aesthetic Procedures in Daily Practice 29th Annual Anesthesia Symposium</p>	<p>Ebenezer Johnson, DDS; Mac Ojano, DDS Curt Hamann, MD, and Beth Hamann, DDS Curt Hamann, MD Marvin A Fier, DDS Barry Krall, DDS; John Leyman, DDS; Kimberly N. Otsuka, MD; Larry Trapp, DDS, MS</p>



2009 Maxicourse participants



Ronald Secor, MBA
Associate Dean, Financial Administration

Financial Administration

Because of the operation costs of dental clinics, according to the American Dental Association, dental education programs are the most expensive component of any private healthcare teaching institution.

With an ever-increasing faculty and student population, patient load, and staff, the budget of Loma Linda University's School of Dentistry is the largest of any LLU school.

Ron Secor, MBA, associate dean, financial administration, oversees an operation that in 2009 served more than 123,846 patient visits.

Supervised by premier faculty, the clinic programs are a win-win situation for patients and students. Procedures

in the dental clinic benefit patients, where charges fall as much as 40-60% below customary professional rates.

The recent fiscal year ending in June 2009 produce the following data:

Patients received dental care at these venues:

- 14,494 patients in the undergraduate clinic
- 9,137 patients in the graduate specialty clinics
- 2,687 patients in the international dentist program
- 2,125 patients in the faculty dental practice

623 students provided dental care:

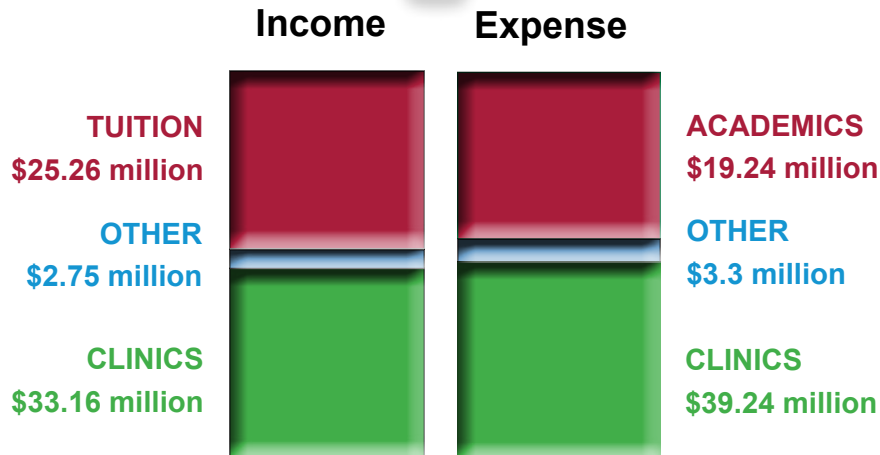
- 465 students in the undergraduate clinic
- 111 students in graduate specialty clinics
- 47 students in the international dentist program.

Faculty and staff:

- 229 full-time faculty
- 204 part-time faculty
- 358 staff

2008-2009 financial summary

Income budget	
Clinics	\$33,160,407
Tuition + fees	\$25,260,900
Other	\$ 2,751,387
Total net revenue	\$61,172,694
Expense budget	
Clinics	\$39,243,276
Academics	\$19,235,381
Other	\$ 3,304,072
Total expenses	\$61,782,729





W. Patrick Naylor, DDS, MPH, MS
Associate Dean, Advanced Education

Office of Advanced Dental Education

Academic achievements

- Dr. Jeffrey Henkin spearheaded the development of a new course in moderate sedation techniques open to students in all programs, entitled PERI 624 Moderate Sedation.
- The OADE created a research course entitled Scholarly Activity that was adopted by six advanced education programs to ensure fulfillment of the research requirement.
- The second edition of Dr. Naylor's textbook, *Introduction to Metal-Ceramic Technology*, was released by the Quintessence Publishing Co. in January 2009.

2008 milestones

- Two self-study reports were created for the two non-accredited programs: Dental Anesthesiology and Implant Dentistry. Each was submitted for an independent assessment to two outside evaluators who simulated a CODA site visit.
- Jung-Wei (Anna) Chen, DDS, MS, PhD, joined Pediatric Dentistry as a full-time faculty member.
- Advanced Education Programs began creating and distributing program newsletters that typically begin with a greeting from the directors, and serve as a way to inform alumni about program developments. Ms. Rachel Terwillegar and the Office of Development have assisted in preparation of the newsletters.
- Individual graduate portrait panels were created for each Advanced Education Program to give to graduating students/residents.

2009 milestones

- Dr. Jung-Wei (Anna) Chen was appointed director of the Advanced Dental Education Program in Pediatric Dentistry in June 2009.
- The Office of Advanced Education relocated to the third-floor space previously occupied by the Department of Orthodontics and Dentofacial Orthopedics.
- Our first Master of Science in Dentistry (MSD) degrees were awarded—two in Periodontics and three in Endodontics.
- Three dual-major programs were officially approved:
 - Periodontics–Implant Dentistry
 - Prosthodontics–Implant Dentistry
 - Prosthodontics–Periodontics.
- Two MSD manuscripts were accepted for publication, one in endodontics and one in pediatric dentistry.
- Five programs prepared for and completed a successful Commission on Dental Accreditation (CODA) site visit: endodontics, oral and maxillofacial surgery, orthodontics, periodontics, and prosthodontics.
- The Orthodontics and Dentofacial Orthopedics Program moved to 159 Hospitality Lane in San Bernardino.

Advanced education class profiles

Entering class of 2008 (graduating 2010 & 2011)

Total applicants	320
Total accepted	32
Females	12
Males	20
Average age	30
White, non-Hispanic	20
Asian	8
African-American	1
Hispanic	2
Other	1

Average national boards

Part I score	88
Part II score	82
Average GPA	3.36

Entering class of 2009 (graduating 2011 & 2012)

Total applicants	378
Total accepted	35
Females	14
Males	21
Average age	28
White, non-Hispanic	19
Asian/Pacific Islander	7
African-American	2
Hispanic	4
Other	3

Average national boards

Part I score	87
Part II score	82
Average GPA	3.53

Loma Linda University School of Dentistry advanced education students matriculate from a diverse world population, as the following list demonstrates.

Dental school attended (entering 2008):

Boston University School of Dental Medicine	1
Creighton University School of Dentistry	1
Indiana University School of Dentistry	1
Kaohsiung Medical University School of Dentistry	1
Loma Linda University School of Dentistry	13
Osaka Dental University	1
Shahid Beheshti University of Medical Science School of Dentistry	1
Tufts University School of Dental Medicine	1
University of California Los Angeles School of Dentistry	2
Universidad Alfonso X El Sabio, Madrid, School of Dentistry	1
University of California San Francisco School of Dentistry	1
Damascus University Technological Institute of Dentistry	1
University of Medicine and Dentistry, New Jersey	1
University of Nebraska Medical Center College of Dentistry	1
University of the Pacific-Arthur A. Dugoni School of Dentistry	2
University of Southern California School of Dentistry	3

Dental school attended (entering 2009):

Ajman University of Science and Technology	1
Case Western Reserve University School of Dentistry	1
Health Sciences Center Kuwait Faculty of Dentistry	1
Loma Linda University School of Dentistry	17
Nova Southeastern University College of Dental Medicine	1
Temple University School of Dentistry	1
Tufts University School of Dental Medicine	1
Universitatea De Medicina Timisoara	1
University of California Los Angeles School of Dentistry	3
University of California San Francisco School of Dentistry	1
University of Colorado Denver School of Dental Medicine	1
University of Nevada Las Vegas School of Dental Medicine	2
University of Washington School of Dentistry	1
University of Southern California School of Dentistry	2
Yerevan Sate Medical University	1



Graham Stacey, PhD, MA, MS
Associate Dean, Student Affairs

Office of Student Affairs

Goals

To facilitate each student's educational and training experience at the School of Dentistry, the office of dental affairs pursues activities related to these goals:

- 'Getting to know' and appreciating the unique qualities of each student. This includes understanding each student's personality, background, educational experiences, family of origin, faith tradition, and diversity issues.
- Communicating that understanding with dignity and respect.
- Connecting each student with the personal and material resources to enhance his or her education and training experiences.
- Supporting each student to achieve his or her highest potential.
- Cooperating with administration, faculty and staff to facilitate each student's personal, professional, academic, and clinical development.
- Cooperating with administration, faculty and staff to remediate a student's personal, professional, academic, and clinical development.
- Monitoring, measuring and evaluating student experiences

Administrative transition

William Hooker, Ph.D., on the staff of Loma Linda University since 1969, officially retired as associate dean for student affairs in the School of Dentistry on July 30, 2009. Notable during his deanship for a commitment to

a focus on wholeness for students, Dr. Hooker promoted students' academic and personal development goals. His strong emphasis on relationship building and support of diversity resulted in enrichment of the student and community environment.

Assuming the student affairs associate deanship in June 2009, D. Graham Stacey, PhD., most recently on the faculty at Avondale College, New South Wales, Australia, came with an academic background in religion, ethics studies, and clinical psychology. A licensed psychologist in Australia and an ordained pastor of the Seventh-day Adventist Church, Dr. Stacey is teaching as well as overseeing the student affairs for LLUSD.

Administration of financial assistance

The office for student affairs serves as a liaison between students and other campus services: financial aid, student finance, risk management, student health center, transportation and parking.

Under the guidance of these offices, the Student Financial Assistance Committee dispensed funding for scholarships and loans, as well as payment deferrals, allocated during 2008-2009 and totaling more than \$550,000 to students as indicated here:

- Disadvantage Scholarship 2008-2009: \$9,248 to 34 students
- Dental Alumni Loan, spring 2009: \$452,306 to 31 students
- Howard Kim Loan 2008-2009: \$33,787 to four students
- Selma Andrews Scholarship 2008-2009: \$46,172 to nine students
- ADA Foundation Second Year Scholarship: 2008-2009: \$10,000 to four students
- Diversity Loan 2008-2009: \$8,000 to one student

Senior survey 2009

Every year the graduating D4 class provides feedback via a survey of their subjective assessment of their preparation for dentistry.

The students responded to questions addressing the Commission on Dental Accreditation Standards. The areas assessed whether the students felt prepared to enter dentistry and had achieved an adequate level of competence in the following areas:

	Agree or Strongly Agree	Disagree or Strongly Disagree
Critical thinking	97%	3%
Independent learning	85%	15%
Person-centered approach	99%	1%
Scientific method	59%	41%
Evidence-based practice	90%	10%
Self-assessment	95%	5%
Use of technology	75%	25%
Collaborations with health professionals	84%	16%

Another aspect of the survey addressed the students' perception of their experience at LLUSD and the impact of the following elements on their preparation for the practice of dentistry.

	Agree or Strongly Agree	Disagree or Strongly Disagree
"My experience at LLUSD prepared me"	92%	8%
"I was treated fairly at LLUSD"	81%	19%
"My academic program prepared me"	92%	8%
"My clinical training prepared me"	95%	5%
"My professional training prepared me"	91%	9%
"Service learning experiences prepared me"	65%	35%
"The spiritual values and attitudes prepared me"	70%	30%
"The relationships I developed prepared me"	95%	5%

Major extracurricular events

- During the annual student dental conventions, February 2008 and 2009, students participated in their traditional fundraiser by providing display tables for vendors at the Exhibitors' Fair.
- The funds raised at the Exhibitors' Fair (\$17,000 in 2008-09) financed student representatives' trips on lobby day in February (meeting with legislators, senators, and other political leaders), to the annual session in March,

at regional dental meetings in August, and during a leadership conference in November.

- Lunch and Learn events initiated by students have brought professional lecturers to the campus. Students heard Dr. William Dorfman, Los Angeles cosmetic dentist and consultant for such ABC hit series as *Extreme Makeover* and *Entertainment Tonight*, describe the spectrum of his professional pursuits. Students active in planning for Lunch and Learn have included Nick Marongui, Adam Burr, Weston Spencer, and Donavon Yapshing.
- A Pine Springs Ranch retreat in October 2008 and November 2009 welcomed students and their family members to a weekend in the mountains for hiking, biking, playing football, and relaxing. The finale, organized by the student association officers, featured classes competing in games and performances.
- In addition to the Pine Springs Ranch retreat, the Dental Student Association planned a series of social events annually such as Tofurkey Bowl, Roller Skate night, Dental School BBQ's, Movie-on-the-Lawn night, intermural sports, bake sales, and Cookie Day.

Professional affiliations

These students represented their classes at professional organizations:

Academy of General Dentistry (AGD)

- Jimmy Cheung, SD'09
- Nicholas Marongiu, SD'10
- Albert Kang, SD'11
- David Westerhaus, SD'12

American Dental Education Association

- Julie Catalano, SD'09
- Janelle Peterson, SD'10
- Ralitza Varlakova, SD'11
- Glenn Gregory, SD'12
- Melissa Magsipoc, SD'13
- Melisa McEwen, DH'10

American Student Dental Association

- Jimmy Cheung, SD'09
- Benji Hadfield, SD'09
- Vitalia Borishkevich, SD'10
- Adam Burr, SD'11
- Michael Flewelling, SD'12
- Hyuni Lee, SD'12
- Kevin Prates, SD'13

California Dental Association

- Ryan Falke, SD'09
- Tristan Hamilton, SD'09
- Nicholas Marongiu, SD'10
- Scott Arceneaux, SD'11
- Vanessa Brown, SD'12
- Karen Watanakeeree, SD'13
- Prashant Verma, IDP'09
- Aswini Jagadeesh, IDP'10
- Varun Vashisht, IDP'10

Student Alumni Dental Hygiene Association

- Brie Victorsen, DH'09
- Jane Kim DH'10



Sue Jean Park, SD'09, and Michael Wall, SD'08, study.



Dental Hygiene students, class of 2009, anticipate their pinning ceremony.



R. Leslie Arnett, SD'68, MS, and Tracy Robertson, DH'09



2009 Loma Linda University convocation commences.



John Leyman, DDS
Chair

Department of Anesthesiology and
Special Care Dentistry

Continuing education innovation

The Department of Anesthesiology and Special Care Dentistry sponsored LLUSD's 28th and 29th anesthesia symposiums (2008 and 2009) during the February alumni conventions, with lectures by Jesus Berdeja, MD, LLUSM, Raymond Wong, MD, LLUSM, Barry Krall, SD'90, assistant professor, John Leyman, DDS, associate professor, Kimberly Otsuka, MD, and Larry Trapp, DDS, MS, associate professor. During the 2008 session, Drs. Trapp and Krall introduced an innovative, simulation session. Simulation training, well established in complex, high risk industries such as aviation, nuclear power, and the military, was pioneered in anesthesia in the mid-1980s. Using high fidelity, interactive patient simulations, it has fostered development of superior clinical skills without risk to patients. The session addressed management of medical emergencies most commonly encountered in the dental office.

Continuing education programs presented in other venues

Dr. Trapp presented a day-long continuing education course entitled "Pre-anesthesia Preparation and Management of the Medically Compromised Dental Patient" to the California Society of Oral and Maxillofacial Surgeons, Costa Mesa, CA, on November 5, 2008.

Dr. Trapp also presented "Sedation of the Pediatric Dental Patient: The Last Fifty Years," and "Pediatric Sedation: Where Do We Go from Here?" to the California Pedodontic Research Conference in Mammoth Lakes, CA, on October 12, 2009.

Dental anesthesiology curriculum development

Dr. Barry Krall has been integrating simulation into the dental anesthesiology curriculum. Currently, two or three residents undergo weekly simulation training at the new Simulation Center in the Centennial Complex.

Predoctoral curriculum innovations

- Barry Krall, DDS, assistant professor, dental anesthesiology, completed preparation of a DVD for predoctoral students on which he demonstrates all the local anesthetic injections. In 4- to 7-minute segments, narration by Joni Stephens, EdS, MS, RDH, professor, Department of Dental Hygiene, explains close ups of Dr. Krall's work with patients receiving injections. The DVD covers eight local anesthesia procedures, nitrous oxide sedation, and emergency airway management. Students receive a manual accompanying the DVD.
- In 2009 Dr. Krall initiated an honors program in local anesthesia to teach interested and qualified students advanced injection techniques. The following twelve students are enrolled (four D4 and eight D3):

Adam Burr, Larina Chu, Andrew Corbett, Lisa Gortari, David Green, Patrick Hachee, Michael Hiersche, Bryan Horgan, Jonathan Jackson, Stuart Scheult, Christopher Torres and Donavon Yapshing.



Raelene McDowall, SD '07, pediatric dentistry resident, gives a lesson in brushing.



Kristi Wilkins, MA, BS
Chair

Department of Dental Hygiene

Entry-level BS program highlights

The Department of Dental Hygiene celebrated its 50th anniversary celebration in February 2009 at the Annual Alumni Convention, where \$13,000 in student scholarships were awarded through the continued generosity of the DH class of 1969, along with the first Amy Feldkamp-Jacobson Scholarship Memorial Award.

Seventy-six females and four male students successfully completed the BS entry-level program. The 2008 and 2009 classes earned 100 percent pass rates on the Dental Hygiene National Board Exam, with a total of 31 academic achievement awards presented at the respective pinning ceremonies.

Nine full-time and 10 part-time and per-diem dental hygiene clinical faculty oversee the seven-quarter dental hygiene curriculum through preclinical and clinical knowledge and skill development, including dental and oral health preventive sciences, and the integration of critical-thinking and research skill development. Summative evaluations of the curriculum include Objective Structured Clinical Exams (OSCE's) with "actor" patients, National Board Pilot exams, and 80-plus clinical competencies to meet entry-level live patient board requirements (eg: California and Western Regional board exams).

BS online degree completion program

This synchronous, online program is designed for licensed

dental hygienists who have graduated with an Associate in Science or certificate in dental hygiene and wish to complete the baccalaureate degree in dental hygiene with an emphasis in education or public health. The program graduated its first student in 2009, with a total of four students enrolled in their senior year anticipating graduation in the winter of 2010.

Student research winners

2009 dental hygiene students were awarded first place by the CDHA, second place by the CDA, and third place by the ADHA for their table clinic entitled, "Needle Deflection" study.

2009 dental hygiene students also were awarded third place and Honorable Mention by the CDA for their educational project entitled, "Mommy & Me."

2008 dental hygiene students were awarded third place by the CDA for a table clinic entitled, "Building Strength—Minimizing Dental Muscular Injuries."

Service Learning

Seventy-five total hours of community service are required of each dental hygiene student before graduation; approximately 20 percent of each class chooses an international mission trip; six enriching clinical rotations are service learning sites integrated into the senior student's weekly schedule.

Forty senior dental hygiene students, five DH faculty and two dental faculty volunteered to serve at the Los Angeles Forum's Remote Area Medical event in August 2009. A documentary of the event will be mailed to all Dental Hygiene alumni.

Ten dental hygiene students and their dental professor from the Fukuoka College of Health Sciences, Fukuoka, Japan, visited dental hygiene students and faculty in November 2009. They were provided a campus tour and instrumentation experience in the Nobel Lab. A group picture, certificate of completion and LLUSD gift bag was provided by the department.

Faculty updates

Kris Wilkins, MA, RDH, returned to chair position April 2008; Joni Stephens, EdS, RDH, professor, returned to clinical research and served as DH

accreditation coordinator through the 2009 CODA site visit—accreditation without reporting requirements was achieved for seven years.

Debbie Friesen, BS, RDH, assistant professor, and Colleen Whitt, BS, RDH, assistant professor, are working toward master's degrees at LLU in counseling and health professions education respectively. Darlene Armstrong, MA, RDHAP, assistant professor, is completing a doctoral dissertation at Azusa Pacific with expected graduation date of spring 2010.

Teachers of the Year chosen by the class of 2009 were Michelle Hurlbutt, BS, RDH, assistant professor, and Jennifer Moss, BS, RDH, assistant professor. The class of 2008 awarded Darlene Cheek, MPH, RDH, assistant professor, this honor at their pinning service.

Michelle Hurlbutt, MSDH, RDH, was named interim BS online degree completion program director in July 2009. In addition, she was appointed in October 2009 by Governor Arnold Schwarzenegger to serve on the new Dental Hygiene Committee of California.

Janeen Duff, MA, RDH, assistant professor, accepted the interim senior clinic director position for the 2009-2010 school year. Janeen has been elected to serve as the Tri-County Dental Hygienists' society president in 2010.

Marilynn Heyde, MPH, RDH, assistant professor, joined the department full time in July 2009 as the radiology course director. Jean Honny, MS, RDH, assistant professor, is on personal leave through June 2010. She earned a master's in Dental Hygiene at University of Missouri-Kansas City in May 2009.

Shelly Withers, MS, RDH, resigned as full-time assistant professor in June 2009. She is living and working in the Portland, OR, area near family and friends.

Michelle Wehling, BS, RDH, assistant professor, Sue Kim, BS, RDH, assistant professor, and Shelley Hayton, BS, RDH, assistant professor, joined the department as contract dental hygiene faculty for the 2009-2010 school year.



Dental Hygiene students from the class of 2009 participate in the School's annual pinning ceremony.

Dental Hygiene Student Awards

Award	2008	2009
Bates Award	Janak Gordhan	Cortney S. Bellinger
California Dental Hygienists' Association Outstanding Leadership Award	Tiffany Haack	Brie Victorsen
Clinician's Award	Laura Houghton	Lauren McEowen
Colgate STAR Award	Chelsea Doyle	Melissa McEwen
David Lee Anderson Tuition Scholarship Award	Kati Schmalz	Lori Lujan
Dean's Award	Erin Abston	Melissa Beesley
Dental Hygiene Academic Excellence Award	TBA	Melissa Beesley, Keri Booker, Kelli Boyd, Rebecca Burke, Ashley Fujikawa, Tiffany Harris, Jessica Hatch, Roksana Kouroshnia, Lori Lujan, Katelyn Malone, Chelsey Martin, Lauren McEowen, Melissa McEwen, Merinne Mesku, Jaclyn Ortiz, Jamie Patton, Tracy Robertson, Leslie Ross, Amy Russell
Klooster Humanitarian Award	Sara Staker	Jessica Black
National Association of SDA Dentists Award	Adrienne Alexandru	
Middleton Award	Victoria Shelton	Amy Russell
Mitchell Award	Tiffany Haack	Jamie L. Patton
Preventive Dentistry Award for Research	Melinda Hall, Laura Houghton, Rachel Rasco	Cortney S. Bellinger, Shannon Chennault, Lori Lujan
Tri-County Dental Hygienist's Society Award	Charis Wright	Brie Victorsen
Student of the Year Award	Tiffany Haack	Kelli Boyd
Western Society of Periodontology Award	Breanne Cox	Dana Deguzman
Service Learning Award	Mindy Goltiao	Melissa D. Beesley
Sigma Phi Alpha Award		Melissa Beesley, Kelli Boyd, Kerri Booker, Melissa McEwen, Julie C. Coan (from first graduating class of Dental Hygiene Degree-Completion Program)
American Association of Public Health Dentistry	Mindy Goltiao	Loredana Burciu



Robert Handysides, DDS
Chair

Department of Endodontology, Predoctoral Program

The field of endodontology is fluid, changing, and advancing in materials, techniques, and related technology. In the predoctoral program students explore tooth retention strategies, and are prepared to tell the patient, “There is no perfect substitute for your own tooth. A healthy, natural tooth uniquely aids chewing.”

Faculty transitions

On July 1, 2009, Leif K. Bakland, SD’63, founding chair of the School’s Department of Endodontology, stepped down from the position. Guiding the department for 29 of his 33 years on campus, Dr. Bakland felt it was time to start moving toward semi-retirement. A widely published textbook editor and professional writer, the much-traveled Dr. Bakland has lectured in more than 200 venues on six of earth’s seven continents. He continues to serve as LLUSD’s gray eminence and scribe, recording its history and achievements as well as remaining active in both the predoctoral and postdoctoral programs.

Robert Handysides, SD’93, became chair of the Department of Endodontology in July 2009. Dr. Handysides practiced general dentistry in Canada before entering LLUSD’s advanced education program in endodontology. He joined the faculty in 2001.

Upon completing a residency in the endodontology program in September 2009, Bonnie Retamozo, SD’05, accepted a faculty appointment.

Ronald Buell professorship appointment

Out of respect for their colleague, Ronald Buell, DDS, faculty and staff established a fund in 1990 to provide income for faculty enrichment, recruitment, research and student assistance in endodontology. Dr. Buell, who died on June 1, 1996, provided a significant gift to be used for establishing a professorship. At the 2008 LLUSD commencement ceremonies, Dr. Leif Bakland’s appointment to the first Ronald E. Buell professorship was announced in recognition of Dr. Bakland’s active engagement in advancing endodontology education.

Honors program

Weston Spencer, class of 2010, received the department’s appointment in a newly developed endodontology honors program for predoctoral students. His assignments include working in the preclinical ENDN 832 course, attending treatment conferences, and being specially mentored on the clinic when he treats more difficult cases.

