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Winter 2021

LLUSD Articulator - Volume 31, Number 2

Loma Linda University School of Dentistry

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LOMA LINDA
UNIVERSITY
School of Dentistry

LLUSD ARTICULATOR

The melding of compassion and competence in dental education

**Faculty arrive,
faculty advance**

**Mary Hartwell
concludes 40
years**

**LLUSD's virtual
commencement**

**Student research
awarded**

**Departed faculty
eulogized**



LLUSD ARTICULATOR

The melding of competence and compassion
in dental education.

VOLUME 31, NUMBER 2 WINTER/SPRING 2021

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

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LLUSD Mission

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

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

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

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

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

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

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

Congratulations to the Class of 2020!



Distancing requirements relegated the 2020 LLUSD commencement to a virtual occasion on the internet via a video communications platform.

Editor's note:

Sometimes it feels as though nothing much is really real anymore.

It is only seldom that we see a live smile much less shake a hand or give a hug. And now the alumni journal comes to you virtually, intangibly it seems. Some of you in the past have been known to save and archive your School of Dentistry alumni journals—the originally named *Dentistry* and the more recent *Articulator*—on shelves or in boxes, or even have them bound. And I just wanted to point out that it is still possible for those of you who, like me, enjoy reading print on paper by the window in your favorite chair to save these virtual publications as PDFs on a thumb drive and have them printed on whatever paper options your local business center offers.

In this pixelated issue of *Articulator* we cannot make up for what the 2020 graduates lost in the absence of a pinning ceremony, a baccalaureate Sabbath service, or a commencement ceremony, but we've done belatedly what we can to celebrate and memorialize their hard-earned accomplishments.

Beyond that, the School will be hosting a drive-thru graduation makeup event for the LLUSD classes of 2020 that will stage in the Prince Hall parking lot on May 2 at 9:00am.

Doug Hackleman, MA

Editor

The natural arch cover photograph was taken by V. Leroy Leggitt, DDS'84, MS'92, MS, PhD, chair, Department of Orthodontics and Dentofacial Orthopedics, May 18, 2018, at 2:47am in the northeast corner of Joshua Tree National Park. The clouds were illuminated by light from the Palm Springs area. The arch was illuminated by a small LED "tea light." The photographer's intention was "to capture the core of the Milky Way behind the arch."

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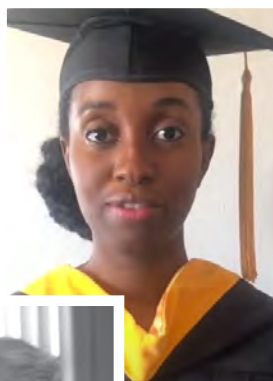
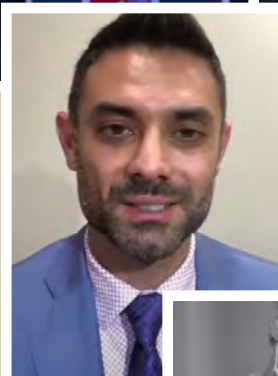
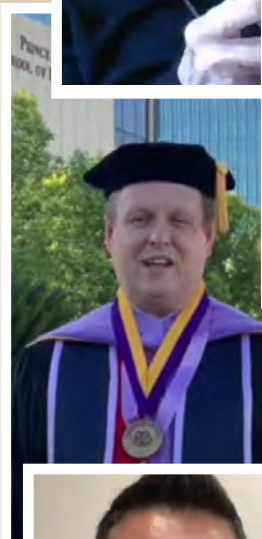
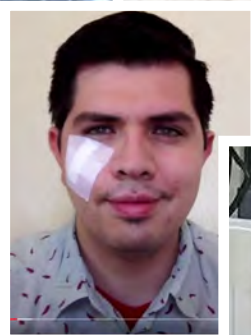
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Join a tradition of giving!

Dean's
Circle



The purpose of the Dean's Circle is to support students and enhance their educational experience. Our Dean's Circle members are important partners in our mission to provide the finest in oral healthcare education. Your gift makes this possible by funding scholarships, updating facilities, supporting service opportunities, and much more.

Gifts of \$1,500 or more to any School of Dentistry fund qualify you for Dean's Circle membership and benefits.*

More information regarding the Dean's Circle and other School of Dentistry giving opportunities can be found at dentistry.llu.edu/about/giving-opportunities.



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School of Dentistry

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**Gifts of \$1,500 or more must be donated within the same calendar year and received by December 31st to qualify for Dean's Circle membership.*

DEAN'S MESSAGE

The particular promise of spring

Spring is one of my favorite times of year. The dormancy of winter yields to the flourish of new life and activities. Trees blossom, flowers bloom, and Easter arrives with its message of hope and promise of life. Our spirits are renewed and we find strength to move forward.

This year is no different than other years in some ways, and yet so different in others. The season is changing as usual even as we emerge from a strangling, restrictive, and harrowing year in which we all have been ravaged by the pandemic. If you have not lost personal loved ones, you are in the minority. Most of us have been mentally, emotionally, physically, socially, and spiritually impacted to one degree or another. It has been tough.

Having said that, if you know me, my tendency is to look for the positives—the glass half full rather than the glass half empty approach. So, in the attempt to kick away the pandemic blues that I see fading quickly and change our focus to future possibilities, I'd first like to share some appreciation by expressing my deepest gratitude to the LLUSD family. We have just wrapped up the Vision 2020 philanthropic campaign. It has been an amazing success and one that boosts us into the future with hope and new resources that lift the entire organization. As LLUH we raised \$411 million, including \$18.52 million the School of Dentistry raised directly. For those who still wonder, I want to assure you the money designated for your alma mater came to the dental school and will enhance tremendously what we as a School can offer our students and the community we serve. . It is awe inspiring to witness how through trying times you have all supported our mission.

Today we as a school and an administrative team are focusing on the post-pandemic actions we need to take to improve the School. We are actively engaged in strategic



Dr. Robert Handysides

planning to determine what we will look like ten years from now. Vision 2020 elicited your tangible support and we will continue to engage with you and seek your insights as we bring to fruition our calling to live a life of service.

So thank you, from the bottom of my heart; thank you for all you have done for your alma mater. Hope is in the air, and we anticipate with the optimism of faith continuing the journey forward together.