Faculty award

Dr. Handysides received the Teacher of the Year award during the School’s 2008 commencement ceremony. His selection, that had input from students, faculty and staff, brought this comment from a student: “Dr. Handysides may be the best instructor in the School, hands down.”

Faculty activity

Dr. Handysides, was selected by the American Dental Education Association to join 21 colleagues from across the country for participation in its Leadership Institute, February 2009 to February 2010. The program included a self-assessment battery of tests, a segment on management of a department, and a legislative component, which included meeting with congressional representatives in Washington, D.C. The institute participants will collaborate on creating a position paper on a topic in dental education.

Textbook authorship

A currently published endodontology text bears the names of LLUSD faculty authors:

Endodontic Principles and Practice, 4th edition, was edited by Mahmoud Torabinejad, DMD, MSD, PhD, program director, Advanced Education in Endodontology and Dr. Richard Walton, former chair, Department of Endodontology at the University of Iowa. Additional



Dr. Handysides mentors D4 dental student Vince Drouin.

authors included Drs. Leif K. Bakland, Charles J. Goodacre, and Shahrokh Shabahang, PG'97, MS'97. The most utilized endodontics textbook for predoctoral students, this edition contains 48 videos demonstrating procedures and includes a section of questions and answers for evaluation of students.

Professional achievements

- Dr. Robert Handysides ABE certified: November 2008
- Dr. Manouchehr Pouresmail ABE certified: November 2008

New equipment

Installation of four new Zeiss OPMI Pico operating microscopes in the predoctoral endodontics clinic during fall quarter, 2009, has provided the high magnification necessary for responsible endodontics. Better visualization of the tooth's pulpal anatomy allows predoctoral students opportunities to treat endodontic cases visualizing the more complex anatomy.

Exposure to this innovative equipment before graduation teaches students the importance of light and magnification, and should enhance their future performance in dentistry.

International activity

Shawn Anderson, SD'05, PG'09, assistant professor, traveled in Guatemala with a team of dentists, dental students, doctors and other healthcare providers from LLU for 10 days in September 2008. Accompanying a

church group from Florida, the team entered a high-risk travel area for foreigners. Escorted by military soldiers for the entire trip, they traveled many miles with the necessary clinical equipment to provide medical, optical, and dental services as well as spiritual nourishment in several cities. Clinical settings varied from schools to outdoor pavilions, where hundreds of appreciative patients underwent examination, treatment and medications.



Nobel Biocare simulation station



Lane Thomsen, DDS, MS
Chair

**Department of Oral Diagnosis,
Radiology, and Pathology**

On-site scientific session

The faculty of the Oral Diagnosis, Radiology and Pathology Department (ODRP) hosted the Western Society of Teachers of Oral Pathology (WESTOP) at its September 2009 meeting. In the scientific session on smoking cessation in the dental setting, Lane Thomsen, DDS, chair, ODRP, moderated the presentations by David P.L. Sachs, MD, director, Palo Alto Center for Pulmonary Disease Prevention, and Linda Hyder Ferry, MD, associate professor, LLUSM and School of Public Health. Notable attendees included Elizabeth Anderson, DDS, MS, oral pathologist at Western University of Health Sciences College of Dental Medicine, Pomona, CA, the country's newest dental school, and Mark Bernstein, DDS, professor of Oral and General Pathology at the University of Louisville, School of Dentistry, Kentucky, who traveled the farthest to be present.

Tobacco cessation participation

A concentrated tobacco cessation focus at Loma Linda University began with a generous gift from a grateful patient to David P.L. Sachs, MD, of the Palo Alto Center for Pulmonary Disease and Prevention. Acting on his patient's request, "Use the funds to do something you can't otherwise do," Dr. Sachs placed the funds in his non-profit corporation in 1985 and in 2007 invited four Loma Linda University schools (nursing, medicine, pharmacy, and dentistry) to create tobacco cessation strategies specific

to their disciplines. Dr. Sachs' foundation has sponsored, among others, the participation of Dr. Lane Thomsen and Darlene Cheek, DH'71, MS, assistant professor, at the Society for Research in Nicotine and Tobacco's 2008 meeting in Portland, Oregon, and at the organization's international meeting in Dublin, Ireland, in April 2009.

Faculty transitions

Heidi Kohltfarber, SD'03, assistant professor, who joined the Department of Oral Diagnosis, Radiology and Pathology (ODRP) in July 2003, has taught D2 classes in patient diagnosis and treatment planning. Since July 2009 she has been on leave to pursue a three-year master of science degree in oral and maxillofacial radiology. She plans to return to the School when she completes her program.

Dwight Rice, SD'96, assistant professor, formerly of Idaho, where he had established a practice, joined the faculty in 2009 with a full-time appointment to teach radiology in the predoctoral and dental hygiene programs.

Heidi Christensen, SD'83, MS, associate professor, who served on the faculty from 1992 to 2006, has returned from a two-year appointment as chair of the Department of Oral Diagnostic Sciences and director of continuing education at Meharry School of Dentistry in Nashville, Tennessee. Since 2008 she has served as course director for radiology, patient diagnosis and treatment planning.

Audrey Mojica, SD'08, joined the ODRP faculty as part-time assistant professor on July 7, 2008. Her principal assignment involves teaching patient diagnosis and treatment planning.

Jennifer Fang, SD'08, assistant professor, who completed a post-graduate degree in orofacial pain and oral medicine at the University of Southern California in 2006, joined the ODRP faculty in September 2008. Dr. Fang is teaching oral facial pain and TMD courses.

Faculty activity

Dr. Christensen returned to Meharry School of Dentistry in February 2009 to teach a CE course in radiation safety and infection control.

Dr. Christensen served on the graduate research committee for Thomas Kim, DDS, MS, whose research was titled "A Comparison of Cone Beam Computed Tomography in the Examination of the Mandibular Canal and Adjacent Structures."



Joshua Cartter, SD'09, works in the Nobel Biocare laboratory.

Ali Makki, DMD, associate professor of orofacial pain, has been appointed director of the Hoag Oral Facial Pain Center, Newport Beach, California. His orofacial pain residency, completed at UCLA, focused on the management of difficult primary headaches and complex facial, head and neck pain disorders.

Anticipating pursuit of a graduate program in oral radiology, Dr. Rice, attended a week-long course in June 2009 at the University of Texas, San Antonio Institute of Dental Radiology Educators.

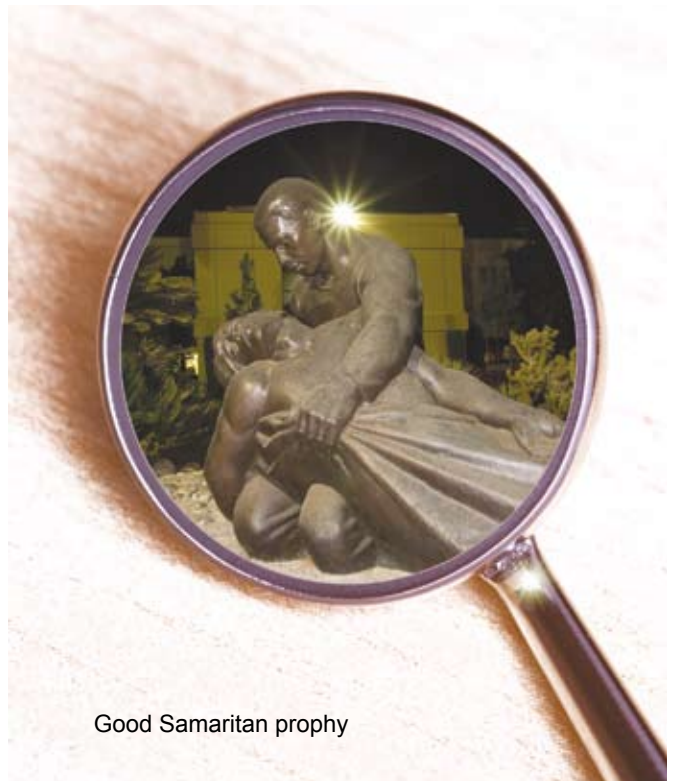
Sponsoring a student table clinic, "Computer Aided Diagnosis of Oral Pathology," prepared by D4 students Brian Evans, Ryan Falke, and Sue Jean Park, Susan Richards, SD'84, associate professor in ODRP, helped the students celebrate their first place award in the dental education division at LLUSD's 2008 Alumni Student Convention.

Dr. Richards served as vice chair and secretary for the University's Interschool Faculty Advisory Council during the 2008-09 school year. She also chaired the nominating committee.

Lane Thomsen, SD'65, MS'74, completed a colorful two-year chairmanship of the Faculty Council at the end of 2009. He also represented LLUSD at the ADEA meeting of the Council of Faculties.

In June 2008, a proposal prepared by Jean Honny, DH'97, MS, assistant professor, produced the award of a grant from Versafund to purchase a third Nomad portable x-ray unit and intraoral sensor kit. These units are notably useful in remote areas where electrical current is unstable or absent. They are utilized during the quarterly breaks by students and faculty embarking on mission trips.

Neal Johnson, SD'08, PhD'04, assistant professor, dental education services, received a \$5,000 seed grant award from the LLUSD Center for Dental Research to investigate novel antimicrobial peptides (bacteriocins) in the oral cavity. His research also examines the use of certain plants indigenous to the Caribbean region in the treatment of various oral infections and oral squamous cell carcinoma.



Good Samaritan prophy



Joseph Caruso, DDS, MS, MPH
Chair

Department of Orthodontics

New site for the Orthodontics Department

Appointed associate dean for strategic initiatives and faculty practices in 2008, Joseph Caruso, SD'73, MS'75, MPH'75, also chairs the Department of Orthodontics. Despite his dual positions, Dr. Caruso, along with Roland Neufeld, SD'74, MS'76, assistant professor, oversaw renovation of a never-before-occupied, 19,600 square-foot building, to house the Department of Orthodontics and the Advanced Education Program in Orthodontics and Dentofacial Orthopedics.

By July 2009, on the second floor of the building at 159 Hospitality Lane in south San Bernardino, the orthodontic team was installed. In quarters nearly twice the size of the department's original space in Prince Hall, staff, faculty, and patients shared the advantages of closed circuit TV monitoring throughout—in the patient waiting rooms, the operatories, and hallways.

The Orthodontic Department staff anticipates the arrival of practitioners who have been working in cramped quarters at the Faculty Dental office on Taylor Street. They will find a modern setting for their first floor offices.

Faculty expansion

Distance learning initiated in 2001 with orthodontist Ivan Dus, MD, PhD, DDS, has now expanded to include other orthodontists: Duane Grummons, DDS, assistant professor; James Hilgers, DDS, MS, associate professor;

Ruel Bench, DDS, associate professor; and Robert Grove, PhD, muscle physiologist.

Professional visitor

Jens Andreasen, DDS, May 2008, lectured at a joint meeting planned by orthodontics and endodontics faculty on tooth transplantation. Dr. Andreasen, long time researcher, educator and textbook author at Copenhagen University Hospital, is a world authority on dental traumatology.

Workshop

A three-day tyodont course for residents in the summer of 2008, taught by internal faculty at the end of the residents' first quarter, provided experience going through wire binding on models showing certain types of malocclusions.

Honors students

Three students participated successfully in an honors program in 2009:

- Devin Gerrard, SD'09
- Shaun Flynn, SD'09
- Claire Lee, SD'09

Three students entered the honors program in 2009:

- Jerhet Ask, SD'10
- Soh Yeun Kim, SD'10
- Iris Choi, SD'10

Equipment upgrade

The department is developing a teledentistry video camera to streamline images of patient treatment from one location to another.



New home of Department of Orthodontics and the Advanced Education Program in Orthodontics and Dentofacial Orthopedics



Alan Herford, DDS, MD
Chair

Department of Oral and Maxillofacial Surgery

New faculty

These new staff are supplementing the faculty in the Department of Oral Maxillofacial Surgery:

Mei Lu, DDS, PhD, MS, associate professor, an oral surgeon trained in China, joined the faculty in July 2008 to supervise student research.

Jeffrey Dean, DDS, MD, of Pocatello, Idaho, accepted an assistant professorship in which he will serve twelve weeks per year.

Carlos Moretta, SD'01, accepted a full-time faculty appointment as assistant professor.

Awards

Wayne K. Tanaka, DDS, associate professor, and predoctoral program director of oral and maxillary surgery, has become a fellow of the American College of Dentists (ACD), an appointment based on his leadership exhibited in his profession and community. At induction ceremonies in San Antonio, October 16, 2008, Dr. Tanaka joined 7,000 fellows of ACD in the invitation only, and oldest, national honorary organization for dentists.

Philip Boyne-Peter Geislich Professorship

Before his death on June 9, 2008, Dr. Philip J. Boyne, emeritus professor at LLUSD, internationally known for his research and contributions in oral

and maxillofacial surgery, established with his colleague, Peter Geistlich, a biomaterials research scientist of Zurich, Switzerland, a professorship. This professorship is just one of Dr. Boyne's remarkable career contributions. The appointment of Dr. Herford, SD'94, as the first occupant of the Philip Boyne-Peter Geistlich professorship, was announced at LLUSD's 2008 graduation ceremonies.

Oral & Maxillofacial Surgery Foundation award

The Oral & Maxillofacial Surgery Foundation awarded \$15,000 to the Department of Oral Maxillofacial Surgery for excellence in the care of trauma patients, innovation, and scholarship contributions. The award came on October 14, 2009, at the American Association of Oral and Maxillofacial Surgeons conference in Toronto, Ontario.

Student competition

Three class of 2009 students—Justin Weaver, SD'10, Emily Herndon, SD'10, and Kari McCloskey, SD'10—mentored by Drs. Wayne Tanaka and Mei Liu, took first place at the February 2008 Alumni Student Convention at Loma Linda University. The students had prepared a self-instructional DVD for dental students, "Principles and Techniques of Intraoral Suturing." They subsequently won first place at the California Dental Association (CDA) convention. Their project was published in the CDA's December 2009 issue.

As current president of the Loma Linda Chapter for the American Association for Dental Research (AADR) National Student Research Group (NSRG), Justin Weaver represented LLU School of Dentistry at the recent (May 3-5) 45th Annual American Dental Association Student Research Conference in Gaithersburg, Maryland. The annual conference provides an opportunity for students to present their research projects, to network, and to learn about new directions in dental research.

Winning honors at the February 2009 CDA convention were Luke Cockerham and Nicholas Wilson, SD'10, for "VisionStar Solo" (third place); mentors Drs. Charles Goodacre and Mei Lu.





During the recent biennium, Loma Linda University either constructed or acquired several new facilities. Pictured clockwise from left on these two pages are the new, 28-bed Heart and Surgical Hospital on Barton Road in Redlands; the 46,000 square foot Behavioral Health Institute Outpatient Pavilion on Iowa Street (also in Redlands); LLUSD's Center for Dentistry and Orthodontics just off Hospitality Lane in Loma Linda; and Highland Springs Medical Plaza, offering urology services in its 90,000 square foot Highland Springs Medical Plaza in Beaumont. Behind the four healthcare delivery facilities is Loma Linda University's new Centennial Complex. With 151,000 square feet of classrooms, laboratories, and offices, this building is the University's first new academic structure in over 30 years.



Staff education

To promote staff education, members of the department began in 2005 attendance six to eight times of year at Emergency Response Drills either in clinic or at classes sponsored by oral surgery or anesthesiology professionals.

In March 2008 five staff, two chief residents, and two students attended the California Dental Surgery Association response drill meeting in Costa Mesa. In October, two faculty, two qualified oral surgery assistants, and one staff member attended the California Association of Oral and Maxillofacial Surgeons meeting. Dr. Tanaka explained the inclusion of staff in the drill. “The front desk person can help maintain calm. We don’t need hysteria and fainting in an emergency situation.”

Dental assistants’ anesthesia workshop

The Department sponsored its dental assisting staff—Sobeyda Samllridge, RDA, OSA, Elena Ceniceros, OSA, and Tammy Davis, OSA—at a two-day assistants’ anesthesia workshop in Las Vegas in February 2009.

Equipment

Students welcomed a new mannequin for practicing intubation and CPR in emergency situations.

Visiting lecturer

Glen Houston, DDS, chair, oral-maxillary pathology at the University of Oklahoma, returned again in 2008 for his annual lecture to OMFS residents.

Honors program participants

Kimberly Bentjen, SD’08, and Sonny Porter, SD ’09, qualified for and completed the department’s honors program in 2009. Qualifications included upper third class standing, clinically and academically, and consistency in exemplary personal and professional integrity.

The department’s honors program in conscious sedation was also completed by Sonny Porter and by Vincent Drouin, SD’09.



Mike Boyko, SD’75A, MPH, assistant professor, mentors.



Students double-team a grateful patient.



Bonnie Nelson, DDS
Chair

Department of Pediatric Dentistry
“Even a little toothache hurts a lot.”

Pediatric dental education addresses the specific tasks of relating to the patient population:

- + working with uncooperative children and special needs children
- + maneuvering in hospital settings with hematology and oncology children
- + dealing with emergency room and operating room interactions
- + using age-appropriate terminology
- + easing parental concerns

Faculty transitions and achievements

Robert Traficante, DDS, associate professor, was named a consultant and examiner for the American Board of Pediatric Dentistry Oral Clinical Board Examination.

Dr. Traficante also was named a judge for the graduate student poster presentations at the May 2008 meeting of the American Academy of Pediatric Dentistry meeting.

J. Todd Milledge, SD'99, PG'95, was promoted to full professor.

With the departure of Robert Traficante, DDS, and Richard Grabowsky, DDS, assistant professor, successive directors of the clinical training program, Jung-Wei (Anna) Chen, DDS, MS, PhD, was appointed

program director of advanced education in pediatric dentistry on August 1, 2009.

Jung-Wei Chen, DDS, MS, PhD, completed dental education at Taipei Medical College School of Dentistry (1996), a master's in oral biology at the University of Maryland (2000), and a doctorate in health informatics at the University of Texas (2007) before becoming a full-time associate professor in LLUSD's pediatric department (August 2008).

Dr. Chen has expertise with a nasal moulding application for babies with cleft palate. Inserting the mouthpiece shortly after birth reduces the need for as many corrective surgeries later in life.

Departmental accreditation

In 2009 the department successfully passed site scrutiny by the Commission on Dental Accreditation.

Program change

Because the American Board of Pediatric Dentistry no longer has a recommended board reading list, PEDN604, Dental Literature Review, was incorporated into the Journal Club.

Honors program

Bryan Fletcher, SD'08, clinical instructor, and Noha Abdel-Salam, SD'08, clinical instructor, completed the department's honors program in 2008.

Julie Catalano, SD'09, and Shaun Flynn, SD'09, completed the program in 2009.

The honors program is an enriched program that oversees participation for the students in case presentations, literature reviews, visits to specialty clinics (anesthesiology and oral sedation), residents' classes, and review of academy guidelines. They go on-call with residents and spend extra time in the pediatric clinic.

Service activities

During Give Kids a Smile in February 2008 and 2009, faculty and students provided dental care to underserved pediatric patients.

At the Children's Health Fair, May 2008 and 2009, approximately 1,500 children visited the campus-wide event staged in conjunction with Loma Linda University



Sameh Alzayat, SD'04, and Dylan Osborne

Medical Center. Students and faculty introduced children to the dental chair, distributed toothbrushes, and provided dental education.

Dr. Bonnie Nelson, SD'88, joined 30 members of the Calimesa Seventh-day Adventist Church who went to Honduras in March 2009 to conduct a health fair, Vacation Bible School, and school upgrade. Three 2010 class members—Iris Choi, Nick Marongiu, and Lance Alder—joined several alumni—Michael Fillman, SD'74, MS'84; Richard Parker, SD'71, MS'73; Grace Chu-Kim, SD'07; Jennifer Hoffer, '94, PG'01, MS'02, and Fredericke Hoffer, SD'96—to participate in dental health care on the Honduras trip.

Dr. Nelson participated in Project Nathan for handicapped children in June 2009, and with patients in a burn hospital during the School's annual trip to Nicaragua. Because so much cooking in the area is over open flame, children frequently suffer burns. Other children with cerebral palsy, blindness, or Downs syndrome who can't sit through a session with a regular dentist received full-mouth restorations, extractions, and surgery as needed. Without the Nathan's Project team from LLUSD, these children would not have access to dental care.

Dr. Grabowsky participated in an ongoing free clinic in San Diego, and provided supervision for dental students at Clinic With a Heart (January 2008) and Clinic With a Smile (February 2008).

Other faculty overseeing Clinic With a Heart (2008) were Drs. Traficante Milledge and Wesley Okumura, SD'94, PG'03, assistant professor. Dr. Traficante also supervised at Clinic With a Smile (February 2008).



Procera demonstration in the Nobel BioCare Laboratory



Craig Ririe, DDS, MS
Interim Chair

Department of Periodontics

New faculty*

Dennis Smith, DDS, MS, joined the Department Periodontics in November 2008 as part-time faculty. With private practice experience and certification in both prosthodontics and periodontics, Dr. Smith previously taught at the University of Washington.

Navneet Arora, BDS, MPH, who also became a part-time assistant professor in November 2009, completed dentistry in India and a public health master's at LLUSD in 2005. He then completed a residency in periodontology at Eastman Dental Center in Rochester, New York, while completing his MPH. He received the Selma Andrews Award in 2005 for excellence in teaching biostatistics at LLU.

Denine T. Rice, SD'97, PG'02, MS'02, who has a private periodontics practice in Riverside, California, returned in 2009 to her alma mater to serve part-time as assistant professor.

Chun-Xiao Sun, DMD, PhD, MS, MSD, associate professor, joined the periodontics faculty after receiving his certificate in periodontics and an MSD degree from Loma Linda University. Dr. Sun also has a PhD from Shanghai Second Medical University in China.

* It should be noted that periodontic faculty teach in both predoctoral and advanced education programs.

Faculty awards and activities*

Nikola Angelov, DDS, MS, PhD, associate professor, received the departmental award, outstanding teacher and mentor in periodontics at LLUSD. In 2008, he became a diplomate of the American Board of Periodontology in 2009. Dr. Angelov, who completed dental studies and a doctorate in Skopje, Macedonia, pursued a postdoctoral fellowship in oral infection and immunity at NIH before joining the LLUSD faculty in 2004.

Dale Johnstone, DDS, assistant professor, was installed as president for the Orange County Dental Association in October 2009.

Klaus Wolfram, SD'71, MS'73, associate professor, received the International Dentist Program Teacher of the Year award for the fourth consecutive year in 2009. Dr. Wolfram taught for ten years at LLUSD until his expanding private practice claimed his time. Returning to teach periodontics full-time in 2005, he was appointed to teach in the International Dental Program.

Albert Weissman, DDS, MS, a certified periodontist, joined the LLUSD faculty in 2005 as assistant professor in the pre-doctoral and graduate periodontics departments. Named the 2009 outstanding teacher and mentor in periodontics at LLUSD, he received an American Academy of Periodontology award.

Periodontics symposium

The Department's second annual symposium scheduled (inadvertently) on Super Bowl Sunday, 2009, nevertheless attracted 200 participants. The presenters in the all-day session—Nikola Angelov; Paul Fuentes, DDS, PG'88; Les Arnett, DDS, MS'68, professor; Albert Wiessman; Mohamed Hassan, BDS, PG'04, MS'04, assistant professor; Stephen Silston, DDS, MSD, assistant professor; Oliver Hoffmann, DDS, PG'04, MS'04, associate professor; and Adrian Mabilia, DDS, associate professor—offered practical skills for general dentists and hygienists seeking to better serve their patients.

Pilot periodontal practice seminar

With the advent of fluoride treatment and hygienists' soft tissue management, the number of periodontal disease patients in the dental clinic declined. To enrich students' experience in periodontal surgery, the Department of Periodontics instituted a pilot periodontal practice seminar. In groups of five, D-4 students rotated through the department during the summer and fall quarters



Holli Riter, SD'98, assistant professor, Restorative Dentistry



Class of 2010 dental students, Annalise Hilliard and Darcy Kasner, contemplate a model.

of 2009, for a four-hour session which summarized important issues for future general dentist practitioners to know. Students received a CD with current reference material and the department's step-by-step video of preparation for surgery.

Professional visitors

Hosted by LLUSD's Dr. Nikola Angelov, Drs. Sasko Bogdanovski and Andrejco Grncarovski of University St. Cyril in Methodius, Macedonia, spent six weeks in spring 2009 shadowing faculty, observing surgery, and participating in residents' seminars. The visit marked a time of reunion for the three professors who had studied together from high school through dental school. The visitors returned to Macedonia to lecture on oral surgery, prosthodontics, and "how LLUSD works," planning to emulate the teaching skills of LLUSD professors.