Warmly,

Rob Handysides, DDS'93

Dean

LLU School of Dentistry



How will you leave your **LEGACY?**

● Drs. Edmond and Ella Haddad are leaving their legacy by giving the gift of opportunity. Both educators at Loma Linda University Health, they decided to make a gift through real estate. Proceeds from its sale established the Ella and Edmond Haddad International Student Scholarship in the Loma Linda University School of Public Health and added to The Labeeb Haddad Memorial Scholarship in Loma Linda University School of Dentistry.

“Qualified students from all over the world should have the opportunity to receive a higher education. We believe everyone has something that they want to promote and for us that is love, peace and hope.”

– Drs. Edmond and Ella Haddad

To learn how you can give from your IRA account or about establishing a Planned Gift, visit lulegacy.org or call 909-558-4553.

MANY STRENGTHS. ONE MISSION.



**LOMA LINDA
UNIVERSITY
HEALTH**

Upcoming CE Courses



Dr. Charles Goodacre



Dr. Brian Goodacre

What should you know about contemporary fixed and removable prosthodontic treatments?

Sunday, April 25, 2021, 9:00 am – 4:30 pm

Lecturers: **Charles J. Goodacre, DDS, MSD, and Brian J. Goodacre, DDS, MSD**



Dr. Paul A. Hansen

The Dental Wear Patient, Diagnosis and Treatment

Sunday, June 6, 2021, 9:00 am – 4:30 pm

Lecturer: **Paul A. Hansen, DDS**

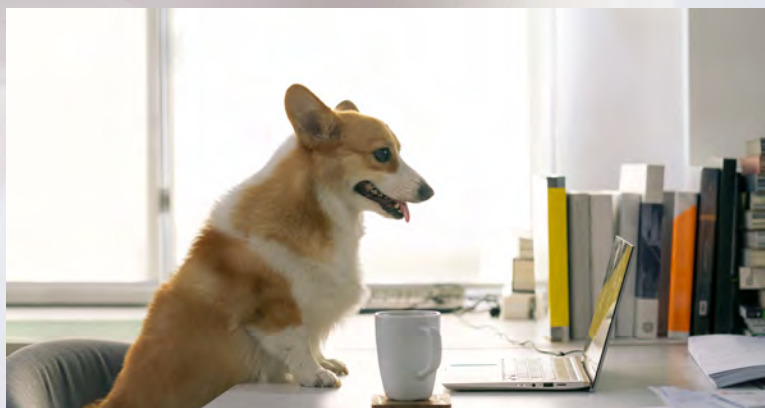
Management of Dental Conditions

Sunday, May 2, 2021, 9:00 am – 4:30 pm

Lecturer: **M. Anthony Pogrel, DDS, MD**



Dr. M. Anthony Pogrel



Our programs are so interesting even your pet will want to watch.

For more specifics about each CE course
dentistry.llu.edu/continuing-education

Pre-register for courses at:
<https://tinyurl.com/yxebt8oq>

**Seven (7)
hours of
interactive
continuing
education
credit per
course**

TRANSITIONS

LLUSD welcomes new faculty members

A few weeks before the ongoing pandemic arrived, the School of Dentistry added four faculty members to its full-time clinical roster—three to the Division of General Dentistry, one to the Department of Endodontics. Each appointment was effective January 1, 2020.

- Khalid Al Hezaimi, professor, Department of Endodontics

- Jennie Caldwell, DDS, assistant professor, Division of General Dentistry
- Nada Hanna, BDS, DDS, assistant professor, Division of General Dentistry
- Sunee Limmeechokchai, DDS, MSD, assistant professor, Division of General Dentistry



Dr. Al Hezaimi



Dr. Jennie Caldwell



Dr. Nada Hanna



Dr. Sunee Limmeechokchai

TRANSITIONS

LLUSD promotes faculty members

Effective January 1, 2020, the School of Dentistry promoted four of its existing clinical faculty members to new academic titles, three from the Division of General Dentistry and one in the Department of Periodontics.

- Brian Goodacre, DDS'13, MSD'17, Associate Professor, Division of General Dentistry

- Dr. Natalie Hohensee, DDS'08, MS, Associate Professor, Division of General Dentistry
- Dr. Yoon-Jeong Kim, DDS, MS, MS'06. Professor (and chair) Department of Periodontics
- Dr. Erin Richards, DDS'10 Associate Professor, Division of General Dentistry



Dr. Brian Goodacre



Dr. Natalie Hohensee



Dr. Yoon-Jeong Kim



Dr. Erin Richards

TRANSITIONS

Mary Hartwell concludes 40-plus years at LLUSD

Long-time manager of the clinic floor, Mary Hartwell received a November 2, online farewell.

She came to LLU School of Dentistry in 1979 as an administrative secretary. She planned to stay a year. Forty-one years later Mary Hartwell retired as Dental Clinics manager.

In 1984 the School was re-designing its clinic experience for students. Mary Hartwell was its personnel manager of choice. "I never thought about applying for the clinic job," she says. Her colleagues persuaded her, promising a series of pertinent courses for her to pursue. She brought to the position considerable managerial skills that she had never defined: raising a daughter and son, taking into her home a series of youth who needed rescuing, as well as dealing with policies germane to her earlier employment in offices at Andrews University and Loma Linda Academy.

Her job assignment: maintain smooth-running clinics. She prepared LLUSD's job descriptions manual and participated in hiring processes. Her oversight affected the expanding dentistry performed in the School's main clinics as well as in its departmental clinics, all serviced by Mary's oversight of sterilization, clinic supply, switchboard operation, and conflict resolution strategies. As gate keeper of the clinic, she oriented second-year dental students to the clinic and its procedures, getting to know each student by name.

For LLUSD employees, Mary created Keeping Connected through which employees met the second Friday of each quarter in the Prince Hall lobby for enrichment accompanied by snacks, gift cards, and raffles—"a way of giving back," she says. She recruited expert speakers on topics of interest, such as exercise, police protection, and cooking. She also met monthly with the 24 clinic supervisors to update them on procedures.

Additionally, everyone at the School came to expect Mary's involvement in extracurriculars: Twice a year during academic break when administration invited dental school employees to

"wash down" the walls and floors of the lab and lobby and scrub the cubicles and dental chairs, Mary greeted as many as 100 employees with scrubbing equipment as well as breakfast and music to enhance the experience.

Clinic with a Heart, which began in 1990, operated annually for 29 years, attracting several hundred patients and as many as 400 volunteers—students, teachers, and staff—providing free dental care. Mary was there when the registration line opened at 6 a.m., orchestrating assignments in advance to create a seamless integration of service.

A Thanksgiving drive to provide food for needy student families found Mary and her team soliciting and delivering food—Costco provided turkeys, eggs, and pies, she recalls. Organizing a Christmas breakfast for employees wasn't anyone's job description. Mary's team arranged the venue and the menu.

Responding to the School's annual toy drive, LLUSD staff filled Mary's office during each Christmas season with toys to be delivered to children in one of the area's poorest communities.

Always monitoring a flurry of activity centered around her office, Mary's steady oversight gave it predictable precision.

She was quick to credit associates' expertise, developing appreciations that led to warm, long-term friendships. Recognition for her contributions came with a Distinguished Service Award in 2003.

No one asked, "Why?" when Mary was named honorary member of the Omicron Kappa Upsilon Society, dentistry's honor society during LLUSD's 2014 commencement ceremony. She had enhanced the working and learning environment of the School. More recently, summing up her 40 plus years experience, she declared warmly: "I felt privileged every day as I walked on the campus. They let you do your job. They had faith in me."



Mary Hartwell

Mary Hartwell's retirement plaque reads:

Love, Life & Laughter

November 2020

Mary T. Hartwell

Thank you for 41 years of Dedicated

Service

to Loma Linda University School of

Dentistry.

COMMENCEMENT***2020 LLUSD graduates' virtual commencement***

64th commencement canceled by COVID-19 pandemic.

While COVID-19 mitigation efforts placed a severe damper on the School of Dentistry's ability to celebrate its 2020 graduating classes and programs, the pages that follow comprise an effort to memorialize the accomplishments of the School's recent graduates as they represent no less a victory than under normal, less arduous, circumstances.

Toward that recognition, the alumni journal is including here class panels for the 2020 graduates and screen shots from the LLU School of Dentistry 2020 Graduation Celebration Video that features remarks by Dean Robert Handysides and each of the graduating class presidents or representatives followed by a series of ten-second frames on which each graduate had the opportunity to celebrate their journey and new professional status. Enjoy the video at: <https://tinyurl.com/38dt86rn>

Standing in front of the Good Samaritan statue with the newly erected LLU Medical Center rising behind him, Dean Handysides empathised with the graduating classes in their feelings of upset, hurt, disappointment, and anger at being unable to celebrate their momentous achievement in person at a traditional commencement ceremony. These feelings he said were shared by the School's administration and faculty in the very same way—feelings, he emphasized, “that sometimes in a single day all wash over us.”

Out of a shared frustration for its graduates missing a traditional, in-person commencement, the LLUSD administration sent each of its graduates a care package to reaffirm its sincere wishes that each graduate will find a fulfilling career in their chosen oral healthcare endeavor.

The 2020 LLU School of Dentistry Commencement Program pages that ordinarily would have been printed in the LLU Conferring of Degrees books handed out at Commencement, can now be viewed with cap and gown and mortarboard photos added online at: <https://tinyurl.com/49amr92d>

*So our charge to you is, go
boldly forward, with confidence
as God's willing servants.
Practice your healing arts with
passion.
Know your School of Dentistry
family stands behind you as
you go forth to further the
teaching and healing ministry
of Jesus Christ and make
man whole.*

— Dean Robert Handysides, DDS

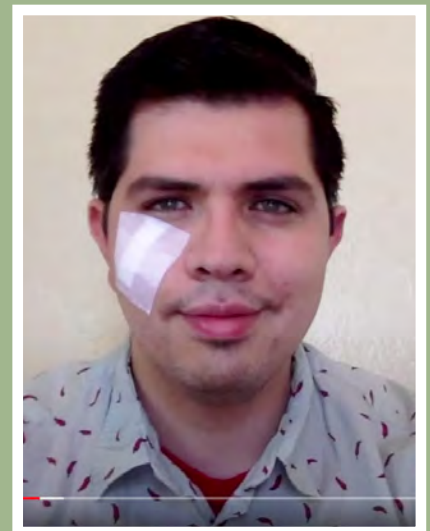
Congratulations to the Class of 2020!

https://www.youtube.com/watch?v=BVWH_YxtkCA



Dean Robert Handysides congratulated the graduating classes of oral healthcare providers many of whom were returning to their varied communities to launch their professional careers.





Dr. Jerdie Ale

The LLUSD doctor of dental surgery class of 2020 numbered 104 graduates, was comprised of 73 men and 30 women. At matriculation in 2016, the class included an ethnic diversity of 42 Asian Pacific Islanders, 36 Caucasians, 13 Hispanics, nine unspecified, and three African Americans. Forty-eight members of the class matriculated from Seventh-day Adventist undergraduate programs. The average age of the class at intake was 26.4 years and the class cumulative GPA was 3.44.

The following link will take you to a graduation video that includes presentations by the dean, the class presidents, and a benediction by Jon Won, DDS'05, head, Division of General Dentistry: <https://tinyurl.com/6uw562k>

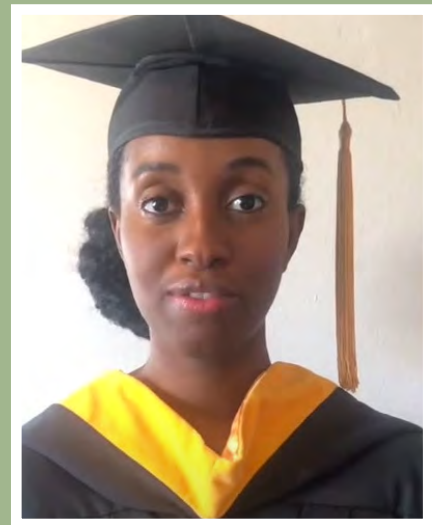
Clicking the class panels on subsequent pages will take you to 2020 LLU School of Dentistry Commencement Program pages online where graduates are pictured in caps and gowns: <https://tinyurl.com/49amr92d>

Katherine Talitha Anne Saylor
*American Academy of Implant Dentistry,
 American Academy of Orofacial Pain,
 Honors in Implant Dentistry*

Loran Edward Ong

Nicholas J. Lampasi

Kimberly R. Mah



Ms. Sabine Merville

The LLUSD dental hygiene class of 2020 numbered 37 graduates, was comprised of 30 women and seven men. At matriculation in 2018, the class included an ethnic diversity of 17 Hispanics, 15 Caucasians, eight Asian Pacific Islanders, and two African Americans. Eleven members of the class matriculated from Seventh-day Adventist undergraduate programs. The average age of the class at intake was 23.9 years and the class cumulative GPA was 2.96.