Student awards

Just months before their graduation, these students received awards in January 2008 and 2009:

- ♦ Jennifer Clark, SD'08, and Beatrice Criveanu, SD'09, received from the American Academy of Periodontology certificates and subscriptions to the *Journal of Periodontology* in recognition of their excellence in the field of periodontics.
- ♦ Nathan Latimer, SD'08, and Vincent Drouin, SD'09, received from the Western Society of Periodontology certificates and journal subscriptions for exhibiting special interest and proficiency in periodontics.
- ♦ Kari McKenzie, SD'08, and Graig C. Erickson, SD'09, each received from G. Hartzell & Son a clinician award (plaque and \$400) for demonstrating clinical excellence in diagnostic and treatment planning in periodontics, and exhibiting excellent patient and staff rapport and an appropriate attitude toward all aspects of periodontal therapy.

Clinic handbook

The Department of Periodontics published *Clinic Handbook: 2009-2010* for students. The 147-page volume addresses perio-related procedures appropriately performed in general dentistry: controlling plaque, achieving oral hygiene, evaluating treatment success, determining when to refer. It also offers practical information on such topics as managing a staff, keeping records, managing pain, and reducing fear.



Douglass Roberts, DDS, MS
Chair

Department of Restorative Dentistry

Department news

Faculty who have finished advanced education programs and remained or returned to LLUSD in 2009:

- Ronald Forde, SD'83, PG'09, assistant professor, completed the Advanced Education Program in Prosthodontics at LLUSD.
- Madelyn Fletcher-Stark, SD'00, MS, assistant professor, completed the graduate prosthodontics program at the University of Washington.
- Robert Walter, SD'99, assistant professor, completed the graduate prosthodontics program at the University of Washington.
- Jon Won, SD'05, PG'09, assistant professor, completed the Advanced Education Program in Prosthodontics and in Implant Dentistry at LLUSD.
- Luminita Narita, SD'09, assistant professor, completed LLUSD's IDP program.

Faculty activities

Michael Meharry, SD '80, assistant professor, was officially inducted as a member of the American Board of Operative Dentistry at its February 25, 2009, annual Chicago meeting.

Dr. Meharry served as American Board of Operative Dentistry Examiner, Part II qualifying exam, Indiana University, Indianapolis, IN, June 22-24, 2009.

Gary Golden, SD'76, assistant professor, has introduced the Nobel Biocare CAD/CAM laboratory procedure in the D2 Fixed Prosthodontics course. One of the projects in the course provides students experience using the Nobel Biocare scanning system to make a ceramic coping for one of their tooth preparations.

In June 2009, Clyde Roggenkamp, SD'70, MS, associate professor, donated his Cessna 210 Centurian aircraft to the Andrews University Department of Aeronautics.

Faculty awards

Mark Estey, SD'98, PG 03, associate professor and section chief of removable prosthodontics, was inducted into the LLU chapter of the Omicron Kappa Upsilon (OKU) dental honor society in 2008.

Brian Novy, SD'06, assistant professor, received the Arthur A. Dugoni Faculty Award, sponsored by the California Dental Association foundation to recognize exceptional leadership, innovation, collaboration, compassion, philanthropic spirit, and integrity in dental education. This \$5,000 award will support Dr. Novy in obtaining a fellowship in the World Congress on Minimally Invasive Dentistry, and fund a preliminary research project assessing the efficacy of minimally invasive treatment modalities in students at a Southern California elementary school.

Dr. Novy received the first annual "Adult Preventive Dentistry Practice Award" at the 2009 ADA meeting in Hawaii.

Nadim Baba, DMD, MSD, associate professor, won the AAFP's Claude R. Baker Faculty Award recognizing exceptional dental school junior faculty members in pre-doctoral fixed prosthodontic teaching.

Educational changes

Restorative faculty are now providing quality control oversight to the School's Dental Laboratory Services that has cut remakes by 30 percent.

Equipment upgrades

Nobel Lab (Prince Hall room 1140) instructors are now able to display projects and lectures on the computer monitors at each station so that students can have the course project or information in front of them for the entire lab time, or receive announcements as the course director chooses.



Class of 2009 dental student graduates, Eric Grove, Allison Phang, and Jessica Smith celebrate.

Dental Anesthesiology



Larry D. Trapp, DDS, MS
Director



Barry Krall, DDS
Associate Director

**Advanced Education Program
Dental Anesthesiology**

A career in dental anesthesiology allows a dentist to provide the full scope of perioperative pain and anxiety management for patients undergoing all types of dental treatment. Residents in the Advanced Education Program in Dental Anesthesiology render anesthesia care for dental patients in the Koppel Special Care Dentistry (SCD) Center. Most of the approximately 5,000 yearly patients are preoperative pediatric and adult special needs patients who receive general anesthesia by the dental anesthesiology residents, with the dental treatment provided by members of the School of Dentistry faculty.

Residency information

The Advanced Education Program in Dental Anesthesiology accepts six residents each year into a 24-month training program. The residents rotate to three regional medical centers for a total of thirteen months, for experience in operating room protocol, medical anesthesia, cardiology, and internal medicine. LLU offers one of the most clinically intensive dental anesthesiology residency programs in the United States.

In order to track the actual number of cases each resident provides, and to be able to provide meaningful resident evaluations, the residents input each case profile and statistics into a web-based software package purchased by the department. Approximately fifty percent of all medical anesthesia training programs in the United States use

this software, which makes monthly evaluations by the hospital attending anesthesiologists easier to prepare.

Patient statistics

The anesthesiology department treated nearly 10,000 patients during the biennium, approximately 85% of whom were under 21 years of age.

Remodeled facilities

With a patient population that necessarily arrives with care providers, space is important. Keeping pace with the opening of the Koppel SCD Center in May 2007, and the introduction of axiUm, when the School's comprehensive clinic management software package was installed in 2008, the department upgraded its clinical facilities and support areas with a number of small remodeling projects:

- Transforming a storage area to the staff break area (2008)
- Remodeling the original staff break area to create a consultation room for dentists discussing treatments options with the care provider and obtaining consent for treatment (2008)
- Altering the exam room to provide an area for computer access to electronic medical records (2009)
- Converting a second storage area to a private consultation room (2009)

Dental Anesthesiology

New equipment

In 2009 the department purchased a Glide Scope® designed to help manage difficult and unpredictable airways. This video laryngoscope provides a real-time view of the patient's airway and endotracheal tube placement. The system has anti-fogging properties and a non-glare color monitor to facilitate rapid airway management.

Professional visitors

- John Holt, DDS, Dental Anesthesiology, PG'02, of Amarillo, Texas, spent a week as a visiting professor in 2008.
- In 2008, Paul A. Moore, DMD, PhD, MPH, chair of Anesthesiology at the University of Pittsburgh, School of Dental Medicine, and Joseph Giovannitti, DMD, director of anesthesia services at the Center for Patients with Special Needs, University of Pittsburgh, visited the Koppel SCD center and reviewed the program as a part of our preparation for the Western Association of Schools and Colleges (WASC) accreditation in 2010.

- Dr. Masahito Sonoda (Ohu University, Japan) visited Koppel SCD in 2009 to learn about North American graduate education in dental anesthesiology, exploring opportunities in the United States for residencies and fellowships.

Joint Commission on Dental Accreditation

- The department's SCD accreditation team attended the October 2008 and November 2009 Joint Commission's Annual Ambulatory Care Conferences. Team members—John Leyman, DDS, Esther Cash, RN, Caroline Yap, RN, and Kathy Respicio, senior administrative secretary—heard topics addressing standards for maintaining accreditation status in ambulatory care centers and delivering innovative, high quality care.
- The SCD had a two-day, onsite accreditation visit in May 2009 by the Joint Commission. The Center received the highest level of re-accreditation.

2008 graduates

- Kourosh Dashty, SD'04, PG'08
- Salman Raza Hussain, DMD, PG'08
- Rajeev Misra, DDS, PG'08
- Babak Razmazma, DDS, PG'08

2009 graduates

- Phillip Bleak, DDS, PG'09
- Cheri Dang, DMD, PG'09
- Steven DeLisle, DDS, PG'09
- Tyler Johnson, SD'07, PG'09
- Kathryn Le, DDS, PG'09
- Amy Wong, DDS, PG'09

2008 students (incoming or first year)

- Negar Bolorchi, DDS,
- Julie Horng, DDS,
- Gary Hszieh, DDS,
- Dezireh Sevanesian, DDS,
- Matthew Wall, SD'08
- John Will, SD'08

2009 students (incoming or first year)

- Jonathan Channer, SD'09
- Neal Johnson, PhD, SD'08
- Jin Soo Kim, DDS,
- Nolan Korando, SD'09
- Sonia Kumar, DDS
- Sue Jean Park, DDS
- Chad Tomazin, DDS



An Anesthesia Symposium participant engages in a medical emergency exercise at the LLU Simulation Center.

Endodontics



Mahmoud Torabinejad, DMD, PhD MSD
Director

Advanced Education Program in Endodontics

Program innovations

The postdoctoral program in endodontics features a diverse faculty teaching various techniques. Data collected from its own sources and faculty observations in dentistry and endodontics are used to modify the program. Technological and curricular innovations are designed to keep students abreast of advances both in general dentistry and in endodontics.

- With a numerical requirement of 250 cases, the 27-month program provides students experience in clinical endodontics and time to complete their research projects.
- Students now take a course in conscious sedation to become eligible for certification in moderate sedation.
- Literature reviews have become electronic and are continually updated to prepare students for evidence-based practice and the American Board of Endodontics (ABE) examination.
- Students present 15 cases according to ABE guidelines before completing the program.
- Feedback from the program director at least every six months provides monitoring of student progress.
- The nature of research in the department is changing from basic science and animal studies to clinical investigations.
- Systematic reviews conducted in the program will become the foundation of future clinical studies.

- Postdoctoral students continue to have the opportunity to serve as mentors for predoctoral students and gain valuable teaching experience.

Accreditation results

An ongoing outcomes assessment program and reevaluation process aided the director in preparing copious documentation for the accreditation self-study report and on-site assessment during the February 2009 site visit by the Commission on Dental Accreditation.

Faculty award

Recipient of the School’s Distinguished Research Award, Mahmoud Torabinejad, DMD, MSD, PhD, program director, was recognized at the 2009 commencement for his extensive research activities: identification of mediators of inflammation in pulp and periradicular disease, and development of dental materials—mineral trioxide aggregate (MTA), and a mixture of tetracycline, an acid, and a detergent (MTAD). MTAD is a combination device and drug for use in root canal therapy. MTA has profoundly affected the practice of endodontics, improving the prognosis and outcomes in difficult clinical situations.

Textbook authorship

Two endodontics textbooks were authored by LLUSD faculty:

Endodontic Principles and Practice, 4th edition, was written by Dr. Torabinejad and Dr. Richard Walton, former chairman of the department of endodontics at the University of Iowa. Additional LLUSD authors included Leif K. Bakland, DDS, recent chair of the Department of Endodontics, Charles J. Goodacre, SD’70, MSD, dean, and Shahrokh Shabahang, DDS, PG’97, MS’97.

Ingle’s Endodontics, 6th edition, was co-written by John I. Ingle, DDS, MSD, Leif K. Bakland, DDS, and Craig Baumgartner, DDS, PhD, of the Oregon Health and Science University. Among the 88 contributors to this 1,500-page text are eleven LLUSD faculty or alumni: Drs. Nadim Z. Baba, Leif K. Bakland, Charles J. Goodacre, Robert Handysides, David Jaramillo, Alejandro Kleinman, Yiming Li, Jaime Lozada, Todd Milledge, Roderick Tataryn, SD’89, PG’94, MS’94, and Mahmoud Torabinejad.

Clinic re-modeling

Completion of the Graduate Endodontic Clinic remodeling climaxed with its dedication on October 7, 2008, as the “Mahmoud Torabinejad Graduate Endodontic Clinic,”

Endodontics

named in honor of the department's indefatigable researcher. Each operatory now has a microscope and camera, digital radiography (eliminating the need for a darkroom), and an ASI cart for equipment and instruments.

Professional achievements

- Robert Handysides, SD'93, chair of the Department of Endodontics, was certified by the ABE in November 2008.
- Manouchehr Pouresmail, DDS, ID'03, PG'05, was certified by the ABE in November 2008.

Student award

Yuan-Lung Hung, DDS, PG'07, a first-year student in the Advanced Education Program in Endodontics in 2008, placed in the top 10 in oral and poster research at the Annual Session of the American Association of Endodontics. His research, "The survival rate of implant placement in extraction sites and periapical lesions: A retrospective study," earned a \$1,000 award for Dr. Hung.

2008 graduates

- Tyler Frederic Baker, SD'03, PG'08
- Robert P. Corr, SD'03, MS'09
- Rylan Nels Gustafson, SD'02, PG'08

2009 graduates (and their research projects)

- Shawn Anderson, SD'05. Research project: "The effects of NaOCI and Ethanol on the antimicrobial substantivity of MTAD." Mentors: Drs. M Torabinejad, S Shabahang, N Johnson.
- Yuan-Lung Hung, Advanced Education Program in Implant Dentistry, SD'07. Research project: "The degree of patient satisfaction and complications during and after treatment with non-surgical root canal treatment and single implant therapy." Mentors: Drs. M Torabinejad, J Lozada.
- Thomas Kim, SD'07. Research project: "A comparison of CBCT and direct measurement in the examination of the mandibular canal and adjacent structures." Mentors: Drs. M Torabinejad, Heidi Christensen, Joseph Caruso.
- Bonnie Retamozo, SD'05. Research project: "The efficacy of 5.25% sodium hypochlorite at eliminating E. faecalis from the root canal system at 10-, 15-, 20- and 25-minute exposure times." Mentors: Drs. M Torabinejad, S Shabahang, N Johnson.

Entering postdoctoral students, 2009

These students entered the advanced program in endodontics on July 1, 2009:

- Hadi Faras, BDM, Kuwait University, 2008
- Joseph Packer, DMD, University of Nevada, Las Vegas, 2007
- Patrick Tsai, DDS, University of California Los Angeles, 2005

Entering postdoctoral students, 2008

- Matthew Buhrley, DDS
- Michael Turman, DDS



Bryan Fletcher, SD'08, pediatric resident, treats a young patient.

Endodontics

Faculty publications

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Hands-on Procera training for current and future prosthodontists

Implant Dentistry



Jaime L. Lozada, DMD, FAAID
Director

**Advanced Education Program
Implant Dentistry**

Student population

Implant Dentistry attracts a diverse population to its 36-month certificate program with an optional Master of Science (MS) or Master of Science in Dentistry (MSD) degree, not to mention its two options for the implant dentistry fellowship program (one year full time or two years part time). Non-degree students are able to enroll in either an internship (up to one year) or an externship (short-term period of study).

The students enrolled in the three-year degree program during the 2009-2009 biennium provide broad international representation. The enrolled students include:

2008 first year students

- Hasan Dbouk, BDS
- Lars Bjorn Jonsson, DDS (Implant fellow)
- Juan Escalas, Mesquida, DDS (extern)
- Ruben Santana, DDS
- Yun-chi Wang, DDS
- Shuji Yoshino, DDS (extern)

2009 first year students

- Antoanela Garbacea, DDS, 1st year (Romania)
- Tarun Patel, DMD, 1st year (US)
- Thomas Maveli, DDS, 1st year (UAE)
- Juan Mesquida, DDS, 2nd year (Spain)

- Shuji Yoshino, DDS, 2nd year (Japan)
- Hasan Dbouk, BDS, 3rd year (Lebanon)
- Ruben Santana, DDS, 3rd year (Philippines)

With the largest internship-externship enrollment in the School of Dentistry, the program has attracted externs and interns from India, Iran, Italy, Japan, Korea, Portugal, Spain, and Taiwan.

2008 graduates

- Yuan-Lung Hung, DMD, MS
- Francisco Leyva Aguilar, DDS, PG'08
- Wesam Salha, DDS, PG'08

2009 graduates

- Mehrdad Fay, DDS, PG'09
- Ting-Jen Ji, DDS, MSD'09
- Taichiro Morimoto, DDS, MSD'09
- John Won, DDS, PG'09

Postdoctoral student awards

Three residents received honors for their poster presentations at the 2008 meeting of the American Academy of Implant Dentistry in San Diego, California:

- Dr. Tin-Jen Ji: First place for her presentation entitled, "The survival rate of immediately loaded implants supporting completely edentulous maxilla and mandible: A preliminary report."
- Dr. Taichiro Morimoto: First place for "Restrospective evaluation of oxidized titanium implants (TiUnite®, NobelReplace™, NobelBiocare™): Clinical results for up to 42 months."
- Dr. Seunghwan Chung: Second place for "Histomophometric analysis of Puros® Block Allograft for ridge augmentation: Case report."

Postdoctoral student awards

Four students in the Advanced Education Program in Implant Dentistry presented posters at the November 11-15, 2009 American Academy of Implant Dentistry meeting in New Orleans, LA.

- Drs. Pakawat Chatriyanuyoke (fellow) and Chun-I Lu (intern): first place for "Assessment of incisive canal"
- Dr. Ruben Santana, 3rd year graduate student: "Accuracy of CBCT (i-Cat) and 3D Model in identifying the anterior loop length of the mental nerve (A cadaver study)."

Implant Dentistry

- Dr. Antoanela Garbacea, 3rd year graduate student: third place for “A pilot study examining the incidence of maxillary sinus membrane perforation during osteotome/crestal sinus membrane elevation: A study in fresh human cadaver heads.”

These students also presented at the 2009 American Academy of Implant Dentistry annual meeting:

- Dr. Victoria Buades: “CBCT image analysis of the fate of the buccal plate after maxillary anterior implant placement.”
- Dr. Hasan Dbouk: “A technique for improving esthetics in the anterior area: Case report.”
- Dr. Ana Mesquida: “Injury to greater palatine artery during connective tissue graft harvesting procedure: A case report.”
- Dr. Juan Mesquida: “Morbidity of intraoral bone harvesting: A systematic review.”
- Dr. Cosimo Loperfido: “Report of five cases treated with titanium mesh and BMP for ridge augmentation.”
- Drs. Michael Scalia and Meisam Faeghinejad: “Guided surgery in the edentulous arch, evaluation of accuracy: A case report.”
- Drs. Chih-Yu Wu and Cosimo Loperfido: “Clinical application of Mucograft®: A case report.”
- Dr. Shuji Yoshino: “The effect of connective tissue graft on facial gingival esthetics following immediate tooth replacement using Straumann bone level implant.”

Alumni updates

These postgraduate students completed the American Academy of Implant Dentistry’s Associate Fellow certification and credentialing process during the recent biennium:

- Aladdin Al-Ardah, DDS, PG’04, MS’09
- Vu Huynh, DDS, PG’07, 08
- Joseph Y. Kan, SD’90, PG’95, MS’99
- Fancisco Leyva-Aguilar, DDS, PG’08
- Wesam Salha, DDS, PG’08
- Manuel Romo, DDS, MS, PG’07
- John Tran, DDS (fellow)
- Hirotsuka Tsuda, DDS, PG’07 (fellow)
- John Willardsen, SD’97, PG’01
- John Won, SD’05, PG’09

Dr. Nicholas Caplanis, DDS, PG’95, PG’97, MS’96, is making notable contributions to the dental profession. His credentials and activities include these alliances:

- Diplomate of the American Board of Periodontology.
- Diplomate of the American Board of Oral Implantology.
- Past president of the American Academy of Implant Dentistry, Western District, 2007.
- Secretary of the American Academy of Implant Dentistry, 2009.
- Editorial board member, Journal of Oral Implantology,
- Delegate, California Dental Association, 2004-2009 .

Adjunct faculty

Dr. Pascal Valentini, adjunct associate professor, from Paris, France, presented a lecture, “Treatment of the Maxillary Sinus,” for the LLU/AAID MaxiCourse on August 6, 2009. Accompanying Dr. Valentini were doctors and instructors from the University of Corsica, Corsica, France.

Matteo Chiapsco, MD, visiting professor from Milan, Italy, lectured to implant graduate students and demonstrated multiple advanced surgical procedures on fresh cadaver heads. He also presented “Management of Complications in Bone Grafting Surgery” at the LLU/AAID MaxiCourse on September 24, 2009.

Faculty recognition

Joseph Y. Kan, SD’90, PG’95, MS’99, professor of Implant Dentistry, a graduate of the implant dentistry program, was awarded membership in the LLUSD Society of Scholars in 2009—an appointment recognizing faculty who have contributed more than 50 refereed publications.

Publications

Kleinman A, Leyva F, Lozada J, Patel RD. Stereolithographically designed surgical template: Technique paper. Journal of Oral Implantology 2009;35(5):238-244.

Urban I, Caplanis N, Lozada J. Simultaneous vertical guided bone regeneration and guided tissue regeneration in the posterior maxilla using recombinant human platelet-derived growth factor: A case report. Journal of Oral Implantology 2009;35(5):251-256.

Oral and Maxillofacial Surgery



Alan S. Herford, DDS, MD
Director

**Advanced Education Program
Oral and Maxillofacial Surgery**

LLUSD offers two graduate programs in oral and maxillofacial surgery—a four-year program, and a six-year program leading to an MD degree. Both programs lead to a certificate with an optional Master of Science (MS) or Master of Science in Dentistry (MSD) degree.

Newsletter publication

The Oral and Maxillofacial Surgery program published its first newsletter in 2008 and a subsequent one in 2009. Issued to faculty, staff, and alumni of the program, the newsletter is also distributed to members of oral and maxillofacial surgery programs throughout the United States.

Faculty educational programs

Drs. Boyne and Herford participated in surgeon-training programs throughout the United States during the first half of 2008 in conjunction with Medtronic Corporation, explaining how to use bone morphogenetic proteins.

Faculty transitions

A remarkable career in oral and maxillofacial surgery ended on June 9, 2008, when Dr. Philip J. Boyne, 84, died. A man whose scholarly pursuits and innovations had a global impact, Dr. Boyne continued research and lecturing until months before his death. His

collaboration with Alan Herford, SD'94, MD, on a textbook chapter in *Tissue Engineering: Applications in Oral and Maxillofacial Surgery and Periodontics* (2008) and on a paper published in a 2008 issue of the *Journal of Oral and Maxillofacial Surgery* underlined his commitment to benefit patients and professionals with his skills and research as long as his energies permitted.

Faculty highlights

Dr. Herford, who serves on the American Board of Oral and Maxillofacial Surgery, was chosen to be a site visitor for the Commission on Dental Accreditation (CODA) for OMS programs. He also is a director of the board for the California Association of Oral and Maxillofacial Surgeons and in 2008 became a fellow of the American College of Surgeons.

Residents

Ten residents enrolled in the two oral and maxillofacial surgery programs during the 2008 and 2009 academic years:

Four-year program:

- Completed in 2009: Adam T. Clark, DDS (University of Colorado), Carlos Moretta, SD'01
- Completion in 2010: Lee Akin, DDS (UCSF)
- Completion in 2012: Timothy Stevens, SD'03

Six-year (OMS/MD) program:

- Completion in 2010: Yong Jun “David” Park, SD'04
- Completion in 2011: Young J. Jun, SD'07, Chan M. Park, DDS (UCLA)
- Completion in 2012: Jason Gile, DDS (University of Washington), Matthew D. Murray, SD'06
- Completion in 2014: Nicholas A. Breig, DDS (UCSF)

The department's participation in the Match process resulted in the arrival of six new residents in the oral and maxillofacial surgery on July 1, 2009:

- **Four-year program:** Kourt Chatelain, DDS (UNLV), Jennifer Henkin, DDS (Nova Southeastern), and Souren Rostomian, DDS, PG'09 (Yerevan, Armenia)
- **Six-year OMS/MD program:** Teodik Bagdassarian, DDS (UCLA), Andre Guerrero, DDS (UCFS), and Nathan Latimer, SD'08

Oral and Maxillofacial Surgery

Professional visitors

Yearly grand rounds, now named the Philip J Boyne/ Peter Geistlich Lecture, sponsored a presentation entitled, "Distraction Osteogenesis," by Stephanie Drew, DMD, of New York, on April 22, 2009.

Myron Tucker, DDS, Charlotte, NC, oral surgeon and diplomate of the American Board of Oral and Maxillofacial Surgeons, and Glen Houston, DDS, MSD, chair, department of oral and maxillofacial pathology, University of Oklahoma, lectured on orthognathic surgery and pathology on May 6, 2009.

Bone research laboratory

Under the direction of Mei Lu, DDS, PhD, MS, associate professor, research in the upgraded Philip J. Boyne Bone Research Lab has included processing specimens for research projects. Research results include Dr. Adam Clark's paper, "Traumatic eyelid defects: A review of reconstructive options," published in the January 2009 issue of the Journal of Oral and Maxillofacial Surgery; and posters presented at the California Association of Oral & Maxillofacial Surgeons meeting in Las Vegas, Nevada, April 26, 2009. Dr. Akin's poster was titled "Management and outcomes in pediatric NOE

fractures"; Dr. David Park's poster was titled: "Treatment of maxillofacial transverse and anterior/posterior deformity in one stage."