The following link will take you to a graduation video that includes presentations by the dean, the class presidents and a benediction by Jon Won, DDS'05, head, Division of General Dentistry: <https://tinyurl.com/6uw562k>

Clicking the class panels on subsequent pages will take you to 2020 LLU School of Dentistry Commencement Program pages online where graduates are pictured in caps and gowns: <https://tinyurl.com/49amr92d>

Catalina Hali Hannah
*Social Vice President
 Service Learning Award
 cum laude*

Class of 2020

"My soul finds rest in God alone, my salvation comes from Him." Psalm 62:1

Noe G. Garcia

Class of 2020

For we are His workmanship, created in Christ Jesus for good works, which God prepared beforehand that we should walk in them. -Ephesians 2:10

Tiffany T. Doan

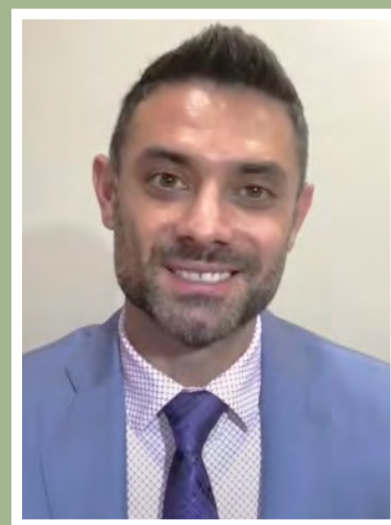
Class of 2020

Thank you, Mom, Chris, & Mel for all your support throughout the years that has allowed me to pursue my passions & dreams

Adelle Anderson
*Bates Award
 cum laude*

Class of 2020

Thank you to everyone who has helped me on this incredible journey and praise to God. Romans 8:28

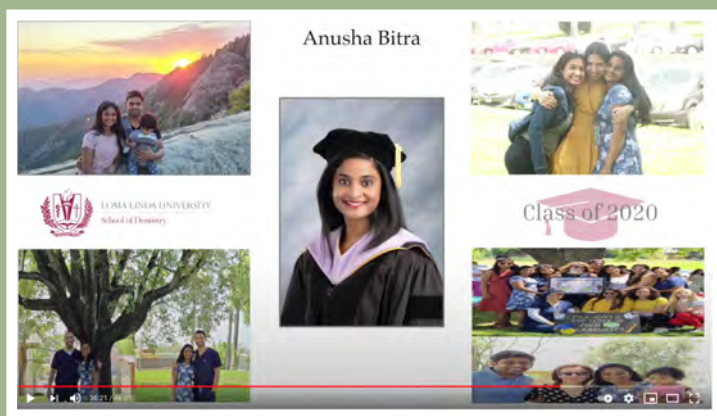


Dr. Masih Rezaei

The LLUSD International Dentist Program class of 2020 numbered 30 graduates, was comprised of 23 women and seven men. At matriculation in 2018, the class consisted of students from 13 different countries. The average age of the class at intake was 30.03 years.

The following link will take you to the class zoom graduation presentations by the dean, the class presidents and benediction by Jon Won, DDS'05, head, Division of General Dentistry: <https://tinyurl.com/6uw562k>

Clicking the class panels on subsequent pages will take you to 2020 LLU School of Dentistry Commencement Program pages online where graduates are pictured in caps and gowns: <https://tinyurl.com/49amr92d>



Anusha Bitra

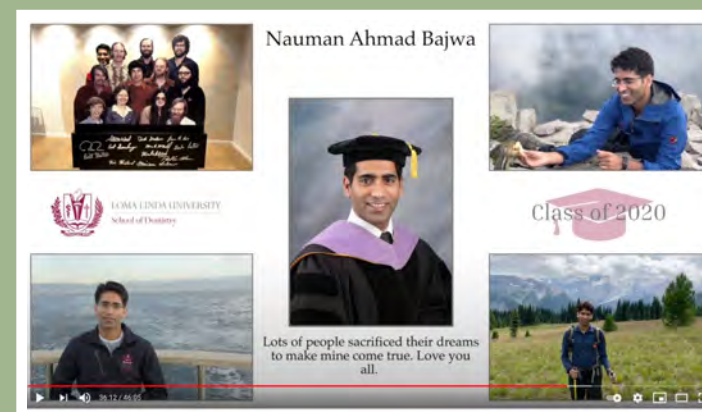


Salar Zeinali Gelabi



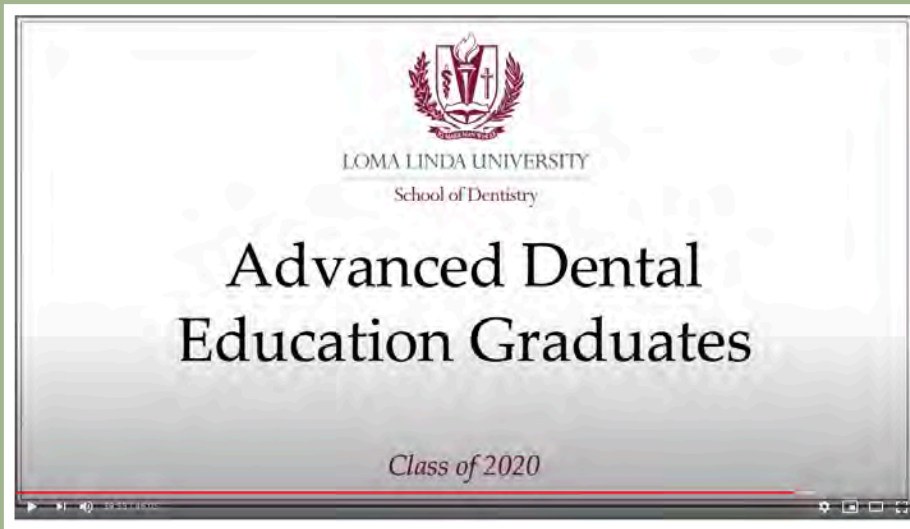
Navuen Sandra Alamawi
Western Society of Periodontology Award cum laude

To my kids, my husband, my family & every person who has a dream & refuses to give up. This is for you. Persevere.



Nauman Ahmad Bajwa

Lots of people sacrificed their dreams to make mine come true. Love you all.



A closer look at the 30 graduates from LLUSD's seven advanced dental education programs pictured on the panel below can be viewed online in pages from the 2020 LLU Conferring of Degrees book by clicking on the following url:

<https://tinyurl.com/49amr92d>



Richard H. Hart, MD, DrPH
President



LOMA LINDA UNIVERSITY
School of Dentistry
Advanced Education Class of 2020



Robert Handysides, DDS
Dean

Program Directors



Tory Silvestrin, DDS, MSD, MSHPE
Endodontics



Jaime Lozada, DDS
Implant Dentistry



Jayini Thakker, DDS, MD
Oral & Maxillofacial Surgery



M. Toufic Jeiroudi, DDS, MS
Orthodontics & Dentofacial Orthopedics



Jung-Wei Chen, DDS, MS, MS, PhD
Pediatric Dentistry



Erik Sahi, DDS, MSD
Periodontics



Mathew Kattadiyil, BDS, MDS, MSc
Prosthodontics

Master of Science



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Jamie Kim, DDS, MS
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Tiffany Lu, DMD, MS
Orthodontics & Dentofacial Orthopedics



Darron Miya, DDS, MS
Orthodontics & Dentofacial Orthopedics



Ahmad Rasul, DDS, MS
Orthodontics & Dentofacial Orthopedics



Bryce Chun, DDS, MS
Periodontics



Joshua Lee, DDS, MS
Periodontics



Navid Sharif, DMD, MS
Periodontics

Master of Science in Dentistry



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Endodontics



Barry Chiang, DDS, MSD
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Breanna Chow, DDS, MSD
Endodontics



Yasser Alazharani, DD, MSD
Implant Dentistry



Abhishek Batra, DDS, MSD
Pediatric Dentistry



Mona Doust, DDS, MSD
Pediatric Dentistry



Vera Kenderian, DDS, MSD
Pediatric Dentistry



Ali Alqalhtani, BDS, MSD
Periodontics



Duiji Alazemi, BDS, MSD
Prosthodontics



Ryan Becker, DDS, MSD
Prosthodontics



Zachary Mursic, DDS, MSD
Prosthodontics

Postdoctoral Certificate



Qiao Fang, MB
Implant Dentistry



Hung-Chi Liao, DDS
Implant Dentistry



Sunee Limmeechokchai, DDS
Implant Dentistry



Michael Pace, DDS, MD
Oral & Maxillofacial Surgery



Parker Shiffer, DDS, MD
Oral & Maxillofacial Surgery



Matthew Streelman, DDS, MD
Oral & Maxillofacial Surgery



Meena Adami, DDS, PhD
Pediatric Dentistry



Saad Almujeel, BDS
Prosthodontics



Ramon Hernandez, DDS
Prosthodontics



Noozhan Karimi, DMD, MSD
Prosthodontics



LOMA LINDA UNIVERSITY
School of Dentistry

Registered Dental Assistant in Expanded Functions Graduates

Class of 2020



Jeri Fowler, director

The 13-member RDAEF Class of 2020 graduated July 6, 2020, following a three-week delay imposed by COVID-19 considerations.

Jeri Fowler, director of the RDAEF program says, "We are so very proud of our 2020 graduates! We applaud their strength, determination, and tenacity while maintaining excellent clinical skills during the challenging Covid pandemic. Building character is an understatement – they are heroes!!"



Leticia Alvarado, RDA



Phuoc Bui, RDA



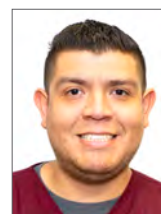
Francis Garcia, RDA



Leticia Glinsey, RDA



Jasmine Gonzales, RDA



Samuel Gonzalez, RDA



Kali Krueger, RDA



Elizabeth Macias, RDA



Paula Ramirez, RDA



Paulette Reynosa, RDA



Zayda Rodriguez, RDA



Leticia Sanchez, RDA



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Charlene Narita Matthew Narita Huy Nguyen



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President



LOMA LINDA UNIVERSITY

School of Dentistry
Class of 2020



Joshua Lee
LLU ASDA
President



Hung Nguyen
LLU ASDA VP



Jerdie Ale
Class President



Amanda St. Hilaire
Spiritual VP

International Dentist Program



Kitesh Patel
LLU ASDA Anthony Pham Natanael Poenaru



Laila Abdelrahman Maria Isabel Acherman Harry Adeghe Habib Adib Faezeh Alidousti Shahraki Yasir Alsarraj ADEA



Jennifer Rebhan-Chan Jordyn Reikvam Marytza Rios Gonzalez



Noor Daras Grettel Delgado Esparza Manpreet Dev Marlin Duran Tamara Gater Nada Hanna



Katherine Saylor Jane Seo Slade Shepherd



Masih Rezaei Class Rep Nairy Sekayan Zhanna Shapavava



Iee Shin Jordan Smith Minsun Song Seung Song Patrick Stewart Ryan Stitzinger Marilyn Tago Luke Taylor Greer Thompson Anthony Traboulsi LLU ASDA, ADEA



Jessica Covarrubias Aaron Coyoca LLU ASDA Owen Cruz Lucas DiCiccio Fadi Eli Nathan Eshoie Jordan Evans Grant Foust Michael Gardner



Michael Henriksen SungHo Hong Kent Horsley Christie Jacques Jaeyeon Jeon Melissa Khoury Justin Kim Sang Hun Kim LLU ASDA Tokin Kim



LOMA LINDA UNIVERSITY

School of Dentistry
Class of 2020



Robert Handysides, DDS
Dean



Joanna Koo Gregory Lai Nicholas Lampasi Sean Leeper



Lee Miyauchi LLU ASDA Andrew Moreno Jacob Mursic Cyntoia Nandy LLU ASDA



Natasha Vega-Valbuena
Clinic VP



Eric Stratton
Communications VP
LLU ASDA, AGD



Jennie Caldwell
Social VP



Kyle O'Connor Lorin Ong Philip Paik

International Dentist Program



Ethar Al Wazeer Nauman Bajwa Anusha Bitra Andres Casallas Anne Charlie So Hyun Chung



Jesse Pollom Yasmine Puentes Arian Ramos



Shweta Jain Swapnil Kadam Youstina Mekhael CDA Firoozeh Zahra Mohamdzadeh Lily Neskin Veena Raja



Daniel Salazar Sebastien Salzmam Lauren Santos



Nancy Maged Sidarous Mohita Sinha Salar Zeinali Gelabi



Yen Cheng Shih Joseph Shim Andrew Shin



Aaron Tran Clayton Tran Eugen Tutunaru Bo Ram Um Robert Wagner Brittany Watu LLU ASDA George Wong Dillon Yap Andrew Yoon