Global activity

A September 2008 mission trip to Peru arranged by Dr. Herford resulted in collaboration with a University of Michigan medical team. After flying into Lima, the team traveled north all night by bus to a remote village. In a modest, small hospital built in the 1970s, the surgical teams worked side-by-side in a room supplied with two operating tables. Dr. Herford interspersed cleft palate surgery and facial tumor removal for 30 children. "I got to operate with my sister," he says of Amber Oros, who is a student at the Michigan State School of Medicine.

Jeffrey Dean, DDS, MD, board examiner for the American Board of Oral and Maxillofacial Surgeons, led a mission trip to Lima, Peru, in March 2009. The dental care focused on treating congenital anomalies such as cleft lip-palate, herni-facial microsomia, and other reconstructive surgeries. Dr. Lee Akin also participated.

Publications 2008

Herford AS, Boyne PJ. Clinical applications of rhBMP-2. In: Lynch SE, Marx RE, Nevins M, Wisner-Lynch LA, eds. Tissue engineering: Application in oral and maxillofacial surgery and periodontics, 2nd ed. Hanover Park, IL, Quintessence Publishing, 2008;229-38.

Herford AS, Boyne PJ. Reconstruction of mandibular continuity defects with bone morphogenetic protein-2 (rhBMP-2). *J Oral Maxillofac Surg* 2008;66(4):616-24.

Herford AS, Dean JS. Recombinant human morphogenetic protein-2 (rhBMP-2) use of rhBMP-2 in maxillofacial surgery. *Selected Readings*, 2008;16(6).

Publications 2009

Herford AS. rhBMP-2 as an option for reconstructing mandibular continuity defects. *J Oral Maxillofac Surg* 2009;67(12):2679-2684.

Herford AS. Soft tissue injuries. In: Fonseca RJ, Marciani RD, Turvey TA, eds. *Oral and maxillofacial surgery*, 2nd ed, Volume II. St. Louis, MO, SaundersElsevier, 2009;17:283-300.

Herford AS. Traumatic eyelid defects: A review of reconstructive options. *J Oral Maxillofac Surg*, 2009;67:3-9.



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Orthodontics and Dentofacial Orthopedics



Leroy Leggitt, DDS, MS, PhD
Director

**Advanced Education Program in Orthodontics
and Dentofacial Orthopedics**

At LLUSD, dentistry's first specialty is a 27-month program leading to the award of a Master of Science (MS) degree or a professional certificate. The School's 12 residents are among the 800 individuals in the United States currently in training for the specialty.

Graduate program and department relocate

In 2009, the entire department relocated to a newly designed and renovated space at 159 Hospitality Lane in San Bernardino, CA. The graduate program, faculty, students, and staff now occupy the 9,500 square feet of the entire second and third floors. These new facilities include distance learning capabilities, classrooms, patient consultation rooms, imaging areas, laboratory and sterilization space, and new audiovisual equipment with multiple TV displays for patients, students, and staff to facilitate education and communication.

Graduate student research projects (2008):

Michelle F. Couto, "Recognizing a dysfunctional swallowing pattern using surface electromyography (sEMG)." Mentor: James Farrage.

Elena S. Iacob, "Buccal bone changes following rapid maxillary expansion (RME), long-term results." Mentor: Joseph Caruso.

Jason M. Loop, "Comparison of mandibular alveolar bone with facial type using CBCT." Mentor: Joseph Caruso.

J. Schneider, "Assessing the relationship of bone quality using CBCT." Mentor: Joseph Caruso.

Wade A. Williams, "Cephalometric analysis using magnetic resonance imaging." Mentor: Leroy Leggitt.

Anne J. Yoon, "Characterization of rhBMP-2 induced heterotropic bone subjected to distraction osteogenesis." Mentor: Philip Boyne.

Graduate student research projects (2009):

Christian J. Hoybjerg, "Influence of stainless steel orthodontic brackets on magnetic resonance imaging." Mentor: Leroy Leggitt

David C. Lee, "Effects of functional appliances on the TMJ and mandibular length of skeletal class II patients: A cone beam computed tomography study." Mentor: K Rungcharassaeng.

Melissa K. Lee, "Effects of functional appliances on pharyngeal airway dimensions: A cone beam computed tomography study." Mentor: Joseph Caruso.

Jodi Parker, "Using cone beam computed tomography to identify a prediction model for obstructive sleep apnea." Mentor: Joseph Caruso.

Michael S. Pollack, "Observer reliability of cephalometric landmark identification on 3-D MR images." Mentor: Leroy Leggitt.

Tyler S. Pritchard, "The influence of work of fracture on six orthodontic bonding systems." Mentor: Craig Andreiko.

2008 students (incoming or first year)

- Jeffrey Hwang, DDS,
- Joanne Kim, DDS,
- Ryan Pulfer, DDS,
- Ty Roylance, DDS,
- Matthew Sanders, SD'07,

2009 students (incoming or first year)

- Melina Adamian, DDS,
- Vanessa Chun, DDS,
- Warren Libby, SD'05,
- Gregory Olson, SD'96, PG'98,
- Brent Tingey, DDS,
- Todd Wesslen, SD'09,

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Orthodontics and Dentofacial Orthopedics

Faculty mission service

2008

Dr. Leroy Leggitt—Mara West Kenya. LLUSD student mission trip.

Dr. Leroy Leggitt—Puerto Ayora, Galapagos (Equador). LLUSD student mission trip.

Faculty honors

Dr. Leggitt was inducted into the supreme chapter of Omicron Kappa Upsilon (OKU) in 2009. OKU is dentistry's honor society.

Publications:

Choi KS, Kan JY, Boyne PJ, Goodacre CJ, Lozada JL, Rungcharassaeng K. The effects of resorbable membrane on human maxillary sinus graft: A pilot study. *Int J Oral Maxillofac Implants*. 2009;24(1):73-80.

Elison M, Leggitt, VL, Thomson M, Oyoyo U, Wycliffe ND, 2008. Influence of common orthodontic appliances on the diagnostic quality of cranial magnetic resonance images. *American Journal of Orthodontics and Dentofacial Orthopedics*, 134(4), 563-572.

Garrett BJ, Caruso JM, Rungcharassaeng K, Farrage JR, Kim JS, Taylor GD. Skeletal effects to the maxilla after rapid maxillary expansion assessed with cone-beam computed tomography. *American Journal of Orthodontics and Dentofacial Orthopedics*, 2008;134(1):8-9.

Kan JY, Rungcharassaeng K, Morimoto T, Lozada J. Facial gingival tissue stability after connective tissue graft with single immediate tooth replacement in the esthetic zone: Consecutive case report. *J Oral Maxillofac Surg*. 2009;67(11 Suppl):40-8.

Kan JY, Rungcharassaeng K, Fillman M, Caruso J. Tissue architecture modification for anterior implant esthetics: An interdisciplinary approach. *Eur J Esthet Dent*. 2009;4(2):104-17.

Nahoum HI. Moment to force ratio. *American Journal of Orthodontics and Dentofacial Orthopedics*. 2008;134(2):176-177.

Oyama K, Kan JY, Kleinman AS, Rungcharassaeng K, Lozada JL, Goodacre CJ. Misfit of implant fixed complete denture following computer-guided surgery. *Int J Oral Maxillofac Implants*. 2009;24(1):124-30.

Oyama K, Kan JY, Rungcharassaeng K. Immediate provisionalization of a maxillary lateral incisor with a dental mini-implant: Surgical and prosthetic rationale. *Pract Proced Aesthet Dent*. 2009;21(4):249-256.

Roe P, Kan JY, Rungcharassaeng K. Fabrication of a provisional restoration using a translucent matrix and composite resin for immediate tooth replacement. *Pract Proced Aesthet Dent*. 2009;21(4):245-247.

Rungcharassaeng K, Kan JY, Caruso JM, Herford A. Temporary anchorage and segmental distraction osteogenesis devices: Surgical and orthodontic rationales. *Pract Proced Aesthet Dent*. 2009;21(1):43-51.



B I E N N I A L R E P O R T 2 0 0 8 & 2 0 0 9

Pediatric Dentistry



Jung-Wei Chen, DDS, MS, PhD
Director



J. Todd Milledge, DDS
Associate Director

Advanced Education Program in Pediatric Dentistry

The Advance Education Program in Pediatric Dentistry is a 24-month program designed to prepare residents for a practice limited to the care of children and adolescents. The program leads to a professional certificate with the option to earn either a Master of Science (MS) or Master of Science in Dentistry (MSD) degree.

Newsletter

The Advanced Education Program in Pediatric Dentistry began publishing a program newsletter in 2009 to provide an update on department activities and inform alumni.

Faculty transitions

Jung-Wei (Anna) Chen, DDS, MS, PhD, accepted the position of director of the Advanced Education Program in Pediatric Dentistry in June 2009. Since her 2008 arrival on campus, she has been active in guiding residents pursuing research projects and submitting their papers or theses for publication. She is overseeing revision of the resident curriculum so that it prepares residents for skilled practice and for high performance on the American Board of Pediatric Dentistry.

F. Robert (Bob) Traficante, DDS, associate professor, spent two years as program director of the Advanced Education Program in Pediatric Dentistry, successfully guiding the department through a CODA site visit before returning in June 2009 to Washington State. Dr.

Traficante purchased an existing pediatric practice from Loma Linda alumnus Greg Olson, SD '96, PG'98, who was returning to LLUSD to pursue advanced training in orthodontics.

Richard Grabowsky, DDS, concluded five years of service in the Department of Pediatric Dentistry in September 2009 and relocated near family members in Battle Ground, Washington. He was notably active in overseeing student participants in service learning aboard the mobile dental van and on student mission trips. He also provided leadership in the local "Give Kids a Smile" program promoted by the Tri-County Dental Society.

Visiting scholar

Kuei-Chun (Owen) Liah, DDS, of Taiwan arrived at the Department of Pediatric Dentistry in August 2009 and spent six months as a visiting scholar before returning to Taipei Medical University, where he serves on the faculty.

Dental clinic volunteer

LLUSD patient coordinator Carol Brodeur, wife of David Brodeur, SD'71, MPA, retired in 2009, after donating over 5,000 hours and resources serving the patients, students, and staff of the Hutto-Patterson Pediatric Dental Clinic. The department honored Mrs. Brodeur at a farewell dinner in June 2009 at the Olive Garden restaurant.

Pediatric Dentistry

Residents become alumni

June 2009 marked the 15th year of students completing the department’s advanced education program. Alumni of the pediatric dentistry program now number 49. Pediatric residents gain skills in working with uncooperative children, special needs children, and the very young child. They are on call in the hospital emergency department for pediatric patients. Their experience includes learning how to work with other healthcare providers in a hospital and dealing with children having all types of medical conditions. The residents regularly treat medically compromised children in a hospital operating room.

Graduating residents

Three residents completed their research and received their MSD degrees on June 30, 2009:

- Daniel Morgan, SD’07, PG’09. Research project: “Pediatric oral health practices by American Medical Association Members: A national survey.” Mentors: Drs. F. R. Traficante, J-W. Chen, and R. L. Grabowsky.
- Stuart D. Segura, SD’07, PG’09. Research project: “The relationship between knowledge of caries transmissibility and caries rate in healthy children.” Mentor: Dr. Jung-Wei Chen.
- Jennifer Moseley-Stevens, SD’03, PG’09. Research project: “A comparison of fluoride levels in ready-to-eat infant foods.” Mentor: Dr. Jung-Wei Chen.

Current residents

Currently the Department of Pediatric Dentistry accepts four residents per year into the Advanced Education Program in Pediatric Dentistry.

Second-year residents:

- Sam Alzayat, SD’04. Research topic: “The effectiveness of submucosal meperidine.” Mentor: Dr. Jung-Wei Chen.
- Bryan Fletcher, SD’08. Research topic: “The effects of partial pre-curing a resin modified glass-ionomer restorative material on microleakage.” Mentor: Dr. Jung-Wei Chen.
- Raelene McDowall, SD’07. Research topic: “Perceptions of children before and after orthodontic treatment.” Mentor: Dr. Jung-Wei Chen.
- Samah Omar, IDP’07. Research topic: “The fluoride level in infant fruit juices.” Mentor: Dr. Jung-Wei Chen.

First-year residents:

- Noha Abdel-Salam, IDP’08
- Monserrat Jorden, Tufts’02
- Meghanne Kruizenga, SD’07
- Laura McCormack, IDP’09

Colleagues in training fund

The Advanced Education Program in Pediatric Dentistry has established a new fund, “Colleagues in Training Fund.” Donations from alumni are funding opportunities for residents to travel to professional meetings, attend an American Board of Pediatric Dentistry review course, fund their research, or work on a new piece of equipment purchased with money from this fund.

Clinic activity

High quality service in the Hutto-Patterson Pediatric Dental Clinic is enhanced by eight dental assistants—John Ayon, Gracie Cuevas, Kathy Dillon, Toni Greenhouse, Irma Lozada, Dorian Montecinos, Veronica Perez, Ebony Reece, and Patty Stokes—by the clinic supervisor, Lilian Andrade, and by the patient coordinators—Magda Lavergne, Brenda Montesinos, and Karla Ellsworth.

Procedure innovation brought to LLUSD

Dr. Chen has introduced to LLUSD a new procedure for improving cleft palate treatment (Presurgical Naso-Alveolar Molding Appliance), developed by Drs. Barry Grayson and Court Cutting at New York University Medical Center. Instead of the customary (up to 10 plus) surgeries required to correct cleft palates, the Presurgical Nasoalveolar molding (PNAM) appliance she uses makes corrections that will require fewer surgeries in the future and better surgical results.

In what Dr. Chen calls a parent-surgeon-dentist partnership, frequent application of the PNAM diminishes the cleft and lifts the nose, reducing the size of the cleft gap before surgery. The PNAM team welcomes—and indeed befriends—babies at a mere 2 to 3 months old to begin the molding process. The mother of an infant in Dr. Chen’s care says, “The PNAM team is my son’s best hope for the future. He is in competent hands.”

Faculty publications

Curtin JA, Lu H, Peterson JE, Milledge JT. In vitro staining of resin composites by liquids ingested by children. *Pediatric Dentistry* 2008;30(4):317-322.

Pediatric Dentistry

Katheria B, Kau CH, Tate R, English J, Bouquot J, **Chen J-W**. Effectiveness of impacted and supernumerary tooth diagnosis from traditional radiograph versus cone beam computer tomography. *J Ped Dent* 2009 (in press).

Levine AE, Bebermeyer RD, **Chen J-W**, Davis D, Harty C. Development of a dental information technology course: An interdisciplinary approach. *J. Dent Educ.* 2008; 72(9): 1067-1076.

Milledge JT. Endodontic therapy for primary teeth. In *Ingle's Endodontics VI*, Ingle, Bakland, Baumgartner. BC Decker, Inc. 2008.

Mosley-Stevens J, **Chen J-W**, **Traficante FR**, **Grabowsky R**. Comparison of fluoride concentrations in commonly consumed ready-to-eat infant foods. *J Ped Dent* 2009 (in press).

Reznik DS, Jeske AH, **Chen J-W**, English J. Comparative efficacy of two topical anesthetics for the placement of orthodontic temporary anchorage devices. *Anesthesia Progress* 2009; 56(3): 81-85.

Siew C, Chou H-N, **Chen J-W**. Infant formulas and the potential risk for enamel fluorosis. *J Ame Dent Asso* 2009;140(10):1228-1236.

Leslie Ross, DH'09, dons her new white coat during the Student Dedication program.



Dental students Nicholas Marongiu, class of 2010, and Kristen Sylvers, class of 2011, attend to Clinic With a Heart patient.

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Periodontics



Jeffrey M. Henkin, DDS, MS
Director

**Advanced Education Program
Periodontics**

The Advanced Education Program in Periodontics emphasizes high-level technical procedures: esthetic and prosthetic-related mucogingival surgery, resective and regenerative surgical procedures, surgical placement of root-form implants, and preparatory augmentation and repairs. Students pursue didactic, clinical, and research components in the program that lead to a professional certificate with the option to either a Master of Science (MS) or a Master of Science in Dentistry (MSD) degree.

20th Annual Inter-City Periodontics Research Forum

Periodontal students at LLUSD hosted students from USC, UCLA, and the Greater Los Angeles Veterans Health Care Center at the San Bernardino Hilton in May 2009 for the 20th Annual Inter-City Periodontics Research Forum. A lecture format developed by the group made provision for graduate students from each of the schools to present individual research projects.

Research awards

First-place \$1,000 awards in three different categories went to three LLUSD postdoctoral periodontal students, who submitted projects to the California Society of Periodontists Research Competition. "I believe that this is the first time that Loma Linda University School of Dentistry graduate students captured first place in all of the categories that they entered at the CSP meeting," said Dr. Henkin.

- Roger Anderson, SD'05, MS'09, entered his project in the non-surgical therapy, diagnostics and clinical etiologic research category: "Factors influencing contrast resolution of cone beam CT using the CB MercuRay." Drs. Jeffrey Henkin and Bernard Gantes, mentors. Dr. Anderson received an MS degree at the June 2009 commencement.
- Chun-Xiao Sun, DDS, PhD, MSD'09, associate professor, submitted a project in the basic research category: "The expression changes of inflammatory mediators, adenosine receptors, in chronic human periodontitis: A preliminary study." In June 2009 Dr. Sun received an MSD degree based on this research. Dr. Jeffrey Henkin, mentor.
- Israel Puterman, DMD, MSD'08, pursued a study of the periodontal regeneration category: "The effect of a palatal stent on post-operative sequelae following subepithelial connective tissue grafting on early healing and patient morbidity." Dr. Craig Ririe, mentor. Dr. Puterman received an MSD degree in periodontics at the June 2008 graduation.
- Erik Sahl, SD'06, assistant professor, restorative dentistry, received a \$250 scholarship award from the California Society of Periodontists for placing second in California's Outstanding Periodontal Resident competition. He received \$500 in May 2009 for placing third in the annual Robert Merrin Scholarship competition. He also received recognition as a runner up for the American Academy of Periodontology scholarship.

Graduate students

Third-year students who graduated in 2008

- Patrick Huston, DDS, MSD'09
- Mark Kunihiro, SD'04, PG'08
- Israel Puterman, DDS, MSD'09

Third-year student who graduated in 2009

- Roger Anderson, SD'05, MS'09
- Chun Xiao Sun, DDS, PhD, MSD'09

Periodontics

Graduate student roster for 2008

- Sebastiano Andreana, DDS, MS
- Myung Soo Choi, DDS
- Pedram Fakheri, DDS
- Elham Javadi, DDS
- Erik Sahl, SD'06
- Wesam Salha, DMD, PG'08
- Elisa Sin, DDS
- Michael Wasemiller, SD'05

Entering students for 2009 (all LLUSD alumni)

- Beatrice Criveanu, SD'09
- Jennifer Clark, SD'08
- Graig Erickson, SD'09

Accreditation renewed

The Advanced Education Program in Periodontics received full accreditation from the Commission on Dental Accreditation of the American Dental Association following a February 2009 site visit. Additionally, the program received approval to increase its enrollment to 10 students.

Facility upgrades

In 2008 work was completed to create an operatory designed for implant surgeries exclusively for the graduate periodontics program.

To improve the educational experience of graduate students, the program completed a major renovation of the graduate student conference room and library, and major enhancements to the student offices included new desks and high-speed internet access for each student. Wireless internet service in the Taylor Street conference room allows graduate students improved access to the literature in real time during their courses.

A new operatory unit and two operating lights, as well as new surgical tables and chairs, were 2009 additions to the operating suite area.

The program cooperated with the Advanced Education Program in Implant Dentistry to purchase a laser Doppler perfusion apparatus that has permitted performance of blood flow research and its effect on the wound healing process. Third-year graduate student, Dr. Israel Puterman, conducted research in this area for his MSD degree.

Curriculum additions

Dr. Dennis Smith introduced an occlusion lecture for graduate periodontics students in the summer quarter of 2009.

Interdisciplinary initiatives

Dr. Henkin revised the moderate sedation course that he coordinates for students in periodontics, endodontics, pediatric dentistry, and prosthodontics. Successful completion of this course enables students to fulfill the didactic requirements for a California moderate sedation permit, after completing the required number of clinical cases.

Formal approval of a dual-major program in periodontics-prosthodontics reflects cooperative efforts to arrange improved interdisciplinary conferences and consultations, as well as demonstrates interdisciplinary cooperation.

Faculty publications

Andreana S, Beneduce C, Buhite R. Implant Success Rate in a Dental School Setting: Retrospective Study. *New York State Dental Journal* Aug/Sept 2008.

Hoffmann O, **Angelov N**, Gallez F, Jung RE, Weber FE. The zirconia implant-bone interface: a preliminary histologic evaluation in rabbits. *Int J Oral Maxillofac Implants*. 2008 Jul-Aug;23(4):691-5.

Intini G, **Andreana S**, Buhite RJ, Bobek LA. A comparative analysis of bone regeneration induced by human demineralized freeze-dried bone, enamel matrix derivative, and recombinant BMP2 in rat calvaria critical size bone defects. *J Periodontol*. 2008 Jul;79 (7):1217-24.

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Prosthodontics



Mathew T. Kattadiyil, DDS, MDS, MS
Director

**Advanced Education Program
Prosthodontics**

Prosthodontics is the dental specialty that deals with rehabilitating patients in a comprehensive manner: restoring function, comfort, appearance, and health. The program is 36 months in length and accepts four students per year.

Clinic renovation completed

In 2009 the graduate prosthodontic clinic underwent a major renovation during which the operatories, administrative area, front desk, and patient waiting room were completely remodeled.

A surgical suite was created that included a large TV monitor to display digital radiographs, photographs, and surgeries in progress. This suite is also available for routine surgical procedures as well as surgical implant placements.

Faculty transitions

Formerly the interim director of the Advanced Education Program, Mathew Kattadiyil, BDS, MDS, MS, FACP, was appointed program director in June 2008.

Two part-time faculty members have joined the prosthodontics program:

- ✦ Jin Cha, DDS, SD'02, PG'05, a board certified prosthodontist, began volunteering his services to the program in 2009.

- ✦ Jui-Min Su, DDS, MS, who studied dentistry at the University of Texas, Health Science Center, Houston (2001), and completed a fellowship in maxillofacial prosthetics and dental oncology at the University of Texas Anderson Cancer Center, joined the program faculty on a part-time basis in September 2009.
- ✦ A dental hygienist, Judy Paw, DH'81, MA, also joined the prosthodontics staff in 2009.

Faculty achievements/awards

- ✦ Amir Khatami, DDS, PG'04, assistant professor, restorative dentistry, became a fellow of the American Academy of Maxillofacial Prosthodontics in November 2009. Appointment as a fellow in the Academy requires an assessment after three years as an associate fellow with a demonstrated interest in maxillofacial prosthetics through essays, articles, clinics, and active participation in professional meetings.
- ✦ Nadim Baba, DMD, MSD, associate professor, restorative dentistry, received the American Academy of Fixed Prosthodontics 2009 Claude R. Baker Teaching Award.
- ✦ Edwin Shryock, SD'62, keynote speaker at the annual prosthodontics graduation dinner held on May 20, 2009, received the Ken Wical Award for Excellence in Prosthodontics. Naming significant mentors in his pursuit of dentistry, Dr. Shryock cited Drs. Ken Wical and Lloyd Baum, the late Judson Klooster, dean (1971-1994), and the late Robert Lee, SD'59.
- ✦ Dr. Shryock's final words to the graduates represented his credo: "You will never go wrong if you walk in the footprints of the Master craftsman and Creator of all things, who said, 'Whoever wants to become great among you, let him be your servant.'"

2008 graduates

- ✦ Bashar S. Ayyoub, DDS
- ✦ Setrag Dermendjian, BDS
- ✦ Vahik Meserkhani, DDS, MSD'10
- ✦ Rishi Dinesh Patel, BDS, MS'09

Prosthodontic graduate students' research projects

The following students completed research projects and were awarded the Master of Science (MS) Degree in 2009:

- ✦ Saeda Basta, DDS, PG'04. Research: "Effect of gutta percha on the retention of a post using different cements." Mentors: Drs. M Kattadiyil, W Campagni, R Handysides, J Kim, C Munoz, J Torres.

Prosthodontics

- Dr. Manuel Guevara, DDS, PG'04. Research: "Effect of auxiliary preparation elements on resistance of crowns." Mentors: Drs. M Kattadiyil, W Campagni, C Goodacre, A Kleinman, J Torres.
- Maxwell Nazari, PG'05. Research: "Effect of auxiliary preparation elements on the resistance of metal crowns." Mentors: Drs. M. Kattadiyil, C Goodacre, J Kim.
- Rishi Patel, DDS, PG'08. Research: "An in-vitro investigation of the physical properties of Alginate alternatives." Mentors: Drs. M. Kattadiyil, C Goodacre, J Kim, M. Winer.
- Philip Roe, PG'06. Research: "Immediate loading of unsplinted implants for overdentures." Mentors: Drs. J Kan, C Goodacre, M Kattadiyil, A Kleinman, J Lozada, K Rungcharassaeng.

2008 students (incoming or first year)

- Mehrdad Fay, DDS
- Wendy Gregorius, DDS
- John Rezai, DDS

2009 students (incoming or first year)

- Rami Jekki, DDS
- Doris Kore, DDS
- Catherine Kwon, SD'09
- Alfredo Paredes, DDS

Faculty publications 2008

Khatami AH, Campagni WV, Peregrina A, Johnston WM, Rosenstiel SF. Linguoaxial wall and cervicoincisal dimension of anterior crown preparation: Effect on retention. *Gen Dent* 2008;56(6):532-7.

Kleinman A, Avendano S, Leyva F. Aesthetic treatment option for completely edentulous patients using CAD/CAM technology. *Pract Proced Aesthet Dent* 2008;20(3):185-192.

Lozada JL, Kleinman A. Osseointegrated dental implants. In: Ingle JI, Bakland LK, Baumgartner JC, eds. *Ingle's Endodontics*, 6th ed. Hamilton, Ontario: BC Decker, 2008:1295-1309.

Faculty publications 2009

Baba NZ, Golden G, Goodacre CJ. Nonmetallic prefabricated dowels: A review of compositions, properties, laboratory, and clinical test reviews. *J Prosthodont* 2009;18:527-536.

Choi KS, Kan JY, Boyne PJ, Goodacre CJ, Lozada JL, Rungcharassaeng K. The effects of resorbable membrane on human maxillary sinus graft: A pilot study. *Int J Oral Maxillofac Implants.* 2009;24(1):73-80.

Daher T, Goodacre CJ, Morgano SM. Implant treatment record form. *J Prosthodont* 2009;18:366-368.

Kan JY, Rungcharassaeng K, Morimoto T, Lozada J. Facial gingival tissue stability after connective tissue graft with single immediate tooth replacement in the esthetic zone: Consecutive case report. *J Oral Maxillofac Surg.* 2009;67(11 Suppl):40-8.

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Kleinman A, Leyva F, Lozada J, Patel RD. Stereolithographically designed surgical template: Technique paper. *Journal of Oral Implantology* 2009;35(5):238-244.

Kotaro O, Kan JYK, Kleinman AS, Rungcharassaeng K, Lozada JL, Goodacre CJ. Misfit of implant fixed complete denture following computer-guided surgery. *Int J Oral Maxillofac Implants* 2009;24:124-130.

Kyung-Soo C, Kan JYK, Boyne PJ, Goodacre CJ, Lozada JL, Rungcharassaeng K. The effects of resorbable membrane on human maxillary sinus graft: A pilot study. *Int J Oral Maxillofac Implants* 2009;24:73-80.

Messer HH, Goodacre CJ. Preparation for restoration. In: **Torabinejad M, Walton RE,** eds. *Endodontics principles and practice*, 4th ed. St Louis: Saunders Elsevier, 2009:287-297.

Naylor WP. Introduction to metal ceramic technology, 2nd ed. Hanover Park, IL: Quintessence Publishing, 2009.

Nick D, Clark M, Miler J, Ordelleide C, Goodacre CJ, Kim J. The ability of dental students and faculty to estimate the total occlusal convergence of prepared teeth. *J Prosthet Dent* 2009;101(1):7-12.

Oyama K, Kan JY, Kleinman AS, Rungcharassaeng K, Lozada JL, Goodacre CJ. Misfit of implant fixed complete denture following computer-guided surgery. *Int J Oral Maxillofac Implants.* 2009;24(1):124-30.

Oyama K, Kan JY, Rungcharassaeng K. Immediate provisionalization of a maxillary lateral incisor with a dental mini-implant: Surgical and prosthetic rationale. *Pract Proced Aesthet Dent.* 2009;21(4):249-256.

Roe P, Kan JY, Rungcharassaeng K. Fabrication of a provisional restoration using a translucent matrix and composite resin for immediate tooth replacement. *Pract Proced Aesthet Dent.* 2009;21(4):245-247.

Rungcharassaeng K, Kan JY, Caruso JM, Herford A. Temporary anchorage and segmental distraction osteogenesis devices: Surgical and orthodontic rationales. *Pract Proced Aesthet Dent.* 2009;21(1):43-51.



Rachel Terwillegar, CFRE, CSPG
Director, Development



Maynard Lowry, PhD
Director, Gift Planning and Special Gifts

Development

Philanthropic support for the School topped the \$3 million mark in 2008 for the third year in a row. Gifts for calendar years 2008-09 totaled more than \$5.8 million dollars. Special gifts by alumni, faculty, staff, foundations, and corporations are significant components of the total amount raised.

Endowment funds

The first endowment fund for the School of Dentistry was established during the 1989-90 academic year. As of June 30, 2009, School of Dentistry endowment/foundation accounts have a value of more than \$10 million dollars.

A new scholarship endowment fund was established in 2008 with \$50,000 in memory of David Wayne Nelson, SD'71.

Alumni support

More than \$400,000 was raised by the Alumni Association Century Club for various projects including service learning scholarships, the Bibles and white coats presented at the student dedication service, research awards, and other Alumni Association board-approved projects.

Six classes of alumni raised more than \$10,000 each during the biennium. The class of 1963 raised \$30,650 and the class of 1959 raised \$50,000 in honor of their 50th year.

The classes of 2008 and 2009 each established an endowment fund, putting the balance of their proceeds

from fundraising activities at the conclusion of their educational career into their accounts. Both classes have close to \$20,000 that will continue to grow until they have a project they choose to support at a significant honor year.

Endowed professorships

A major achievement of the School of Dentistry over the past few years has been funding two professorships. The first professorship was started by Dr. Ronald E. Buell with a significant personal investment over 20 years ago. After his death, colleagues continued working toward the goal of establishing the Ronald E. Buell Professorship in Endodontics.

At the 2008 commencement ceremonies, School of Dentistry dean, Charles J. Goodacre, DDS, MSD, announced the appointment of Dr. Leif K. Bakland as the first Ronald E. Buell Professor of Endodontics.

The second professorship was started by faculty member, Dr. Philip J. Boyne, who made a significant investment, and together with a friend, Dr. Peter Geistlich, a life-long resident of Zurich, Switzerland, the Boyne-Geistlich Professorship in Oral and Maxillofacial Surgery came into existence.

The professorship is intended to support the efforts of the appointee to explore new avenues of treatment, promote the teaching of oral and maxillofacial surgery,

and advanced dentistry through innovation in patient care. This professorship recognizes distinguished faculty in oral and maxillofacial surgery, and will help retain talented surgeons committed to advancing the mission of the University.

The selection of Dr. Alan S. Herford, as the inaugural Philip Boyne - Peter Geistlich Professor of Oral and Maxillofacial Surgery was announced at the graduation ceremonies on May 25, 2008.

Planned giving

Planned gifts for 2008-2009 totaled more than \$263,000, and gifts-in-kind received totaled more than \$307,000. A year ago the School of Dentistry began sending Gift Legacy educational materials by e-mail to alumni and friends of the School. In addition, special brochures, such as *Planning for the Future: Preparing Your Will or Trust*, and *Planning for the Future: What Your Family Needs to Know*, are now available.

Department projects

Support for departmental projects include the following:

Graduate Prosthodontics	\$ 63,873
International Dentist Program	\$ 31,182
Implant Center, including development of a CD-Rom	\$ 231,696
Orthodontics	\$ 110,321
Oral and Maxillofacial Surgery	\$ 87,127
Pediatric Dental Services for Needy Children	\$ 21,050
Service Learning	\$ 49,695

Source of funds

A total of 1,428 donors contributed to School of Dentistry funds. What follows is a breakdown of the source of those funds:

- 24% Alumni
- 6 % Individuals
- 53% Businesses and corporations
- 6% Organizations
- 9% Foundations
- 2% Faculty (who are not alumni)

Corporate sponsors include 3M Unitek Corporation, American Dental Partners, Dentsply/GAC International, Geistlich Pharma AG, G. Hartzell & Son, Hewlett-Packard Company, Johnson and Johnson Health, LLU

Special Care Dentistry, Loma Linda University Dental Group, Inc., Nobel Biocare, Inc., Pacific Dental Services, Inc., The Procter & Gamble Company.

Foundation support was received from the AAID Research Foundation, the Arnold and Mabel Beckman Foundation, the California Association of Oral and Maxillofacial Surgery, the California Dental Association Foundation, the California Dental Hygienists' Association, The California Endowment, the Fraser Hope Foundation, the National Association of Seventh-day Adventist Dentists, the Palo Alto Center for Pulmonary Disease Prevention, The San Diego Foundation, the Significance Foundation, the Unihealth Foundation, Versacare, Inc., World Medics, Inc., and Zimmer.

Gifts-in-kind

Gifts in the form of product and equipment continue to be a major component of the philanthropy program. Colgate, Nobel Biocare, Procter and Gamble, Johnson and Johnson Healthcare Products, Dr. Ramesh Shori, and David Pfeifer were the major contributors of gifts-in-kind.

Gold 4 Good

In a project using proceeds from metal scrap to provide care for underserved pediatric patients, over \$17,000 has been reclaimed. Containers for the gold, flyers, and other printed materials have been prepared so that dental professionals can collect the scrap from their patients. Promotional materials are available from the Office of Development.

The M. Webster Prince Society

The M. Webster Prince Society was formed to recognize those who share Dr. Prince's vision and are committed to sustaining the School of Dentistry in its mission of education, service, and advancement of the dental profession.

Membership is voluntary. There are no age limits, nor preferred types or size of gift, membership is reserved for those who have included the School of Dentistry in their will or trust, or who have created another deferred gift plan.

Dean's Circle

More than 20 years ago Dean Judson Klooster announced the formation of a new leadership organization to encourage annual giving. The original group of 44 has grown to 248 loyal alumni, friends, faculty, and staff whose generosity drives the School of Dentistry to build on its status as one of the top dental schools in the country. Each year members of the Dean's Circle meet for a dinner at the Summit House Restaurant in Fullerton, California. The largest number of DDS alumni who are members in the Dean's Circle come from the class of 1974, with the classes of 1969, 1970, 1988, and the dean's own class of 1971, and the class of 1972 right behind them. Arlene Klooster, widow of the founder, as well as



Dean Goodacre visits with Dr. Lowry and Ms. Terwillegar.

former dean Charles T. Smith are honorary members. Individuals making a leadership gift of \$1,500 or more during a calendar year are invited to become members of the Dean's Circle. Gifts to any School of Dentistry fund qualify for membership. In addition to gifts of cash, gifts may be made on a regular basis, through payroll deduction or with a major credit card.

Dental hygiene

Celebrating 50 Years of Dental Hygiene Service, Kris Wilkins, DH'80, department chair, and Joni Stephens, DH'69, former chair, invited alumni to take a quiet moment to relax and enjoy a complimentary "spot of tea" at their convenience while they celebrated the dental hygiene profession and the education received at Loma

Linda University. Sent as a formal invitation, with a package of herbal tea, the invitation generated positive response for the annual fund campaign.

Alumni provided 83 percent of the dental hygiene gifts; 7 percent came from non-alumni, and 13 percent from corporations and organizations. Scholarships awarded in 2009 alone totaled more than \$24,000, of which \$13,000 came from the dental hygiene class of 1969.

Thirteen per cent of all alumni participate in the annual fund, while 60% of them give at an Ivory Society level of \$100 or more each year.

Five Dental Hygiene alumni are members of the Dean's Circle.

Staff activity

Director of development, Rachel Terwillegar, CFRE, CSPG, and director of gift planning and special gifts, Maynard Lowry, PhD, continue to maintain trust services certification by the Seventh-day Adventist Church, which requires 20 hours of annual continuing education.

Dr. Lowry visits with alumni throughout the United States and abroad. With Dean Charles J. Goodacre, alumni receptions were held in Northern California, Arizona, Nevada, New England, and Texas.

Development assistant, Mary Donahue, received her master's of business administration degree in June 2009 from University of Redlands.

For more information or materials, please contact the

Office of Development
 School of Dentistry
 11092 Anderson Street
 Loma Linda, California 92350

phone: (909) 558-4754
 fax: (909) 558-0473
 email: sdgiving@llu.edu



Doyle Nick, DDS
Co-Director



Quintes Nicola, DDS
Co-Director

International Dental Affairs

LLUSD faculty made history at the home of the World Health Organization (WHO) in Geneva, Switzerland, July 6-11, 2009. WHO officials, increasingly aware that 40 percent of the medical care in developing countries is provided by faith-based organizations, engaged for the first time in discussions designed to collaborate with faith-based organizations. They elected to stage their first interaction with members of the General Conference Department of Health Ministries.

Approximately 700 medically affiliated church employees met for 14 hours with WHO employees in joint meetings. During the continuing education presentations (over 250 presentations by 140 international specialists), lecturers from the around the world, including five LLUSD faculty, reviewed a broad spectrum of topics: oral infection, cariology, minimally invasive dentistry, systemic disease and its effect on oral health, endodontics, African dental disease challenges, HIV/AIDS, and reports on each Seventh-day Adventist dental school.

Lecturers included Stanton S. Appleton, SD'72, MPH, MSD, MAGD, clinical professor, Oral Diagnosis, Radiology, and Pathology; Robert Handysides, SD'93, PG'01, chair, Department of Endodontics; Doyle Nick, SD'78, PG'95, associate professor, Restorative Dentistry; Quintes Nicola, SD'69, assistant professor, Dental Education Services; Brian B. Novy, SD'06, assistant professor, Restorative Dentistry; and Thomas

Rogers, SD'83, MPH, MA, director, Faculty Leadership & Development.

Dentists invited to participate from other schools of dentistry included Hector Hernandez, DDS, and Zeno Charles Marcel, MD, of Montemorelos University, Marissa Virgines, DDM, MPH, dean, Adventist University of Philippines, College of Dentistry, and Ezekiel Midamba, DMD, DDPH, MSD, MS, of Norway.

Recordings of the conference are available at www.HealthMinistries.com.

Alumni recognition for international service

The directors of International Dental Affairs estimate that more than 700 dentists are eligible to have their names appear on pavers circling a globe designed for a new campus Centennial Walk. This recognition is reserved for alumni who have participated in one or more years of international service.

Overseas deployment

The office of International Dental Affairs maintains support for 76 dental clinics around the world that affiliate with the General Conference of Seventh-day Adventists Health Ministries Department. The two LLUSD faculty who direct the program—Quint Nicola, SD'69, and Doyle Nick, SD'78, PG'95—have

far-ranging itineraries. During the current biennial period, they visited clinics, consulted with staff, assessed needs, and oversaw repairs in these countries:

India	Guam	St. Kitts
Rwanda	Saipan	Jamaica
Dominican Republic	Thailand	Lesotho
Congo	Malaysia	Zambia
Djibouti	Venezuela	Malawi
Japan	Guyana	Zimbabwe
Korea	Trinidad	Tanzania
Taiwan	Grenada	Kenya
Philippines	St. Vincent	

Negotiations for Masai Dental Clinic transfer

Negotiations with NASDAD completed in 2009 will accomplish transfer of a Masai Dental Clinic operated by World Health Dental Organization (WHDO) to become a NASDAD operation in partnership with LLUSD. The clinic, built by Ray “Safari Dentist” Damazo, DDS, provides dental care at no charge to the more than 30,000 Masai people who live within walking distance. Now it will also become a site for LLUSD students to broaden their awareness of global dental needs.

Stuart Rich, SD’87, describes a patient encounter at the Masai Dental Clinic:

Namoidu’s face is etched with six decades of living in the hardscrabble life of a Masai. Today it is etched with something else—deep, relentless pain. The fissures and lines embedded by years of exposure to the elements cover her face and neck—except for her grossly swollen lower right neck and jaw area, where the skin is drawn and tight. She sits sidesaddle on the dental chair, protecting the upholstery from her travel-worn plastic shoes.

An x-ray reveals that numbers 31 and 32 are grossly decayed. The dental assistant explains in Namoidu’s own language that she will give her an Akinosi block. With the anesthetic on-board and profound, I remove the culprit responsible for weeks of constant pain. My reward is a healthy flow of vile pus from the sockets.

After some manual decompression and suction, the effect on Namoidu’s appearance is immediate and dramatic. Not especially demonstrative, Namoidu clasps one of my large, smooth white hands with both of her thin, rough ebony ones. She says quietly, “Asanta Sana” (thank you very much), before shuffling out the door. The moisture at the corner of her eyes is relief from pain; in mine it is from gratitude for the opportunity to serve her.

New alumni dental appointees

- Sang Yoon, SD’01, St. Vincent
- Robert Renck, SD’09, Guyana
- Scott Parker, SD’08, Guam
- Jonathan and Debra Visscher, SD’08, Guam

Deferred mission appointees

Students who have volunteered for deferred mission appointments will amortize their dental tuition costs through overseas service. The General Conference of Seventh-day Adventists and the University cooperate in amortizing the students’ costs. Currently five dental alumni and students are committed to participate in an overseas clinic:

- William Shearer, SD’09
- Sarah-Jane Shearer, SD’10
- Ekaterina Tomenko-DiPinto, SD’10
- Paul Yoo, SD’08
- Michael DuVall, SD’12

These dental hygiene students, recipients of global service scholarships, served with distinction at their appointed sites:

- Deanna Harris, DH’07, St. Vincent
- Erin Abston, DH’08, Madagascar
- Olga Shakalova, DH’09, Saipan

Long and short-term mission appointments

At any one time, at least 237 dentists and dental hygienists are operating the overseas dental clinics. The following short-term appointees served as relief dentists or supplemented the dental care in one or more overseas clinic during 2008 and 2009:

- Kwang Chung, SD’82, Lusaka, January 29, 2008, to April 27, 2008; Kigali, Rwanda, July 1 to September 18, 2008; and St. Vincent, April 1 to May 31, 2009.
- Jesse Sacdalan, SD’88, Dhaka, Bangladesh, June 18 to August 20, 2008.
- James Joseph, University of Illinois ’67, Congo and Rwanda, November 2008.
- Kirk Hunt, SD’67, Kigali, Rwanda, and Kenya, April 16 to May 30, 2009.
- George Quittmeyer, SD’66, Madagascar, June 29 to August 24, 2009.
- Dennis Calkins, Howard University’71, Dhaka, July 29 to September 29, 2009.

INTERNATIONAL DENTAL AFFAIRS

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William Heisler, DDS
Executive Director

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

The National Association of Seventh-day Adventist Dentists (NASDAD) acknowledges with sincere thanks the logistical support of the Loma Linda University School of Dentistry (LLUSD) to the organization. The generous assistance of an Executive Secretary and office space for our secretary-treasurer and executive director are a major cost saving and convenience to NASDAD, savings that can be passed on to greater mission support. Having direct access to the associate director for Dental Affairs of the General Conference of Seventhday Adventists, housed in the same office, is most effective.

In its quiet, yet highly successful way, NASDAD has made, over the past 65 plus years, perhaps the greatest impact on dental care of any faith-based organization both in the United States and in the developing world. Each year NASDAD continues to provide funding for assistance to Loma Linda University School of Dentistry student "Service Learning" dental mission trips and, in conjunction with the General Conference Health Department, monetary assistance, guidance and support to a network of 76 clinics on five continents. Fiscal year 2008 donations to NASDAD'S YAMM (Year Around Mission Money) fund totaled \$57,000. And \$39,000 was used to support 15 dental mission projects. Response to requests for mission funding through the YAMM fund, voted at the October 2009 annual membership meeting in Kona, Hawaii, totaled \$112,000, with over \$11,000 received in the mission appeal offering at that meeting.



Masai Dental Clinic in Kenya

Overshadowed only by encouragement to the General Conference in the establishment of a Seventh-day Adventist School of Dentistry at Loma Linda is NASDAD'S direct involvement in the operation of the Masai Dental Clinic. Dr. Ray Damazo, known in Africa as the "Safari Dentist," established the Masai Dental Clinic in an area of Africa just five miles from the world-famous Masai Mara National Game Park in Kenya, East Africa, on property leased for 33 years. Working in the area for over 20 years to provide dental care at no charge to the more than 30,000 Masai people who live within walking distance, which can mean as many as 30-40 miles, Dr. Damazo, along with his wife, Gayle, began treating the local people where he found them. Working out of their Land Rover and two-axle, four-wheel trailer, they have so endeared themselves to the local people and the game park tour operators that they were asked to establish a fixed dental facility. Dr. Damazo, now well past normal retirement age, will turn his non-profit World Health Dental Organization over to NASDAD on July 1, 2010.

The recently built stone block building includes a second story, 1200 square foot, manager's apartment, and two smaller apartments for visiting clinicians. Each of the three fully equipped dental operatories includes fully functioning dental units and dental x-ray equipment. The clinic has full compressed air, vacuum and sterilization equipment as well as a lab and storage room.

Of special interest to LLUSD will be the availability of the clinic for "Service Learning" rotations by dental and dental hygiene students supervised by LLUSD faculty members or volunteer dentists with LLUSD adjunct faculty appointments.



Gregory Mitchell, DDS
Director

International Dentist Program

After major changes to the International Dentistry Program in 2007, improvements on the successful basic framework continue. The pre-program was implemented in 2008, comprising an extra quarter of specific hand-skill education that occurs before the start of the regular program. This program enables academically qualified students, whose previous programs provided limited opportunity to develop hand-skill experience, an opportunity to join the program. After completion of this pre-program, the students seamlessly begin the regular program with their fellow classmates. Consequently, for the past three years, five or six students each year have been able to participate in the IDP program who otherwise would not have qualified.

A service learning opportunity has been developed in which students rotate through the Meet Each Need with Dignity (MEND) clinic in the San Fernando Valley. International trips are also offered. During the past two years, Drs. Michael Fitzpatrick and Gregory Mitchell have led trips to the Amazon River and Leon, Mexico.

Loma Linda's International Program is unique in that admission requirements include successfully passing both Part I and II of national boards. Most dental schools require the passing of Part I only, and incorporate students directly into their traditional programs. Loma Linda's approach puts a greater emphasis on clinical experience and a focus on the "Loma Linda Philosophy" of clinical practice.

A family atmosphere continues to be important to the program. Several camping trips to the mountains, desert and



beach are scheduled and led by faculty throughout the year. A yearly Christmas party at a faculty's home has become a "can't-miss" event due to the great food and fellowship that occurs.

Dr. Mitchell has started a new tradition by organizing and leading a yearly houseboat/boating trip to Lake Mohave or Lake Powell for senior class students and their families.

Highlights

Late in 2009, Gregory Mitchell, SD'84, took the position of director, moving from the position of clinic director. Former IDP director, Michael Fitzpatrick, SD'87, has remained intimately involved, continuing to teach in lectures and clinic, and will be relied on for excellent counsel.

IDP continues to enjoy a 100% pass rate for licensing examinations and always enjoys celebrating the success of its varied and multicultural graduates. Competition for the 24 available program positions continues to escalate each year.

Changes in the program were received very favorably by CODA (Council on Dental Accreditation) site visitors during the School's accreditation visit in early 2009. Investigators singled out the IDP program for praise, calling it "an excellent and well-organized International Dentist Program."

Awards

Klaus Wolfram, SD '71, MS '73, associate professor, a West German immigrant by way of Canada (1958) and the United States Army (1960-1963), was awarded the International Dental Program Teacher of the Year for the fourth consecutive year.

Profoundly international

As the International Dentist Program continues to produce graduates, the national identities of its alumni grow increasingly diverse. After 26 years in operation, IDP has alumni from the following 78 countries:

IDP students countries of origin

Albania	Dominican Republic	Italy	Pakistan	Switzerland
Argentina	Egypt	Japan	Palestine	Syria
Armenia	El Salvador	Jordan	Palau	Taiwan
Australia	France	Kazakhstan	Panama	Tanzania
Azerbaijan	Georgia	Kenya	Paraguay	Thailand
Bangladesh	Germany	Kuwait	Peru	Turkey
Belarus	Guatemala	Kyrgyzstan	Philippines	Ukraine
Brazil	Haiti	Lebanon	Poland	United Kingdom
Bulgaria	Honduras	Lithuania	Puerto Rico	United States
Cameroon	Hungary	Macedonia	Romania	Uruguay
Canada	India	Madagascar	Russia	Uzbekistan
Chile	Indonesia	Malaysia	South Korea	Venezuela
China	Iran	Mexico	South Vietnam	Vietnam
Columbia	Iraq	Nepal	Srilanka	Yugoslavia
Cuba	Ireland	New Zealand	St. Vincent	Xianggang/HongKong
Czechoslovakia		Nicaragua	Sundan	



International Dentist Program students on an outing with their mentors, Drs. Fitzpatrick and Mitchell.



Gary Nelson
Director



Joseph Caruso, DDS, MS, MPH
Associate Dean

Faculty Dental Practices

A multiple purpose practice

A primary focus of the Faculty Dental Office (FDO) is to become a premier site for comprehensive dental care. The practice has the potential to provide patients with the multiple expertise and interaction of a select group of dentists.

Additionally, the FDO exists to enhance faculty practitioners' careers as they

- + continue their skills in dentistry,
- + develop new skills,
- + augment their faculty incomes.