Navuen Alamawi



Adelle Anderson



Laura Aviles Garcia



Jessica Bolanos



Kaila Bolinger



Sunshine Bolinger



Albert Briano



Adrienne Carillo



Jessica Chamunas



Rachel Covarrubias



Monina De Jesus



Daniel Diaz



Tiffany Doan



LOMA LINDA UNIVERSITY

School of Dentistry

Dental Hygiene Class of 2020



Hanna Dougherty



Noe Garcia



Jessica Geronimo



Madeleine Gonzalez



Sandra Haddad



Richard Hart, MD, DrPH
President



Robert Handysides, DDS
Dean



Kristi Marshall, MA, RDH
Chair



Heera Kang



Meghan Kuhn



Sabine Merville
Class President



Dannon Hughes
Executive VP



Lucile Saint Martin
Spiritual VP



Catalina Hannah
Social VP



Trisha Voto
SADHA



Emily Laborde



Christian Mata-Padilla



Selena Monjaraz-Pantoja



Heidi Morales



Christina Moran



Kevin Moreno



John Perez



Miriam Perez



Sara Rad



Paola Sauza



Aireana Smith



Bryan Soe

STUDENT AWARDS

Student Achievement Awards 2020

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

Academy of Dentistry International Student Servant Leadership Award

Lucas DiCiccio, DDS'20

Academy of General Dentistry Award

Eric Stratton, DDS'20, Trent Gillard, DDS'20

Academy of Operative Dentistry Award

Sean Leeper, DDS'20

Academy of Osseointegration

Trent Gillard, DDS'20

ADA Foundation Colgate Student Research Recognition Award (recognized D3 year)

Ellin Choi, DDS'21

American Academy of Esthetic Dentistry

Matthew Freen, DDS'20

American Academy of Oral and Maxillofacial Pathology Award

Jennie Caldwell, DDS'20

American Academy of Oral and Maxillofacial Radiology Award

Liudmyla (Lucy) Kinai, DDS'20

American Academy of Oral Medicine Award

Jennie Caldwell, DDS'20

American Academy of Orofacial Pain Award

Katherine Saylor, DDS'20

American Academy of Pediatric Dentistry

Lee Miyauchi, DDS'20

American Academy of Periodontology

Kent Horsley, DDS'20

American Association of Endodontists

Andrew Yoon, DDS'20

American Association of Oral and Maxillofacial Surgeons Award

Michael Henriksen, DDS'20

American Association of Orthodontists Award

Samer Gazale, DDS'20

American College of Dentists, SoCal Section

Anthony Traboulsi, DDS'20

American College of Prosthodontists Award

Trent Gillard, DDS'19

American Student Dental Association

Joshua Lee, DDS'20

Boyko Award for Christ-like Service

Slade Shepherd, DDS'20

Brian D. Stone Memorial Award

Youngjoon Kim, DDS'20

California Dental Association Senior Award

Dimitri Haber, DDS'20, Youstina Mekhael, DDS'20

Delta Dental Student Leadership Award

Hung Nguyen, DDS'20

ICOI/Dentsply Pre-doctoral Student Achievement Award

Matthew Narita, DDS'20

International College of Dentists Student Leadership Award

Marytza Rios Gonzalez, DDS'20

International College of Dentists Student Humanitarian Award

Harry Adeghe, DDS'20

LLU Center for Dental Research Basic Science Award (D2)

Matthew Gotaas (D2), DDS'22

LLU IDP Fixed Prosthodontics Award

Nairy Sekayan, DDS'20 (IDP)

LLU IDP Professionalism Award

Andrew Felipe Casallas, DDS'20 (IDP)

LLU IDP Removable Prosthodontics Award

Shweta Jain, DDS'20 (IDP)

National Association of Seventh-day Adventist Dentists

Jerdie Ale, DDS'20, Kevin Moreno, BS'20 (DH)

Oesterling-Wical Removable Prosthodontics Award

Ellen Chun, DDS'20

Omicron Kappa Upsilon (OKU) Awards – DDS'20

Matthew Green, Anthony Traboulsi, Kent Horsley, Jordan Smith, Andrew Yoon, Luke Taylor, Michael Henriksen, Marytza Rios Gonzalez, Ellin Choi, Clayton Tran, George Wong, George Messiah, Shweta Jain (IDP), Mohita Sinha (IDP), Nairy Sekayan (IDP)

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

Kevin Jahng, DDS'21

Pierre Fauchard Academy Award

Clayton Tran, DDS'20

President's Award

Matthew Green, DDS'20

Prince Award

Jerdie Ale, DDS'20

SCADA Dentsply Student Clinician (D4)

Brittany Watu, DDS'20

Service Learning Awards

Catalina Hannah, BS'20 (DH)

Southern California Academy of Oral Pathology Award

Anthony Traboulsi, DDS'20

Southern California Society of Dentistry for Children Award

Ellin Choi, DDS'20

Western Society of Periodontology Award

Luke Taylor, DDS'20

Wil Alexander Whole Person Care Award

Luke Taylor, DDS'20

Wilfred A. Nation Award

Aamenda St. Hilaire, DDS'20

Dental Hygiene class of 2020 student awards

American Association of Public Health Dentistry

John Perez

Bates Award

Adelle Anderson

CDHA California Dental Hygienists' Association

Trisha Voto

Clinician's Award

Dannon Hughes

Dean's Award

Sandra Haddad

Klooster Humanitarian Award

Monina De Jesus

Middleton Award

Lucile Saint Martin

Mitchell Award

Sabine Merville

NASDAD Award

Kevin Moreno

Service Learning Award

Catalina Hannah

Sigma Phi Alpha Award

Adrienne Carillo, Rachel Covarrubias, Hanna Dougherty, Sandra Haddad

Western Society of Periodontology Award

Navuen Alamawi

2020 Honors Program Recognition

Graduates recognized for Elective Program completion

Brittany Watu

Dental Education: Division of General Dentistry
Honors Program

Sebastien Salzmann

Dental Education: Periodontics Honors Program

Noor Daras

Endodontic Honors Program

Katherine Saylor

Implant Honors Program

Liudmyla Kinal

OMFR Honors Program

Jennie Caldwell

OMFR Honors Program

George Wong

OMFS Honors Program

Michael Scott Henriksen

OMFS Honors Program

Kent Horsley

Ortho Honors Program

Lucas DiCiccio

Ortho Honors Program

Samer Gazale

Ortho Honors Program

Marytza Rios Gonzalez

Pediatric Dentistry Honors Program

Mohita Sinha

Pediatric Dentistry Honors Program

Ellin Choi

Research Honors Program

Spencer Gibbs

Research Honors Program

Trent Gillard

Research Honors Program

Lee Miyauchi

Research Honors Program

Luke Taylor

Research Honors Program

Clayton Tran

Research Honors Program

Brittany Watu

Research Honors Program

2021 RDAEF Expanded Duties Program

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

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

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

Financial Aid: Loma Linda University Continuing Dental Education is now offering funding available to qualified individuals through the **"Sallie Mae Smart Option Student Loan"** program. These are low interest student loans that offer choices between 3 repayment options. Apply online and it only takes approximately 15 minutes to get a credit result. Please visit the Sallie Mae website for more information.