Management strategies

With the plan to establish the Faculty Dental Office (FDO) at a new Hospitality Lane site in 2010, Joseph Caruso, DDS, MS, MPH, associate dean, Strategic Initiatives & Faculty Practice, chair, Department of Orthodontics, undertook during spring quarter 2009 the appointment of overseeing the transition and organization of the office to ensure that it would achieve its inherent potential. Collaborating with Gary Nelson, director in the patient business office and faculty practices, Dr. Caruso initiated plans for training faculty and developing a new vision of management.

Before the planning stages, Gary Nelson attended a dental boot camp organized by C3 Results, a management group

specializing in dental management, engaging the group to complete an assessment and audit of the FDO operation. Gary Nelson, true to his business sense, negotiated a consulting contract with C3 Results based on resultant increased revenues in FDO. Not only did the FDO achieve increased production—it reached a 60 percent increase in December 2009—but more importantly, patients, impressed with the service, were declaring that communication with the office was superior to that experienced any other office they had patronized. Both C3 Results and FDO had met their expectations.

C3 Results strategies included intense examination of team interaction, case presentations, and patient service. With the ensuing emphasis on maximizing the advantage of multiple practitioners on site, the FDO team has evolved into a community that seeks to provide service exceeding the patient's expectations. Twenty-seven dentists working in groups of twelve have established quotas and production goals and established an in-house referral and appointment apportionment system that efficiently utilizes the office personnel.

To provide a stable presence at the office, the FDO welcomed Kevin Brown, SD'07, in November 2009 as a full-time dentist to provide continuity of care and oversee the distribution of dental services. Says Dr. Caruso: "The team has been energized; they are delivering more

FACULTY DENTAL PRACTICES

procedures, more income, and prompter services. We are better prepared now than ever to move to our new facility on Hospitality.” The new location’s official name is Loma Linda University Center for Dentistry and Orthodontics.

The facility houses both the Center for Dentistry (the faculty practice) and the Center for Orthodontics (the graduate orthodontic program and all orthodontic faculty offices).

A transition that began in the recent biennium will be fully realized in the summer of 2010. The Faculty Dental Offices (right) long housed two hundred yards east and slightly north of Prince Hall will relocate and expand into the ground floor of the Center for Dentistry and Orthodontics on Hospitality Lane (below).



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Yiming Li, DDS, PhD, MS
Director

Center for Dental Research

The Center for Dental Research (CDR) at Loma Linda University School of Dentistry has grown to its 10th anniversary in 2009. With the School's commitment to and support of research, the CDR continued its success in research funded by government and industries as well as student research programs over the last years.

The School has increased its research budget by providing new salary support to six faculty members pursuing research excellence in areas of lasers, imaging, molecular biology, bone, herbal pharmacology, and esthetic dentistry. The CDR has been providing assistance to several new research faculty members with their needs for technical staff and initial seed funding. A number of new pieces of equipment have also been acquired to enhance the research capability in existing and newly expanded research areas. In addition, the CDR also provides matching funds for new equipment, supporting faculty of other departments for their needs for research supplies and technical staff, and travel to attend scientific meetings.

The CDR continues to be active in collaborative research at the University, national and international levels. CDR faculty members have served as members in national and international standards committees, as consultants to the American Dental Association, California Dental Association and several other national and state organizations, and on the Food and Drug Administration Dental Products Panel between 2006 and 2009.

A Research Strategic Committee is working diligently to formulate the future research goals as well as measures to achieve these goals. The short-term objectives include establishing research areas of excellence, pursuing NIH funding, and continuing to enhance the research capacity. Within the last year, four grant proposals have been submitted to the NIH, with a number of additional proposals planned; the capacity of clinical research facility will soon be more than doubled. Efforts have also been made to increase the research-based scientific publications.

Four research faculty joined the CDR



Lincoln Edwards, PhD, DDS



Neal Johnson, PhD, DDS

Lincoln Edwards, PhD, SD'09, assistant professor, earned his PhD in pharmacology in 1998 at Loma Linda University with a dissertation that explored the mechanism of physalia venom-induced ⁴⁵calcium uptake by cultured cells; he also completed a two-year postdoctoral training at Case Western Reserve University in 2001, where he conducted research in areas of pharmacology and nutrition.

Dr. Lincoln's current research is focused on the assessment of novel compounds acquired from European sources to determine whether some will control blood sugar without triggering an insulin reaction. One particular compound he is investigating appears to have the possibility of ameliorating simultaneously high blood pressure and diabetes. Such an outcome, he notes, would have a very significant and helpful impact on periodontal diseases.

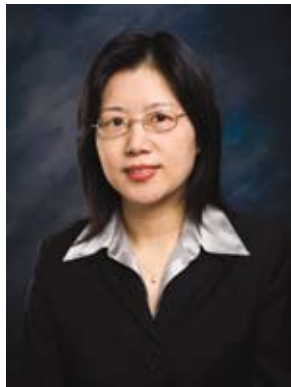
Neal Johnson, PhD, SD'08, assistant professor of oral diagnosis, radiology and pathology, is a graduate of LLUSD. He came to the study of dentistry with a doctorate in microbiology from Loma Linda University in 2004 that emphasized molecular genetics.

Since July 2009, Dr. Johnson has been serving as chair of the LLUSD research committee.

In his research, Dr. Johnson is assessing unidentified antimicrobial peptides that have the potential to treat oral infections—bacterial, fungal, or viral. He has also identified two genes in common oral bacteria that may have antibacterial properties and is conducting experiments to establish the spectrum of those properties.



Steven Kurti, PhD



Mei Lu, DDS, PhD, MS

Steven Kurti, Jr., PhD, joined the School as a full-time faculty in the summer of 2009 as associate professor and director of photonics and biomaterials laboratory at the Center for Dental Research.

Dr. Kurti earned his PhD degree in physics at Case Western Reserve University, Cleveland in 2005, for his work with solid-state lasers and nonlinear optics. As a civilian employee for the United States Navy, Dr. Kurti was assigned to the Naval Air Warfare Center in China Lake, where he spent much of his time assembling two new laboratories and writing grants to support them. In the last several years he has acquired over \$2 million in extramural funding and has submitted a fiber laser related patent application.

Dr. Kurti comes to the LLUSD with experience in lasers, spectroscopic studies, nonlinear optics, and fiber optics along with an informal education in his father's orthodontics practice. With these tools, he expects to investigate laser effects on dentition and dental materials as well as the potential of lasers for therapeutic and imaging purposes.

Mei Lu, DDS, PhD, MS, associate professor of oral and maxillofacial surgery, joined the LLUSD with a great enthusiasm for the value of research. "When they are

practicing dentists," she says of her predoctoral students, "they will be better practitioners if they understand how to perform a literature review and learn how to evaluate current research. It is a vital part of their training here at the LLUSD."

Dr. Lu pursued academic and professional credentials earned at Zhejiang University in China, Sydney University in Australia, and the University of Hong Kong with energy prompted by personal experience.

The recipient of numerous awards for her research, Dr. Lu is conducting research studies on EMP-2, a drug that stimulates one's own adult stem cells to grow bone and was recently approved by the Food and Drug Administration for use as a bone-filling material in dentistry.

Recently Dr. Lu, with a team at the CDR, has been collaborating with David J. Baylink, MD, an adjunct professor in the School of Dentistry, who is an internationally renowned scholar in bone research with more than 800 publications currently cited throughout the literature. The CDR is in the process of establishing a bone research laboratory where Dr. Lu will be one of the primary members of a bone research team.

Dr. Lu's special expertise in bone physiology has made her a principal investigator in an ongoing private study that will establish further applications for bone morphogenetic proteins.

LLUSD Chapter for AADR NSRG established

An LLUSD Chapter of the American Association for Dental Research (AADR) National Student Research Group (NSRG) has recently been established. The officers—Justin Weaver, SD'10, president; Scott Arceneaux, SD'11, vice-president of technology; Kirolos Zakhary, SD'11, vice-president of public relations; and Michael Knutson, SD'11, secretary—are working with faculty advisors Drs. Mei Lu, Yiming Li, and Ronald Dailey, PhD, executive associate dean for academic affairs, to improve the student research opportunities at the LLUSD.

CDR director presented School Distinguished Research Award

Dr. Yiming Li was awarded the School Distinguished Research Award at the School's 2009 commencement in recognition of his outstanding scholarship, illuminating teaching, significant contributions to the profession of dentistry, and distinguished service to Loma Linda University and its School of Dentistry.

LLUSD Faculty Publications 2008

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Craid Andreiko, SD'88, MS'91, assistant professor

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Andreana S. Post extraction ridge preservation. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Andreana S, **Bakland LK**, Stabholz A, Giovanni O, Lee EA, Romanos G. Laser symposium. Loma Linda, CA, November 9, 2008.

Andreana S. Crown lengthening: Indications, surgical techniques and periodontal-restorative relationship; systemic disease and periodontal disease: Is there a link? Effective antimicrobial agents for treatment of periodontal disease; esthetic dentistry: From material science to clinical practice. Greece and Eastern Mediterranean cruise, July 10-22, 2008.

Andreana S. Thermal propagation of 810nm diode laser in porcine dermal tissues. AADR annual meeting, Dallas, TX, 2008.

Angelov N. Regenerative techniques in periodontology: Bone grafts. Ss Cyril and Methodius University, Faculty of Dentistry, Skopje, Macedonia, July 2008.

Angelov N, Angelova D. Thermal propagation of 810nm diode laser in porcine dermal tissues. AADR annual meeting, Dallas, TX, 2008.

Angelov N. CE course: Periodontal research: Present and future. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Appleton C, Bainer D, Rees I, **Angelov N**, **Aprecio R**, **Andreana S**. In vitro effects of diode laser on fibroblasts. LLUSD Laser Symposium, November 9, 2008.

Armstrong D. Classroom experiences with audience response technology. ADEA annual session. Dallas, TX, 2008.

Armstrong D. Techniques in instrument sharpening (hands on). LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Baba N. CE course: Posts, cores, and adhesives: An update. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Baba N, **Daher T**. Prosthodontic workshop. LLUSD Advanced Implant Study Club, Loma Linda, CA, March 15, 2008.

Baba N. Using CAD/CAM technology to achieve predictable implant-supported prosthodontics. Beirut International Dental Meeting. Beirut, Lebanon. October 2008.

Baba N. All-ceramic restorations: success by design. Beirut International Dental Meeting. Beirut, Lebanon. October 2008.

Baba N. Interdisciplinary management of orthodontic-prosthodontic patients. American University of Beirut

Medical Center, Division of Orthodontics and Dentofacial Orthopedics. Beirut, Lebanon. July 2008.

Baba N. Tissue management and dental esthetics in fixed prosthodontics. 1st International Dental Congress of Cairo University. Cairo, Egypt. March 2008.

Baba N. Effect of thermocycling on bond strength of amalgam to dentin. Abstract # 108898. 86th Annual meeting of the International Association for Dental Research (IADR). Toronto, Canada. July 2008.

Baba N. Bond strength of amalgam bonded to dentin using various amalgam bonding agents. Abstract #99994. 37th Annual meeting of the American Association for Dental Research (AADR). Dallas, Texas. April 2008.

Baba N. Restoration of endodontically treated teeth: How, when and where. Anchorage Dental Society, Anchorage, AK. November 2008.

Baba N. Post, cores, and adhesives: An update. 48th Annual Dental Alumni Student Convention, Loma Linda University, Loma Linda, California. February 2008.

Baba N, Bakland LK. The restoration of endodontically treated teeth. Loma Linda, CA, December 7, 2008.

Bakland LK. Endodontic gems for the general practice. Loma Linda, CA, April 20, 2008.

Beneduce C. Thermal propagation of 810nm diode laser in porcine dermal tissues. AADR annual meeting, Dallas, TX, 2008.

Berry F. Extrusion of compromised teeth. LLUSD Alumni Student Convention, Loma Linda, CA, February 8, 2008.

Berry F. Western Regional Board Preparation Course. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Boyne P. Basic science and applied research of growth factors in bone healing. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Chavez C. Esthetics. LLUSD Alumni Student Convention, Loma Linda, CA, February 8, 2008.

Cheek D. Classroom experiences with audience response technology. ADEA annual session. Dallas, TX, 2008.

Chen J-W. Case diagnosis and discussion. Annual Scientific Meeting of Academy of Pediatric Dentistry, Republic of China, December 7, 2008.

Chen J-W. Oral manifestations and dental care in HIV-infected children. Annual Scientific Meeting of the Association for Dental Sciences of the Republic of China, Taipei, November 30, 2008.

Daher T. Advanced implant prosthodontic protocols. LLUSD Advanced Implant Study Club, Loma Linda, CA, September 10, 2008.

Daher T. Everything you wanted to know about implant overdentures. LLUSD, Loma Linda, CA, March 9, 2008.

Daher T. Esthetic and functional planning prosthodontics. LLUSD Advanced Implant Study Club, Loma Linda, CA, May 14, 2008.

Daher T. Implant prosthodontic procedures on patient: Live demonstration. LLUSD Advanced Implant Study Club, Loma Linda, CA, August 13, 2008.

Daher T. Learn from my mistakes. LLUSD Advanced Implant Study Club, Loma Linda, CA, December 10, 2008.

Daher T. Prosthodontic complication and management. LLUSD Advanced Implant Study Club, Loma Linda, CA, December 10, 2008.

Daher T. Treatment plan discussion. LLUSD Advanced Implant Study Club, Loma Linda, Ca, July 9, 2008.

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Daher T, Willardson J. Managing your implant dentistry specialty through new paradigms in prosthodontic treatment planning. LLUSD Advanced Implant Study Club, Loma Linda, CA, December 10, 2008.

Emanuelli S. New implant concept. LLUSD Advanced Implant Study Club, Loma Linda, Ca, November 12, 2008.

Estey M. Western Regional Board Preparation Course. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Giapocuzzi G. Implants in a rural dental practice. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Goodacre CJ. A contemporary approach to fixed prosthodontics. Indiana University School of Dentistry Graduate Prosthodontics. Indianapolis, IN, April 24, 2008.

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Goodacre CJ. A new day in the life of occlusion. University of Texas Health Sciences Center, San Antonio prosthodontic residents. San Antonio, TX, March 27, 2008.

Goodacre CJ. A new era for occlusion: The use of 3D digital technology to enhance education and understanding.

- Canadian Academy for Restorative Dentistry and Prosthodontics. Vancouver, BC, September 12, 2008.
- Goodacre CJ.** Clinical complications associated with endosseous root form implants. American Academy of Implant Dentistry Maxi course. LLUSD, Loma Linda, CA, November 14, 2008.
- Goodacre CJ.** Comparing prosthodontic, endodontic, and implant treatments for rational treatment decisions. Fort Gordon Prosthodontic Residency program. Fort Gordon, GA, May 9, 2008.
- Goodacre CJ.** Diagnosis and treatment planning for complex prosthodontic treatments. Wenzhou Medical College, Wenzhou, China, November 24, 2008.
- Goodacre CJ.** Root canal treatment or dental implants: Which one is best? University of Texas Health Sciences Center, San Antonio Prosthodontic residents, San Antonio, TX, March 27, 2008.
- Goodacre CJ.** Root canal treatment or dental implants: Which one is best? Exploring Excellence Study Club. Eugene, OR, April 17, 2008.
- Goodacre CJ.** Root canal treatment or dental implants: Which one is best? Orange County Dental Academy, Orange, CA, September 8, 2008.
- Goodacre CJ.** Root canal treatment or dental implants: Which one is best? San Gabriel Valley Dental Society, San Gabriel, CA, September 16, 2008.
- Goodacre CJ.** Root canal treatment or dental implants: Which one is best? American Dental Association Annual Session, San Antonio, TX, October 17, 2008.
- Goodacre CJ.** Tooth retention through root canal treatment or tooth replacement using implants or fixed partial dentures: Which one is best? Pacific Coast Society for Prosthodontics. Kona, HI, June 20, 2008.
- Goodacre CJ.** Tooth retention through root canal treatment or tooth replacement using implants or fixed partial dentures: Which one is best? Leoni Meadows medical/dental retreat, Grizzly Flats, CA, August 15, 2008.
- Handysides R. Endodontic gems for the general practice. Loma Linda, CA, April 20, 2008.
- Handysides R.** Western Regional Board Preparation Course. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Henkin JM.** Criteria for success and failure of dental implants. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Henkin JM.** Implant dentistry—Hard and soft tissue interactions. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Herford A.** Clinical applications of rhBMP-2. IBS Bone Symposium, Las Vegas, NV, February 3, 2008.
- Herford A.** Applications of growth factors in clinical problem areas. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Herford A.** Contemporary management of maxillofacial hard and soft tissue injuries secondary to trauma. Clinical applications of bone morphogenetic protein-2 (rhBMP-2). International Congress of the Iranian Society of OMS, Tehran, Iran, February 19, 2008.
- Herford A.** A comparison of distraction osteogenesis with the use of BMP. Academy of Prosthodontics annual scientific session, Houston, TX, May 14, 2008.
- Herford A.** BMP. Medtronic, Fresno Community Regional Medical Center, Fresno, CA, August 28, 2008
- Herford A, Kan JY.** Implant-periodontal esthetic symposium, Loma Linda, CA, September 21, 2008.
- Herford A, Kan JY.** Bone morphogenetic protein in implant surgery. Implant-periodontal esthetic symposium, Loma Linda, CA, September 21, 2008.
- Herford A.** Live surgery: "Beyond boundaries." American Academy of Implant Dentistry annual meeting. Broadcast from Loma Linda University to San Diego, CA, October 30, 2008.
- Herford A.** Clinical application for growth factors. American Institute of Oral Biology annual meeting, Palm Springs, CA, November 17, 2008.
- Hoffmann O.** Western Regional Board Preparation Course. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Honny J.** Digital radiography. LLUSD Alumni Student Convention, February 7, 2008.
- Hurlbutt M.** Classroom experiences with audience response technology. ADEA annual session, Dallas, TX, 2008.
- Jaramillo DE.** Advanced program in endodontics. Universidad de Guadalajara, Guadalajara, Jalisco, June 27-28, 2008
- Jaramillo DE.** American Association of Endodontic annual session. Vancouver, Canada. April 9-12, 2008.
- Jaramillo DE.** American Heart Association. Learn and live. Life Support Education CPR course. Loma Linda, CA, September 2008.

DENTAL FACULTY PRESENTATIONS

Jaramillo DE. Asociacion Mexicana de Endodoncia. XXXVII National Session. Leon, Guanajuato. May 28-31, 2008.

Jaramillo DE. Presence of biofilm inside the root canal system. LLUSD, Loma Linda, CA, April 20, 2008.

Jaramillo DE. Colegio de Endodoncia de Guanajuato, A.C. XXII International Seminar ENDO-2008. Guanajuato, Gto, Feb. 14-16, 2008.

Jaramillo DE. Nanosecond pulsed plasma dental probe. Asociacion de Endodoncia de Michoacan A.C. Internacional Meeting, Patzcuaro, Michoacan, February 7-10, 2008.

Jaramillo DE. Root canal microbiology. Universidad Autonoma de Ciudad Juarez y el Instituto de Ciencias Biologicas, August 29-30, 2008.

Jaramillo DE. Sociedad Jalisciense de Endodoncia (Jalisciense Endodontic Society) XXVII Annual Session. Guadalajara, Jalisco, October 24-25, 2008.

Jaramillo DE. Advanced program in endodontics. Universidad Autonoma de Baja California. Tijuana, Baja California Norte, March 29, 2008.

Kan JY, Lozada J. Anterior implant esthetics: Treatment planning, restorative and surgical concepts. LLUSD Alumni Student Convention, Loma Linda, CA, February 10, 2008.

Ko E. 'Tis the season': Keynote address. Chaffee College dental assisting graduation, Cucamonga, CA, 2008.

Krall B. Simulation workshop: Changing sedation/anesthesia guidelines. Anesthesia symposium, Loma Linda, CA, February 11, 2008.

Lee S. Recent advances in tooth bleaching. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Lee S. Techniques in instrument sharpening (hands on). LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Lee S. Predictability of national board pilot tests. ADEA annual session, Dallas, TX, 2008.

Leyman J. Simulation workshop: Changing sedation/anesthesia guidelines. Anesthesia symposium, Loma Linda, CA, February 11, 2008.

Lehnhof M. Effect of thermocycling on amalgam bonding. IADR, Toronto, Canada, July 2008.

Lozada J. Advanced surgical modalities. LLUSD Advanced Implant Study Club, Loma Linda, CA, May 14, 2008.

Lozada J. What's new in dental research? LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Lozada J, Daher T. Suturing workshop and Piezotome workshop. LLUSD Advanced Implant Study Club, Loma Linda, CA, June 11, 2008.



Dean Charles Goodacre and his wife Ruthie accompanied LLUSD presenters Michele Arambula, Wu Zhang, MD, and Alisa Wilson at the annual American Association for Dental Research meeting.

Lozada J. Guided bone regeneration techniques. LLUSD Advanced Implant Study Club, Loma Linda, CA, October 8, 2008.

Lozada J. Learn from my mistakes. LLUSD Advanced Implant Study Club, Loma Linda, CA, December 10, 2008.

Lozada J. Maxillary sinus grafting protocols. LLUSD Advanced Implant Study Club, Loma Linda, CA, July 9, 2008.

Lozada J. Surgical and implant prosthodontic demonstration. LLUSD Advanced Implant Study Club, Loma Linda, CA, August 13, 2008.

Lozada J. Surgical complications and management. LLUSD Advanced Implant Study Club, Loma Linda, CA, December 10, 2008.

Lu H. CE course: New developments in dental materials. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

- Makki A.** Temporomandibular joint dysfunction. American Society of Regional Anesthesia and Pain Medicine annual meeting, Huntington Beach, CA, November 22, 2008.
- Meharry M.** Re-reattachment of a fractured anterior crown: A case study. Academy of Operative Dentistry, Chicago, IL, February 22, 2008.
- Meharry M.** A comparison of micro digital photography (MDP) and quantitative light-induced fluorescence (QLF) in early caries detection. International Association for Dental Research, University of Iowa College of Dentistry, March 11, 2008.
- Meharry M.** A comparison of micro digital photography (MDP) and quantitative light-induced fluorescence (QLF) in early caries detection. International Association for Dental Research Poster presentation, Toronto, Canada, July 2, 2008.
- Morrow S.** Digital radiography (hands on). LLUSD Alumni Student Convention, February 7, 2008.
- Moutsopoulos NM, Nares SN, **Angelov N**, Wahl SM. P. gingivalis engages antigen presenting cell pathways linked to Th17 development. American Academy of Periodontology, Seattle, WA, 2008.
- Nelson B.** Anticipatory guidance. Tri-county Dental Society. March 2008.
- Novy B.** Beyond whitening and makeovers: Managing sensitivity through minimal intervention dentistry. San Fernando Valley Dental Society, San Fernando, CA, February 18, 2008.
- Novy B.** Avoid the heartaches associated with your life as a dentist. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Novy B.** Geysers and trees: What Yellowstone and dentin bonding agents have in common. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Novy B.** Material science of MI esthetic restorations. UNAN Dental School, Leon, Nicaragua, June 2008.
- Novy B.** Cutting edge caries management, AGD Annual Meeting, Orlando FL, July 2008.
- Novy B.** Spit your way to success, Minimally Invasive Dentistry Summit, Chicago, IL, August 2008.
- Novy B.** Six clinical habits of highly effective dentists. Dalhousie University, Nova Scotia, Canada, Sept 2008.
- Novy B.** Sensitivity solutions. AGD Leadership Conference, Chicago IL, Nov 2008.
- Novy B.** Cutting edge caries management in pediatric practices (with Dr. Ted Croll). Philadelphia PA, Nov 2008.
- Novy B.** Integrating CAMBRA in restorative curricula. Temple University, Philadelphia PA, Nov 2008.
- Pesevska S, Nakova M, Gjorgoski I, **Angelov N** Ivanovski K, Angelova S, Angelova D, **Andreana S.** Low-level diode laser periodontal treatment: Clinical findings. AADR annual meeting, Dallas, TX, 2008.
- Pesevska S, Nakova M, Gjorgoski I, **Angelov N**, Ivanovski K, Mindova S, Angelova D, **Andreana S.** Effect of laser on TNF-alpha in inflamed human gingival tissue. AADR annual meeting, Dallas, TX, 2008.
- Rathbun WE.** Infection control and California dental practice act. LLUSD, Loma Linda, CA, March 30, 2008.
- Richardson P.** Digital radiography. LLUSD Alumni Student Convention, February 7, 2008.
- Roche S.** Neurological disorders and treatment of common disorders. Arizona Endodontic Association, May 2008.
- Roche S.** The ABC's of TMD. Medical/dental retreat, Camp Mivoden, ID, August 4, 2008.
- Roche S.** When is a toothache not a toothache? Case-based learning. Medical/dental retreat, Camp Mivoden, ID, August 4, 2008.
- Roche S, Zecher S, Yuen P.** The ABC's of TMD. Loma Linda, CA, November 2, 2008.
- Stephens J.** "Hands-on" local anesthesia review. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.
- Tanaka W.** General practice residency program. University Medical Center, Las Vegas, February 2008.
- Taylor P.** Occlusion treatment. LLUSD Alumni Student Convention, Loma Linda, CA, 2008, February 7, 2008.
- Thomsen L.** What in the world is that? A review of clinical and radiographic pathology. LLUSD, Loma Linda, CA, May 4, 2008.
- Toledo G.** Restoring endodontically treated teeth. LLUSD Alumni Student Convention, Loma Linda, CA, February 8, 2008.
- Torabinejad M.** Endodontic gems for the general practice. Loma Linda, CA, April 20, 2008.
- Torabinejad M.** Endodontic emergencies. Iranian Society of Maxillofacial Surgery. Tehran Iran, February 20-22, 2008.
- Torabinejad M.** Endodontic surgery. International Jeddeh Conference, Jeddeh, Saudi Arabia, November 3, 2008.