Module 1

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

July 6, 2021 - Sept. 26, 2021 (19 class sessions)

July 6, 8, 11, 18, 20, 22 / Aug. 1, 3, 5, 15, 17, 19, 29, 31

Sept. 2, 12, 14, 16, 26, 2020

Module 2

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

Sept. 28 - Dec. 19, 2021 (24 class sessions)

Sept. 28, 30 / Oct. 10, 12, 14, 24, 26, 28 / Nov. 7, 9, 11, 14,

16, 18, 21, 23, 30 / Dec. 2, 5, 7, 9, 12, 14, 19, 2021

Module 3

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

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

Jan. 4, 2022 - May 15, 2022 (30 class sessions)

Jan. 4, 6, 9, 16, 18, 20, 30 / Feb. 1, 3, 13, 15, 17, 27

March 1, 3, 13, 15, 17, 27, 29, 31 / April 3, 12, 14, 24, 26, 28

May 3, 5, 15, 2022

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

To register call LLUSD Continuing Education Ph: 909-558-4685 | F: 909-558-0835 or go to dentistry.llu.edu/rdaef



LOMA LINDA UNIVERSITY
School of Dentistry

Dental Waterline Testing Service (DWTS) and Sterilization Assurance Service (SAS)

Dental Waterline Testing Service (DWTS) has been in operation since 2000. We evaluate microbial contamination of dental water lines and are actively involved in research on waterline biofilm removal and treatment methods. Many dental offices, universities, veterans hospitals, and medical/dental centers in over 43 states use our service for monitoring the quality of their dental water lines.

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

- The Standard Method 9215D (membrane filter method) of the American Public Health Association (APHA) is used to examine waterline microbial contamination.
- Detect heterotrophic plate count (HPC) bacteria counts up to 2,000 CFU/mL.
- More than 20 years of experience.
- Free consultations with our experienced staff
- All-inclusive insulated test kits contain sterile sample vials, ice packs, and detailed instructions.
- Test reports are accessible through the Online Customer Portal after seven days.
- Local customers may deliver samples directly to our research laboratory.

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

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

- More than 20 years of experience.
- Two testing options are available to help you budget for your infection control requirements.
- Return envelopes or prepaid envelopes are included based on your choice.
- Access test results through Online Customer Portal after seven-day incubation period.
- Certificates of Participation are available for a nominal fee.
- Spore test failures are reported by phone or email the same day samples are analyzed.
- Class V integrators for steam sterilizers are available. The combined use of spore tests, and STEAMPlus Integrators provide early detection by visually confirming the performance of your sterilizers.

Prepaid return package labels are available to order.



LOMA LINDA
UNIVERSITY
School of Dentistry

Dental Waterline Testing Service and Sterilization Assurance Service Order Form

Date _____
 Name (Last) _____ (First) _____
 Office name _____ E-mail _____
 Contact person _____ E-mail _____
 Address _____ City _____ State _____ Zip _____
 Phone () _____ Fax () _____

Sterilization Assurance Service

Customer ID# (current customers) _____

Sterilizer (type/model/serial #) _____

(Supplies for each sterilizer must be kept separate for ID purposes.)

Steam _____ Chemical Vapor _____ Dry Heat _____

Basic package (1) One test strip and one control strip per test (2) Return envelopes (3) Access results online (4) Failure notification by phone or email

Price	Quantity	Total
\$89/12 tests	_____	\$ _____
\$129/24 tests	_____	\$ _____
\$169/52 tests	_____	\$ _____
Optional: Certificate of participation - \$12/each		\$ _____
S&H for each package - \$15		\$ _____

Intensive package (1) Two test strips and one control strip per test (2) Prepaid return envelopes (3) Certificate of Participation (4) Access results online (5) Failure notification by phone.

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

Class V Integrator for Steam Sterilizer (New)

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

<https://tinyurl.com/y7mv9v3y>

Dental Waterline Testing Service

Customer ID# (current customers) _____

Tests	Price/Each	# of Tests	Total
3	\$30	_____	\$ _____
4-8	\$27	_____	\$ _____
9-12	\$25	_____	\$ _____
13-25	\$23	_____	\$ _____
26-50	\$22	_____	\$ _____
>50	\$20	_____	\$ _____

Optional: Certificate of Participation - \$12/each \$ _____

- A foam box, ice packs, sample vials, and instructions are included.

Shipping & Handling

Priority Mail – starting at \$15 per box

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

(Prepaid return package labels are available to order.)

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

Charge: Total \$ _____  

Name on card _____

Card number _____

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

Mail to:

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

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

FAX: (909) 558-0307

E-mail: sas@llu.edu

LLU Homecoming Student Research Poster Presentations

During LLU Homecoming 2020, 80 students presented their research on posters for table a clinic competition that was assessed by 12 judges.

This annual Homecoming event fosters the sharing of students' research efforts with their peers and alumni and demonstrates the support of LLUSD administration for dental student research

that promotes critical thinking and lifelong learning.

Ordinarily the winners selected and represented on these pages would have gone on to compete against student research presentations from other California dental schools at the annual California Dental Association meetings in Anaheim. But this year CDA was cancelled in the effort to limit the spread of COVID-19.