Torabinejad M. Factors affecting decision making in treatment planning for root canal treatment and single tooth implant. AAE Fall Conference, San Francisco, CA, November 6-7, 2008.

Torabinejad M. Factors affecting decision making in treatment planning for root canal treatment and single tooth implant. Mashad University, Mashad, Iran, February 28, 2008.

Torabinejad M. Factors affecting decision making in treatment planning for root canal treatment and single tooth implant. Shahid Beheshti University, Tehran, Iran, February 25, 2008.

Torabinejad M. Factors affecting decision making in treatment planning for root canal treatment and single tooth implant. University, Isfehan, Iran, February 27, 2008.

Torabinejad M. Factors affecting decision making in treatment planning for root canal treatment and single tooth implant. University of Tehran, Tehran, Iran, February 28, 2008.

Torabinejad M. New advances in endodontics. International Jeddeh Conference. Jeddeh, Saudi Arabia, November 5, 2008.

Torabinejad M. Periapical surgery. Iranian Society of Maxillofacial Surgery. Tehran Iran, February 20-22, 2008.

Torabinejad M. Procedural accidents. Iranian Society of Maxillofacial Surgery. Tehran Iran, February 20-22, 2008.

Torabinejad M. Root canal treatment or single tooth implant? Iranian Society of Maxillofacial Surgery. Tehran, Iran, February 20-22, 2008.

Torabinejad M. Root canal or implant? International Jeddeh Conference. Jeddeh, Saudi Arabia, November 3, 2008.

Torabinejad M. Saving natural dentition using MTA. Academy of Prosthetic Dentistry, Houston, Texas, May 15, 2008.

Torabinejad M. Strategies to combat implants in dental schools. Annual session, American Association of Endodontists, Vancouver, B.C., Canada, April 10, 2008.

Traficante R. From the navy to the classroom. California Society of Pediatric Dentistry Annual Meeting, April 2008.

Trapp L. Simulation workshop: Changing sedation/anesthesia guidelines. Anesthesia symposium, Loma Linda, CA, February 11, 2008.

Trapp L. Pre-anesthesia preparation and management of the medically compromised dental patient. California Society of Oral and Maxillofacial Surgeons, Costa Mesa, CA, November 5, 2008.

Urban I. Principles in peri-implant histopathology and soft tissue surgery. LLUSD Advanced Implant Study Club, Loma Linda, CA, October 8, 2008.

Wilkins K. National Board Review: Periodontics with applications of histology and embryology. Pathways to Success, San Antonio, TX, May 2008.

Winer M. Diagnostic cases for occlusal analysis. LLUSD Alumni Student Convention, Loma Linda, CA, February 8, 2008.

Withers S. Techniques in instrument sharpening. LLUSD Alumni Student Convention, Loma Linda, CA, February 7, 2008.

Withers S. Correlation between OSCEs and dental hygiene clinical grads. ADEA annual session, Dallas, TX, 2008.

LLUSD Faculty Presentations 2009

Al-Ardah A. Dental implant systems. LLUSD Implant Study Club, Loma Linda, CA, July 9, 2009.

Al-Ardah A. Techniques for bone preservation and ridge augmentation. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Andreana S. CE course. Systemic and periodontal diseases. Mammoth Lakes medical/dental program, Mammoth Lakes, CA, January 28, 2009.

Angelov N. Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.

Appleton S. Dental influences of systemic health. World Health Organization meeting, Geneva, Switzerland, July 7, 2009.

Armstrong D. Sealant update. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Arnett L. Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.

Baba N. Prosthodontics after Orthodontics. American University of Beirut Medical Center, Division of Orthodontics and Dentofacial Orthopedics. Beirut, Lebanon. January 2009.

Baba N. Posts, cores, and adhesives: An update. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Baba N. Sleep apnea. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Baba N. Snoring and obstructive sleep apnea: A dental perspective. LLUSD Alumni Student Convention, Loma Linda University, Loma Linda, CA, February 2009.

- Baba N.** Aesthetic and functional enhancement of removable partial denture outcome through the use of attachments and implants. Loma Linda, CA, March 15, 2009.
- Baba N.** Restoration of endodontically treated teeth: How, when, and where? Continuing Education Department, Boston University, Boston, MA, April 2009.
- Baba N.** All-ceramic restorations: success by design. Armenian Dental Society of California, Glendale, CA, October 2009.
- Bakland LK.** Best practices in clinical dentistry. The Judson Klooster Symposium, LLUSD, Loma Linda, CA, September 20, 2009.
- Berry F.** Western regional board preparation course. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Caruso J.** Best practices in clinical dentistry. The Judson Klooster Symposium, LLUSD, Loma Linda, CA, September 20, 2009.
- Caruso J.** CE course: Sleep apnea. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Chen J-W.** Oral manifestations and dental care in HIV infected children. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Chen J-W.** Presurgical nasoalveolar molding appliance for the cleft infant. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Choi YC.** Implant design as it relates to biologic width. LLUSD Implant Study Club, Loma Linda, CA, November 5, 2009.
- Choi YC.** Technique/concepts for crestal bond maintenance on dental implants. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Christensen H.** Radiation safety and infection control. Meharry School of Dentistry, Nashville, TN, February 2009.
- Daher T.** Aesthetic and functional enhancement of removable partial denture outcome through the use of attachments and implants. Loma Linda, CA, March 15, 2009.
- Elo JA.** Sinus bone augmentation: A review of the common techniques. LLUSD Alumni Student Convention, Loma Linda, CA, February 20, 2009.
- Estey M.** Western regional board preparation course. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Fang J.** Medical coding for oral facial pain and oral medicine. University of Southern California, Los Angeles, CA, February 20, 2009.
- Fang J.** Update in TMD. Tri-county Dental Society, Colton, CA, March 2009.
- Fuentes P.** Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.
- Goodacre CJ.** Critical factors in restoring endodontically treated teeth. Rocky Mountain Dental Convention, Denver, CO, January 16, 2009.
- Goodacre CJ.** The most critical factors related to the restoration of endodontically treated teeth. Rocky Mountain Dental Convention, Denver, CO, January 16, 2009.
- Goodacre CJ.** Tooth retention through root canal treatment or tooth replacement using implants or fixed partial dentures: Which one is best? American Academy of Fixed Prosthodontics, Chicago, IL, February 27, 2009.
- Goodacre CJ.** The key factors affecting success in diagnosis and treatment planning. University of Minnesota School of Dentistry, Minneapolis, MN, March 6, 2009.
- Goodacre CJ.** Root canal treatment or dental implants: Which one is best? Endodontic specialty, Diamond Bar, CA, March 19, 2009.
- Goodacre CJ.** Creating optimally successful tooth preparations. American College of Prosthodontists, Chicago, IL, March 27, 2009.
- Goodacre CJ.** Implant treatment vs. root canal treatment: Which one is best? University of Southern California School of Dentistry, Los Angeles, CA, April 13, 2009.
- Goodacre CJ.** Implant treatment vs. root canal treatment: Which one is best? Washington Prosthodontic Society, Seattle, WA, April 16, 2009.
- Goodacre CJ.** Tooth retention through root canal treatment or tooth replacement using implants or fixed partial dentures: Which one is best? King Faisal University College of Dentistry: The seventh annual scientific symposium, Dammam, Saudi Arabia, May 27, 2009.
- Goodacre CJ.** Electronic education resources in dentistry: Benefits, formats, and application. King Faisal University College of Dentistry: The seventh annual scientific symposium. Dammam, Saudi Arabia, May 27, 2009.
- Goodacre CJ.** Fixed prosthodontics: The key factors affecting success in diagnosis and treatment planning. University of Maryland Dental School prosthodontic residents, Baltimore, MD, September 1, 2009.

Goodacre CJ. Best practices in clinical dentistry. The Judson Klooster Symposium, LLUSD, Loma Linda, CA, September 20, 2009.

Goodacre CJ. The compromised tooth—implant vs. root canal treatment. The Judson Klooster Symposium: Best Practices in Clinical Dentistry, LLUSD, Loma Linda, CA, September 20, 2009.

Goodacre CJ. A new era for occlusion: The use of 3D digital technology to enhance education and understanding. International Academy of Gnathology Congress XXIV, Tucson, AZ, September 24, 2009.

Goodacre CJ. Contemporary diagnosis and treatment planning in fixed prosthodontics. University of Connecticut School of Dental Medicine, Prosthodontics and Operative Dentistry, Farmington, CT, October 7, 2009.

Goodacre CJ. Clinical complications with conventional and implant prostheses: Causes and prevention. Sacramento District Dental Society, Sacramento, CA, November 20, 2009.

Goodacre CJ. Optimizing success with implant single crowns and fixed partial dentures. Sacramento District Dental Society, Sacramento, CA, November 20, 2009.

Goodacre CJ. Clinical complications associated with endosseous root form implants. LLUSD Implant Study Club, Loma Linda, CA, December 11, 2009.

Handysides R. CE course: Endodontic problem solving. LLUSD Alumni Student Convention, Loma Linda, CA, February 20, 2009.

Handysides R. Western regional board preparation course. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Handysides R. Cutting edge endodontics: An update on the new and coming. World Health Organization meeting, Geneva, Switzerland, July 7, 2009.

Handysides R. Pediatric endodontics. World Health Organization meeting, Geneva, Switzerland, July 7, 2009.

Hassan M. Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.

Hoffmann O. Western regional board preparation course. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Herford A. Bone regeneration utilizing rhBMP-2 technology. Medtronic Cranial Oral Maxillofacial Surgeon Education Program, Las Vegas, NV, January 15, 2009.

Herford A. Transport distraction for segmental defects. Chairman, AO North America Challenges and Advances

in the Management of Craniomaxillofacial Trauma and Reconstruction—Focus: Distraction osteogenesis, Salt Lake City, UT, January 17-18, 2009.

Herford A. Preprosthetic reconstruction options for implant placement. Walker Sinn Lecture, Dallas, TX, February 20, 2009.

Herford A. Preprosthetic reconstruction options. Study Club, University of Texas Southwestern, TX, February 21, 2009.

Herford A. Mandible onlay grafts: Round table clinic, new wave in implant therapy. Academy of Osseointegration annual meeting, San Diego, CA, February 26, 2009.

Herford A. CHAOS IX. Cook County Hospital Alumni Oral Surgeons, Chicago, IL, March 26, 2009.

Herford A. Bone regeneration utilizing rhBMP-2 technology. Medtronic Cranial Oral Maxillofacial Surgeon Education Program, Chicago, IL, March 25, 2009.

Herford A. Bone regeneration utilizing rhBMP-2 technology. Medtronic Cranial Oral Maxillofacial Surgeon Education Program, Houston, TX, March 26, 2009.

Herford A. Bone regeneration utilizing rhBMP-2 technology. Medtronic Cranial Oral Maxillofacial Surgeon Education Program, San Luis Obispo, CA, April 23, 2009.

Herford A. Use of rhBMP-2 in maxillofacial surgery. North Shore, Long Island Jewish Health System Medical Center, New York, NY, May 20, 2009.

Herford A. Application of rhBMP-2 in facial surgery. International Conference on Oral and Maxillofacial Surgery, Shanghai, China, May 22, 2009.

Herford A. Treatment of postpubescent JRA. International Conference on Oral and Maxillofacial Surgery, Shanghai, China, May 24, 2009.

Herford A. Use of rhBMP-2 in maxillofacial surgery. International Conference on Oral and Maxillofacial Surgery, Shanghai, China, May 21, 2009.

Herford A. Current grafting options for alveolar ridge augmentations. Western Society of Oral and Maxillofacial Surgeons annual meeting, Carmel, CA, July 2, 2009.

Herford A. Panfacial trauma. Technological advance in head and neck oncology and craniomaxillofacial surgery. Portland, OR, July 23, 2009.

Herford A. AONA principles of CMF trauma and reconstruction for ORP. Universal City, CA, August 10, 2009.

- Herford A.** Next professional steps. American Association of Maxillofacial Surgeons annual meeting, Toronto, Canada, October 15, 2009.
- Herford A.** Clinical applications of rhBMP in facial surgery. American Association of Maxillofacial Surgeons annual meeting, Toronto, Canada, October 15, 2009.
- Herford A.** Clinical approaches of rhBMP-2/ACS in facial surgery. John Sullivan, DDS, American Association of Maxillofacial Surgeons annual meeting, Toronto, Canada, October 15, 2009.
- Herford A.** CIG craniofacial: The application of rhBMP for cleft and craniofacial surgery. American Association of Maxillofacial Surgeons annual meeting, Toronto, Canada, October 15, 2009.
- Herford A.** Use of rhBMP-2 in preprosthetic surgery. New York University ICOI Implant Symposium, Linhart Continuing Dental Education program, New York University College of Dentistry, December 11, 2009.
- Herford A.** Biometric restorative dentistry: The adhesive revolution. Rancho Los Amigos National Rehabilitation Center, Downey, CA, 2009.
- Hoffmann O.** Second annual periodontics symposium, LLUSD, Loma Linda, CA, February 1, 2009.
- Hurlbutt M.** Innovation in clinical practice. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Hurlbutt M.** New age patient care: Dietary supplements and oral health. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Jesse J, Kaminer R.** Minimally invasive dentistry. LLUSD, Loma Linda, CA, April 26, 2009.
- Jimenez P.** Preparation for in-office general anesthesia. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Johnson E, Ojano M.** Restorative techniques using surgical microscopes for veneers and gold and CBCT for implant site location and placement. LLUSD Alumni Student Convention, Loma Linda, CA, February 20, 2009.
- Kan J.** Anterior implant esthetics. LLUSD Implant Study Club, Loma Linda, CA, August 6, 2009.
- Kattadiyil M.** Hands-on workshop: Prosthodontics implant diagnosis and treatment planning. LLUSD Implant Study Club, Loma Linda, CA, October 8-9, 2009.
- Kattadiyil M.** Hands-on workshops: Surgical Nobel Replace and Nobel Active: Restorative sequence screw retained prosthesis; LLUSD Implant Study Club, Loma Linda, CA, August 7, 2009.
- Kattadiyil M.** Implant diagnosis and treatment planning workshop. LLUSD Implant Study Club, Loma Linda, CA, June 4-5, 2009.
- Kattadiyil M.** Mandibular movements and principles of occlusion: Fabrication of cement retained MCCC and subperiosteal implants. LLUSD Implant Study Club, Loma Linda, CA, September 25, 2009.
- Kattadiyil M.** Prosthodontic diagnosis index ACP classifications; Implant diagnosis and treatment planning. LLUSD Implant Study Club, Loma Linda, CA, March 27, 2009.
- Khatami A.** Application of implant dentistry in maxillofacial prosthodontics. LLUSD Implant Study Club, Loma Linda, CA, November 6, 2009.
- Khatami A.** Prosthetic treatment of mandibular discontinuity defects with endosseous implants. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Kim YJ.** Periodontal regeneration? A gold for preservation of teeth. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Kleinman A.** New technologies for complete edentulous with O.I. implants. LLUSD Implant Study Club, Loma Linda, CA, July 10, 2009.
- Kleinman A.** Options for implant restorations for the completely edentulous patient, LLUSD Alumni Student Convention, February 19, 2009.
- Ko E.** Composite curing issues during the use of transparent polyvinyl matrices. International Association of Dental Research annual meeting, Miami, Florida, April 1-3, 2009.
- Krall B.** Best practices in clinical dentistry. The Judson Klooster Symposium, LLUSD, Loma Linda, CA, September 20, 2009.
- Krall B.** 29th Annual Anesthesia Symposium, LLUSD, Loma Linda, CA, February 22, 2009.
- Leyman J.** 29th Annual Anesthesia Symposium, LLUSD, Loma Linda, CA, February 22, 2009.
- Lozada J.** Hands-on workshop: Treatment of the maxillary sinus. LLUSD Implant Study Club, Loma Linda, CA, August 6, 2009.
- Lozada J.** Hands-on workshop: Prosthodontics implant diagnosis and treatment planning. LLUSD Implant Study Club, Loma Linda, CA, October 8-9, 2009.

Lozada J. Hands-on workshops: Surgical Nobel Replace and Nobel Active: Restorative sequence screw retained prosthesis. LLUSD Implant Study Club, Loma Linda, CA, August 7, 2009.

Lozada J. Implant placement workshop: Implant diagnosis and treatment planning workshop. LLUSD Implant Study Club, Loma Linda, CA, June 4-5, 2009.

Lozada J. Literature review methodology: Diagnostic imaging in implant dentistry. LLUSD Implant Study Club, Loma Linda, CA, March 26, 2009.

Lozada J, Martin E. Implant dentistry in a general dentistry practice. LLUSD Implant Study Club, Loma Linda, CA, May 7, 2009.

Lozada J. Predictable techniques for maxillary sinus grafting. LLUSD Alumni Student Convention, Loma Linda, CA, February 29, 2009.

Lozada J. Sinus grafting in implant dentistry. LLUSD Implant Study Club, Loma Linda, CA, November 6, 2009.

Meharry M. News and reviews in cosmetic dentistry, from acid etch to zoom. LLUSD Alumni Student Convention, Loma Linda, CA, February 20, 2009.

Meharry M. The effect of surface defects in early caries assessment. Oral presentation of abstract. International Association for Dental Research, April 1, 2009.

Mobilia A. Clinical management of dental hypersensitivity. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Mobilia A. Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.

Moretta C. A review of flaps for dental alveolar surgery and management of complications. LLUSD Alumni Student Convention, Loma Linda, CA, February 20, 2009.

Nick D. SDA dental mission: Factors affecting dental care delivery—Where to now? World Health Organization meeting, Geneva, Switzerland, July 7, 2009.

Nicola Q. SDA dental mission: Factors affecting dental care delivery—Where to now? World Health Organization meeting, Geneva, Switzerland, July 7, 2009.

Novy B. Hands on maximize MI techniques (twice),. Yankee Dental Congress, Boston, MA, Jan 2009.

Novy B. Beyond whitening & makeovers, San Fernando Valley Dental Society, San Fernando, CA, Feb 2009.

Novy B. Six clinical habits of highly effective dentists, Tufts University, Boston, MA, March 2009.

Novy B. Beginning of the end, Parris Study Club, Anaheim, CA, April 2009.

Novy B. Implementing CAMBRA curricula. CDA Spring Scientific Session, Anaheim, CA, May 2009.

Novy B. Maximize the power of MI techniques. AGD Annual Meeting, Baltimore, MD, July 2009.

Novy B. Early caries diagnosis and minimally invasive dentistry. World Health Organization meeting, Geneva, Switzerland, July 7, 2009.

Novy B. Maximize the power of MI techniques Webinar. Viva Learning, August 2009.

Novy B. Don't be just a dentist. Leoni Meadows Medical Dental Retreat, Leoni Meadows, CA, August 2009.

Novy B. Emerging dental materials, Tri County Dental Society (California Dental Assoc.), Colton, CA, Sept 2009.

Novy B. Caries diagnostics. San Diego Odontic Seminar (with Dr. Wenyuan Shi), San Diego, CA, Oct 2009.

Novy B. Private practice prevention philosophies. ADA annual meeting, Honolulu, HI, Oct 2009.

Patel R. CAD/CAM implant dentistry. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Rathbun WE. Infection control. LLUSD, Loma Linda, CA, April 5, 2009.

Rathbun WE. Robin B. Infection control and California dental practice act. LLUSD, Loma Linda, CA, November 15, 2009.

Richards S. Oral Pathology: Case presentation. Annual Clinical Pathologic Conference, Southern California Academy of Oral Pathology, Los Angeles, CA, May 27, 2009.

Richards S. CE course: Oral pathologic lesions. LLUSD, Loma Linda, CA, April 6, 2009.

Roberts D. Suba S. CE course: Western regional board preparation course. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.

Ririe C. Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.

Rogers T. The world-wide challenge of HIV/Aids and patient management issues for dentists and strategies for preventing transmission of HIV and hepatitis to dental health care workers. World Health Organization meeting, Geneva, Switzerland, July 7, 2009.

Roggenkamp C, Berry F, Lu H. In vitro bond strengths of amalgam repaired at intervals through seven years. Indiana University, IN, June 27, 2009.

- Silston S.** Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.
- Stringer D.** Sleep apnea. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Tanaka W.** General practice residency program, University Medical Center, Las Vegas, February 2009.
- Taylor P.** Occlusion. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Thomsen L.** A review of common oral lesions with emphasis on early detection of oral cancer. Leoni Meadows medical/dental retreat, Grizzly Flats, CA, August 8, 2009.
- Thomsen L.** A review of common oral lesions. Indian Health Service and Dental Conference. Sacramento, CA, May 5, 2009.
- Thomsen L.** A review of oral lesions. Tri-county Dental Hygiene Society, Colton, CA, January 22, 2009.
- Thomsen L.** Oral pathology. Annenberg Center for Health Sciences, Rancho Mirage, CA, May 6, 2009.
- Thomsen L.** Oral pathology. Periodontal Society, Palm Springs, CA, March 25, 2009.
- Thomsen L.** Oral pathology: Diagnosis and treatment. Scandinavia/Russia cruise, July 6-18, 2009.
- Thomsen L.** What in the world is it? A review of clinical oral pathology. Edwards P. Johnston Memorial Lecture, Victorville, CA, December 9, 2009.
- Thomsen L, Cheek D.** LLUSD survey study: Teach tobacco treatment program. Society for Research on Nicotine and Tobacco, Dublin, Ireland, April 2009.
- Torabinejad M.** Best practices in clinical dentistry. The Judson Klooster Symposium, LLUSD, Loma Linda, CA, September 20, 2009.
- Torabinejad M.** Root canal treatment or single tooth implant? Clinical applications of MTA: Yankee Dental congress. Boston, MA, January 3, 2009.
- Traficante FR.** Antibiotic update. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Traficante FR.** Preparation for medical emergencies in the dental office. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Trapp L.** 29th Annual Anesthesia Symposium. LLUSD, Loma Linda, CA, February 22, 2009.
- Trapp L.** Pediatric sedation: Where do we go from here? California Pedodontic Research Conference, Mammoth Lakes, CA, October 12, 2009.
- Trapp L.** Sedation of the pediatric dental patient: The last fifty years. California Pedodontic Research Conference, Mammoth Lakes, CA, October 12, 2009.
- Urban I.** Surgical complications and management in implant dentistry and predictable vertical bone augmentation. LLUSD Implant Study Club, Loma Linda, CA, November 5, 2009.
- Valentini P.** Hands-on workshop: Treatment of the maxillary sinus. LLUSD Implant Study Club, Loma Linda, CA, August 6, 2009.
- Wiessman A.** An overview of correction of mucogingival defects. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Wiessman A.** Everything you wanted to know about sutures and suturing, but were afraid to ask. LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Wiessman A.** Second annual periodontics symposium. LLUSD, Loma Linda, CA, February 1, 2009.
- Winer M.** Diagnostic data collection: Case presentation and diagnosis and treatment workshop. LLUSD Implant Study Club, Loma Linda, CA, April 10, 2009.
- Winer M.** Occlusal analysis: Your right to know! LLUSD Alumni Student Convention, Loma Linda, CA, February 19, 2009.
- Young, R.** The tools of esthetic communication. Alumni Student Convention, LL, CA, February 19, 2009.

Dental Student Research 2008

Presented at the Alumni Student Convention (ASC)

“Comparing the effectiveness of floss with the toothpick in removing supragingival interproximal plaque”

Vincent Drouin, Claire Lee, Mark Brown, Graig Erickson

Mentor: Dr. Adrian Mobilia

ASC first place/clinical

“Efficacy of interproximal irrigation with an essential oil-containing mouthrinse in the maintenance of gingival health”

Pauline Karunakaran and Lawrence Lee

Mentor: Dr. Adrian Mobilia

ASC second place/clinical

“Influence of Eugenol & non-Eugenol endodontic sealers on fiber post retention”

Dr. Sejal Sheth, Dr. Prashant Verma

Mentors: Drs. Mike Fitzpatrick, Sebastiano Andreana, Rob Handysides and Huan Lu

ASC first place/laboratory

CDA third place/clinical

“Hyraxinduced CBCT streak artifacts may alter the appearance of buccal cortical bone in post-RME orthodontic cases”

Julie Catalano, Kimberly Bentjen

Mentor: Dr. Leroy Leggitt

ASC second place/laboratory

“Influence of tooth preparation design on the microleakage of laminate veneer”

Nathan Proud, Josh Chenowith, David Lee

Mentor: Dr. Huan Lu

ASC third place (tie)/laboratory

“Comparative study of Peridex and Consepsis with regards to bond strength of bonding agents”

Abtin Rahimian, Diaa Zora, Samer Tabel

Mentor: Dr. Brian Novy

ASC third place (tie)/laboratory

“Computer aided diagnosis of oral pathology”

Ryan Falke, Sue Jean Park, Brian Evans

Mentor: Dr. Susan Richards

ASC first place/educational

CDA first place/educational

“Dental office design template to alleviate dental associated phobias”

Tristan Hamilton, David Norwood, Michael Lopez

Mentor: Dr. Mark Estey

ASC second place/educational

“Creating a new oral health care manual”

Eric Grove, Jasper Yai and Louis Yap

Mentor: Dr. Les Arnett

ASC third place (tie)/educational

“Induced dry field dentistry”

Josh Cartter, Jonathan Channer, David Ericksen

Mentor: Dr. Larry Trapp

ASC third place (tie)/educational

CDA third place/scientific

“Diffusion Hypoxia: Myth or Reality?”

Nolan Korando, Dennis Iverson, Sonny Porter

Mentor: Dr. Barry Krall

CDA second place/scientific

“The presence of Sodium Hypochlorite in external region of the apical third after ultrasonic instrumentation”

Bilyana Tesic, Mervin Moya

Mentor: Dr. Sebastiano Andreana

“Creating a new OHC manual”

Eric Grove, Jasper Yai, Louis Yap

Mentor: Dr. Leslie Arnett

“Survey of the knowledge and in-office use of Povidone-iodine as an anti-caries agent by dental professionals”

Rachel Deininger, Allison Phang, Jessica Smith

Mentor: Dr. Brian Novy

“Changes that occur to a microbrush when applied With acetone based primer A and B”

Yujin Choi, Angela Lee, EunHye Grace Sheen

Mentor: Dr. Brian Novy

“axiUm training website and certification for part-time dental faculty”

Scott Smith, R. J. Hennenberg, Jeff Wight

Mentor: Dr. Brian Black

“Developing a first aid kit and emergency protocol for the mission team”

KeuSung Yun, Yoonheok Choi, Sun Chun Kim

Mentor: Dr. Tom Rogers

STUDENT TABLE CLINIC RESEARCH PROJECTS

“Influence of tooth preparation design on the microleakage of laminate veneer”

Nathan Proud, Josh Chenowith, David Lee

Mentor: Dr. Huan Lu

“Reliability of MRI for Steiner Analysis”

Devin Gerrard, Scott Seaman

Mentor: Dr. Leroy Leggitt

“Pediatric Dental Education and OHC”



The Dental Hygiene table clinic team of Tracy Robertson, Melissa Beesley, and Olga Shaklova, won first place at the CDHA, second place at the CDA and third place (against 47 teams) at the American Dental Hygienists' Association's 86th Annual Session in Washington, DC, in 2009.

Scott Krause, Rhett Olsen, Beatrice Criveanu

Mentor: Dr. Bonnie Nelson

“To Private Practice and Beyond: Continuing Use of Dental Materials by LLUSD Alumni”

Andrew Dyer, Colin Forde

Mentor: Dr. Wesley Okumura

“Brushy Time”

Jimmy Cheung, Catharine Kwon, Margaret Soh

Mentor: Dr. Joseph Curtin

“Computer Aided Diagnosis of Oral Pathology”

Ryan Falke, Brian Evans, Sue Jean Park

Mentor: Dr. Susan Richards

“Developing a Basic Dental Emergency Guide Booklet for Foreign Missions”

Si-yeun Sung, Sharon Foster

Mentor: Dr. Tom Rogers

“Products & Materials Available on Clinic”

Jonathan Gantz, Ben Emery, Treavor Fisher

Mentor: Dr. Fred Berry

“Low Level Laser Therapy and Biostimulation of Connective Tissue Cells”

Ivan Rees, Carl Appleton, David Bainer

Mentors: Drs. Sebastiano Andreana and Dr. Nikola Angelov

“The Precision Analysis of Shade Guides Using X-RITE Shade Vision System”

Lindsey Johnston, Robert Renck

Mentor: Dr. Sebastiano Andreana

“Effects of Moisture Contamination on Shear Bond Strength of Glass Ionomer Sealant”

Jesse McClung, Kim Eek, Joe Flechas

Mentors: Dr. Huan Lu, and Ms. Darlene Armstrong

“Comparison of Streak Artifacts Caused by Orthodontic Brackets in ICAT and Newtom CBCT Images”

Dane McClurg, Vanessa Chun

Mentor: Dr. Leroy Leggitt

“Bleaching Efficacy of a Commercially Available Whitening Gel on Human Enamel Using Different Application Times Measured by Calibrated Examiners”

Shaun Flynn, Shiva Gahremani, Luiza Nersisyan

Mentor: Dr. Sebastiano Andreana

“Antibacterial Efficacy of Whitening Mouthwash”

Kyung Duk Choi, Diana Lee, Young Chul Park

Mentor: Dr. Yiming Li

“Potential Patient Cross Contamination from Ineffective Portable Sterilization Techniques”

Eric Cornelius, Dan Ninan, William Shearer

Mentors: Dr. Doyle Nick and Mr. Raymond Aprecio

“Comparative Study of Peridex and Consepis With Regards to Bond Strength of Bonding Agents”

Abtin Rahimian, Daa Zora, Samer Tabel

Mentor: Dr. Brian Novy

“Job Satisfaction Among Southern California Dentists Survey”

Kimberly Bensonhaver, Jennifer Rearrick

Mentor: Ms. Joni Stephens

STUDENT TABLE CLINIC RESEARCH PROJECTS

“Efficacy of Interproximal Irrigation with an Essential Oil-containing Mouthrinse in Maintenance of Gingival Health”

Pauline Karunakaran

Mentor: Dr. Adrian Mobilia

Dental Hygiene Student research 2008

Presented at the Alumni Student Convention (ASC)

“Comparing the Effects of ACP and Fluoride in Whitening Gel on Human Enamel”

Laura Houghton, Rachel Rasco, Melinda Hall

Mentor: Dr. Yiming Li

ASC first place/laboratory

“Effect of Whitening Strips on Microhardness and Color Change of Human Dentin”

Jennifer Williams, Erin Abston, Mindy Goltiao

Mentor: Dr. Sebastiano Andreana

ASC second place/laboratory

“Building Strength: Minimizing Dental Muscular Injuries”

Ashley Kraft, Janak Gordhan, Ryan Madsen

Mentor: Ms. Joni Stephens

ASC first place/educational

CDA third place/dental hygiene

“Oral Health Care: Educational Tool for Early Elementary School Students”

Kati Schmalz, Sara Staker, Tiffany Haack

Mentor: Ms. Darlene Cheek

ASC second place/educational

“Abrasion on Composite Restorations of Two Commercially Available Whitening Toothpastes”

Charis Wright, Chelsea Doyle, Rivann Chea

Mentors: Drs. Huan Lu and Yiming Li

“The Effect of Flavored Iodine on Oral Bacteria”

Lindsey Lassell, Kim Nelson, Victoria Shelton

“Oral Health Care: Educational Tool for Early Elementary School Students”

Kati Schmalz, Sara Staker, Tiffany Haack

Mentor: Ms. Darlene Cheek

“Efficacy of Whitening Toothpastes on Artificially Stained Teeth in Ex Vivo Conditions”

Michele Rees, Kami Kirk, Stephanie Altman

Mentor: Dr. Sebastiano Andreana

“Antimicrobial Potential of Two ACP CPP Pastes”

Robin Redinger, Kim Eddy, Jeehyun Hwang

Mentor: Dr. Brian Novy

“Effect of Whitening Strips on Microhardness and Color Change of Human Dentin”

Jennifer Williams, Erin Abston, Mindy Goltiao

Mentor: Dr. Sebastiano Andreana

“Enhancing Oral Health Care Instructions”

Deborah Balderrama, Lee-Anne Bautista, Tara Lofgren

Mentors: Dr. Leslie Arnett and Ms. Shirley Lee

“Retrospective Study on Implant Patients’ Satisfaction & Behavioral Modifications”

Adrienne Alexandru, Katie Webster, Christine Zakhary

Mentor: Dr. Sebastiano Andreana

Dental Student Research 2009

Presented at the Alumni Student Convention (ASC)

“Principles and Techniques in Oral and Maxillofacial Suturing”

Justin Weaver, Kari McCloskey, Emily Herndon

Mentors: Dr. Mei Lu, Dr. Wayne Tanaka

ASC first place/educational studies

CDA first place/community/educational

“VisionStar Solo”

Lisi Dewa, Luke Cockerham, Nicholas Wilson

Mentors: Dr. Mei Lu, Dr. Charles Goodacre

ASC second place/educational studies

CDA third place/community/educational

“Can You Save a Life?”

Lisa Gortari, Lauren Gutenberg, Damien Garcia

Mentors: Dr. Mei Lu, Dr. Barry Krall

ASC first place (tie)/clinical studies

CDA third place/clinical

“CPP-ACP Effects After Whitening Treatment”

Brian Harward, Sherin Johnson, Weston Spencer

Mentors: Dr. Mei Lu, Dr. Holli Riter

ASC first place (tie)/clinical studies

CDA honorable mention/clinical

“Gow Gates Target Area and Maxillary Artery Anatomical Relationship”

Stuart Seheult, Jerhet Ask, Nicholas Marongiu

Mentors: Dr. Mei Lu, Dr. Barry Krall

ASC second place/clinical studies

CDA first place/clinical

STUDENT TABLE CLINIC RESEARCH PROJECTS

“Comparison of Bond Strength Between Conventionally Prepared, Laser Prepared, and Laser Prepared With Carbide Bur Revision Teeth”

Bobby Chun, Elbert Choi

Mentors: Dr. Jame Jesse, Dr. Mei Lu

ASC first place/laboratory studies

CDA third place/laboratory

“Differences in Composite Shear Bond Strength Using Air-abrasion, Diamond Bur, and Carbide Bur Finishes”

Jamie Atiga, Nathan Adams, Scott Peterson

Mentors: Dr. Mei Lu, Dr. Holli Riter

ASC third place/laboratory studies

“Dental Materials Online Guidebook”

Jonathan Garcia, Ian Stewart

Mentor: Dr. Fred Berry

“Post-insertion Instructions for Removable Dentures”

Jenelle Silvers

Mentor: Dr. Nadim Baba

“Is Fluoride for You?”

Jesse Whitely, Kai Steele, David Royer

Mentor: Dr. Bonnie Nelson

“Xerostomia, A Model for Patient Education”

Iris Choi, Ivan Colon, Timothy Wieg

Mentor: Dr. Susan Richards

“Pre-and Post-Natal Oral Care”

Ekaterina Tomenko, Sarah-Jane Harebottle

Mentors: Dr. Bonnie Nelson, Dr. Richard Grabowsky

“Cost Effectiveness of Teeth Whitening by Using Three Different Concentrations of Hydrogen Peroxide Products”

Henry Chung, Na Kim, Young Kim

Mentor: Dr. Jung Hwa Suh

“Post Operative Care for Endodontically Treated Teeth”

Jerome Ocampo, Josef Wollman

Mentor: Dr. David Jaramillo

“Extrusion (Rapid Forced Eruption)”

Jeremy Hoff, Adam Panos

Mentor: Dr. Fred Berry



The dental student table clinic team of Justin Weaver, Kari McCloskey, and Emily Herndon won first place at the California Dental Association annual session in 2009.

“Dental Dam Contamination During Root Canal Therapy”

James Rho, Darcy Kasner, Scott Pyo

Mentor: Dr. David Jaramillo

“Survey of Dental Materials Used by Recent Dental School Graduates”

Janelle Tonn, Brad Field

Mentor: Dr. Wesley Okumura

“Prevalence of Periodontitis in Patients of Loma Linda University School of Dentistry with Different Medical Conditions: Hypertension, Cardiovascular Disease, Diabetes, and Smoking”

James Lee, Hyun-Jung Kim, Soh Yeun Kim

Mentor: Dr. Daniel Armstrong

“Influence of Higher pH Solutions on Local Anesthetics in Dentistry”

Bryan Horgan, Vitalia Borishkevich, Ryan Payne

Mentor: Dr. Barry Krall

“MRI vs. CBCT”

Monleudy Bracken, Ankin Deragobian, Donald Lee

Mentor: Dr. Leroy Leggitt

“Reproducibility of Six Methods of Evaluating Tongue Coating”

Wook Jeong, Dong Hoon, Lee, Jihun Moon

Mentor: Dr. Yiming Li

STUDENT TABLE CLINIC RESEARCH PROJECTS

“The Study of Bisphosphonates at LLUSD”

Jessica Bong, Annalise Hilliard, Jonathon Park

Mentors: Dr. Susan Richards, Ms. Joni Stephens

“Private Practice Experience of Dental Clinic and Laboratory Instructors”

Gene Pak, Chad Kim, and Chan-Bae Kim

Mentor: Dr. Gregory Mitchell

“Steiner-Cephalometric Analysis Using 3D MRI”

Scott Seaman, Devin Gerard

Mentor: Dr. Leroy Leggitt

“Alternative Method to Placing Fuji II LC”

Samuel Saesim, Joonsuk Ha, Jahyun Koo

Mentors: Drs. Robert Traficante and Jung-Wei Chen

“Comparing the Effectiveness of Dental Floss, Toothpick and Interproximal Brush in Removing Supragingival, Interproximal Plaque”

Shamir Sevilla, Justin Mercer

Mentor: Dr. Adrian Mobilia

“Physical Characteristics of Glass Ionomer Following Exposure to the Oral Environment”

Brent Hiebert, Chad Allen, Denver Eslinger

Mentor: Dr. Brian Novy

“Dental School Waterline Microbial Content”

Yojin Chon, Susan Lee

Mentor: Dr. Wu Zhang

“Changes of Surface Roughness of Dental Materials by Coca-Cola”

Sukchan Yoo, Sang Gyu Shin, Dustin Jung

Mentor: Dr. Yiming Li

Dental Hygiene Student Research 2009

Presented at the Alumni Student Convention (ASC)

“Needle Deflection”

Olga Shakalova, Melissa Beesley, Tracy Robertson

Mentor: Dr. Barry Krall

ASC first place/laboratory studies

CDHA first place

CDA second place

ADHA third place

“Xylitol Several Times a Day May Keep Cavities Away”

Jessica Hatch, Donna Park, Ashley Fujikawa

Mentor: Ms. Darlene Cheek

ASC first place/educational studies

“A comparison of two dental varnishes”

Lori Lujan, Shannon Chennault, Cortney Bellinger

Mentor: Ms. Michelle Hurlbutt

ASC first place/clinical studies

CDA third place/clinical

“Your Child’s First Smile Begins at Birth”

Jessica Black, Landi Hansen, Leslie Ross

Mentors: Ms. Michelle Hurlbutt and Ms. Joni Stephens

ASC second place/clinical studies

“Dental Care for Mommy and Me”

Shaelene Trees

Mentors: Ms. Joni Stephens and Ms. Darlene Cheek

CDA honorable mention

“Caries Susceptibility Tests”

Courtney McEowen, Jayme Jesse, Lauren McEowen

Mentors: Dr. Brian Novy, Ms. Michelle Hurlbutt

“Dental Hygiene Career Satisfaction: What Is the Magic? Attitudes and Perceptions from the Generations”

Shanda Wallace

Mentor: Dr. Barry Krall

“Factors Which Influence Flossing”

January Chay, Amy Russell, Brie Victorsen

Mentors: Dr. Robert Wilkins, Ms. Darlene Armstrong

“Helping Kids Say No”

Julie Coan

Mentors: Ms. Darlene Cheek, Ms. Michelle Hurlbutt

“The Oral Effects of Herbal Mouthwashes (oolong tea and licorice root extract) on Oral Bacteria (*S. mutans*, *E. Fecalis*)”

Justina Tran, Roksana Kouroshnia, Juliana Spiridon

Mentor: Dr. Neal Johnson

“Comparison of Effectivities Between Active Ingredients of Leading Mouth Rinses”

Roy Ando, Daniel Tapia

Mentor: Dr. Ray Aprecio

This list represents all full-and-halftime faculty as of January 2010.

Administration

Charles Goodacre – dean
 Ronald Dailey
 William Hooker
 Rami Jekki
 Fred Kasischke
 Heidi Kohltfarber
 Kathleen Moore
 W. Patrick Naylor
 Paul Richardson
 Ronald Secor

Kellie Bergendahl
 Sharon Boggs
 D. Darlene Cheek
 Janeen Duff
 Debra Friesen
 Jean Honny
 Michelle Hurlbutt
 Shirley Lee
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 Jennifer Moss
 Jonell Stephens

Wayne Tanaka
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 Joseph Caruso – chair
 James Farrage
 Gabriela Garcia
 Roland Neufeld
 Kitichai Rungcharassaeng
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Advanced Prosthodontics

Mathew Kattadiyil – director
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Endodontics

Mahmoud Torabinejad – director
 Robert Handysides – chair
 Leif Bakland
 David Jaramillo
 Bonnie Retamozo

Pediatric Dentistry

Jung-Wei Chen – director
 Bonnie Nelson – chair
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Center for Dental Research

Yiming Li – director
 Sean Lee
 Huan Lu

Implant Dentistry

Jaime Lozada – director
 Aladdin Al-Ardah
 Joseph Kan
 S. Alejandro Kleinman

Periodontics

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 Craig Ririe – chair
 Sebastiano Andreana
 Nikola Angelov
 R. Leslie Arnett Jr.
 Gary Bogle
 Manoochehr Gothtasbpour Parsi
 Oliver Hoffmann
 Yoon Kim
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 Leticia Lenoir
 Adrian Mobilia
 Chun Xiao Sun
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Dental Anesthesiology

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 Barry Krall – assoc. director
 John Leyman – chair

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Gregory Mitchell – director
 Michael Fitzpatrick
 Andrea Lewis
 Ronald Sorrels
 Klaus Wolfram

Dental Educational Services

Marjorie Arnett
 Perry Burtch
 Graciela Duran
 Lincoln Edwards
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 George Lessard
 Edna Maye Loveless
 William Loveless
 H. Maynard Lowry
 M. Gary Nelson
 Quint Nicola
 Thomas Rogers
 Esther Valenzuela
 Robert Wilkins
 Wu Zhang

Oral Diagnosis, Radiology & Pathology

Lane Thomsen – chair
 Heidi Christensen
 Neal Johnson
 Hilbert Lentz
 Ali Makki
 Susan Richards
 Susan Roche

Restorative Dentistry

Douglass Roberts – chair
 Viviana Avila-Gnau
 Nadim Baba
 Frederick Berry
 Mark Estey
 Madelyn Fletcher-Stark
 Ronald Forde
 Gary Golden
 Bertin Hall
 Emmanuel Klein
 Edward Ko
 Monica Lehnhof

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Kristi Wilkins – chair
 Darlene Armstrong
 Carla Beneduce

Oral & Maxillofacial Surgery

Alan Herford – director, chair
 Mohammad Mohammadi-Araghi
 Philip Boyne
 Carlos Moretta

School of Dentistry Faculty (by department)

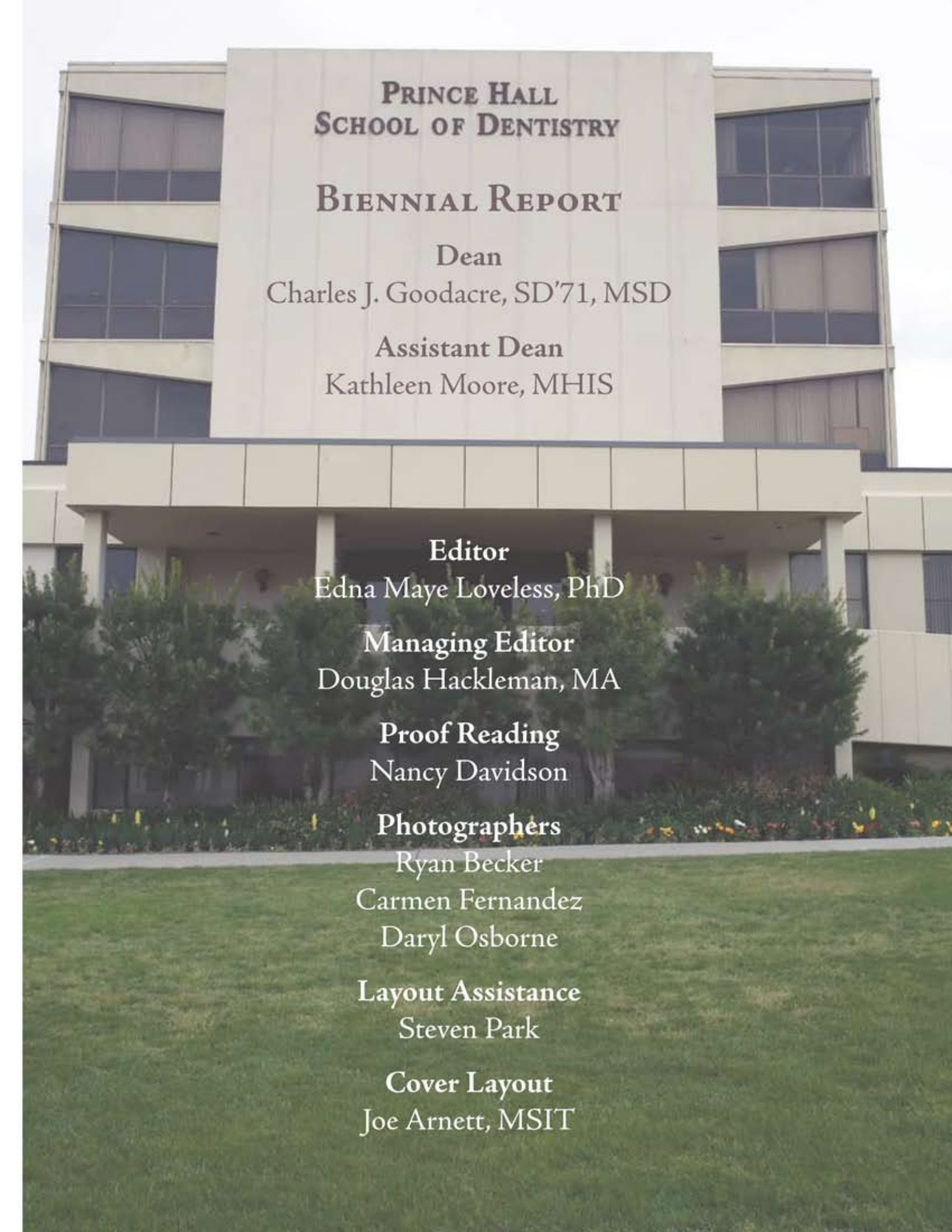
Michael Meharry
Doyle Nick
Brian Novy
Clyde Roggenkamp
Daniel Tan
L. Parnell Taylor
Marcelo Toledo
Robert Walter
John Won
Ronald Young

Clinic Administration

Daniel Armstrong
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George Blount
David Brodeur
Garth Brown
Nathan Dinsbach
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William Heisler
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Steven Morrow
Luminita Narita
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Raghad Sulaiman
Fidel Torres
Julian Tsai
Robert Walter
Periza Zaninovic



With the assistance of volunteers from the LLU Dental Student Association, the School of Dentistry's office of admissions and recruiting offers a three-day Careers in Dentistry Workshop each summer for high school seniors, college students and adults who are considering a career in oral healthcare.

The background of the entire page is a photograph of the Prince Hall School of Dentistry building. The building is a multi-story, modern structure with a light-colored facade and large windows. The text is overlaid on the central part of the building's facade.

**PRINCE HALL
SCHOOL OF DENTISTRY**

BIENNIAL REPORT

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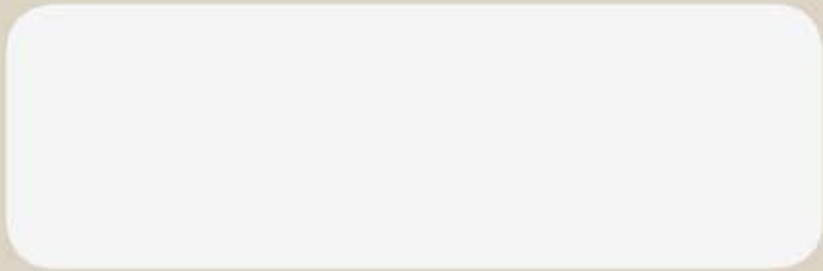
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