Backed by mostly dental student research poster presenters, 10 of 12 research poster judges occupy the front row (L-R): Steven Powell, DDS'87, assistant professor; Natalie Hohensee, DDS'08, MS, associate professor; Mathew Kattadiyil, BDS, MDS, MS, director, Advanced Dental Education Program in Prosthodontics; Manoochehr Parsi, DMD, associate professor; Yiming Li, DDS, PhD, MSD, associate dean, Research; So Ran Kwon, DDS, MS, PhD, MS, director, Student Research; Gina Roque-Torres, DDS, MSc, PhD, assistant professor; Kitichai Rungcharrassaeng, DDS, MS'98, MS'08, professor; Yoon-Jeong Kim, DDS, MS, MS'06, chair, Department of Periodontics; Amelia David, BDS, MS'19, assistant professor



Judges (L-R): Natalie Hohensee, DDS'08, MS'19; Yiming Li, DDS, MSD, PhD; and Steven Powell, DDS'87



Judges (with notepads): Manoochehr Parsi, DMD and Mathew Kattadiyil, BDS, MDS, MS

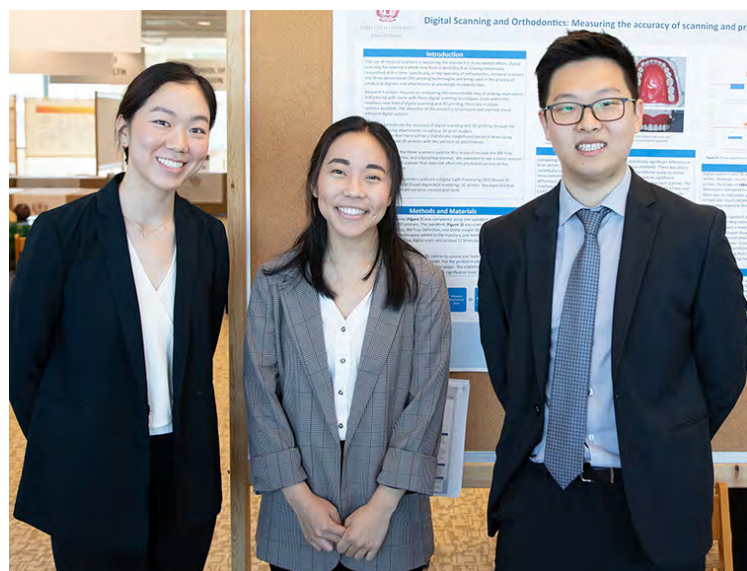


Dentistry, 1st Place (Clinical Category)

Authors: *Jerjes Qoborsi, Shant Oroojian, Jason Bajwa*

Digital Imaging Filters and Their Effect on Detecting Interproximal Dental Decay

Mentors: Dr. Dwight Rice, Dr. Gina Roque-Torres



Dentistry, 2nd Place (Clinical Category)

Authors: *Grace Moon, Krista Min, Junghun (Fred) Choi*

Digital Scanning and Orthodontics: Measuring the accuracy of scanning and printing methods

Mentors: Dr. Roberto Savignano, Dr. Joseph Caruso

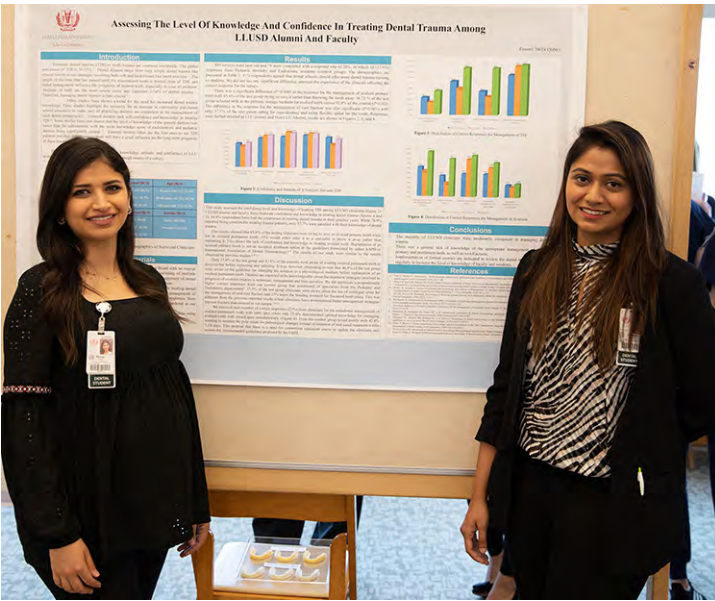


Dentistry, 3rd Place (Clinical Category)

Authors: *Christopher Chan, Suzie Lee, Liliana Popova, Nina Khanna*

Orthodontic Treatment as it Relates to Patients with an Increased BMI

Mentor: Dr. Gina Roque-Torres



Dentistry, 1st Place (Community Category)

Authors: *Noor Daras, Mohita Sinha*

Assessing the Level of Knowledge and Confidence in Treating Dental Trauma among LLUSD Alumni and Faculty

Mentors: Mr. Udochukwu Oyoyo, Dr. Samah Omar

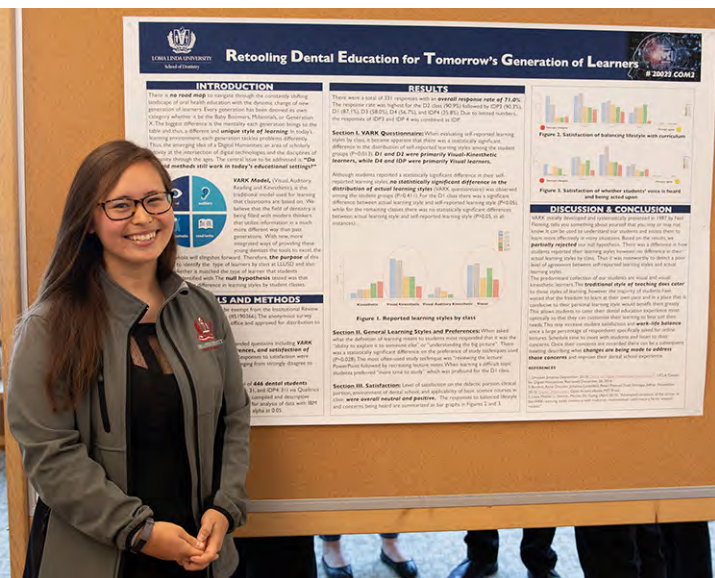


Dentistry, 2nd (Community Category)

Authors: *Erica Lopez, Purin Chirachevin, Alex Bullock*

Revisiting Dental Hygiene and Dental Students' Knowledge and Perception of Fluoride Use in Dentistry

Mentors: Dr. Perry Burtch, Dr. Yooseok Shin, Dr. Tina Tian, Dr. Baek II Kim, Mr. Udochukwu Oyoyo, Dr. Yiming Li, Dr. So Ran Kwon



Dentistry, 3rd (Community Category)

Authors: *Alyson Drew, (not pictured: Angela Chan, Sang Hun Kim, Joshua Lee, Lee Miyauchi, Anthony Traboulsi)*

Retooling Dental Education Through the Lens of Students

Mentors: Dr. Vincent Chee, Mr. Udochukwu Oyoyo, Dr. So Ran Kwon

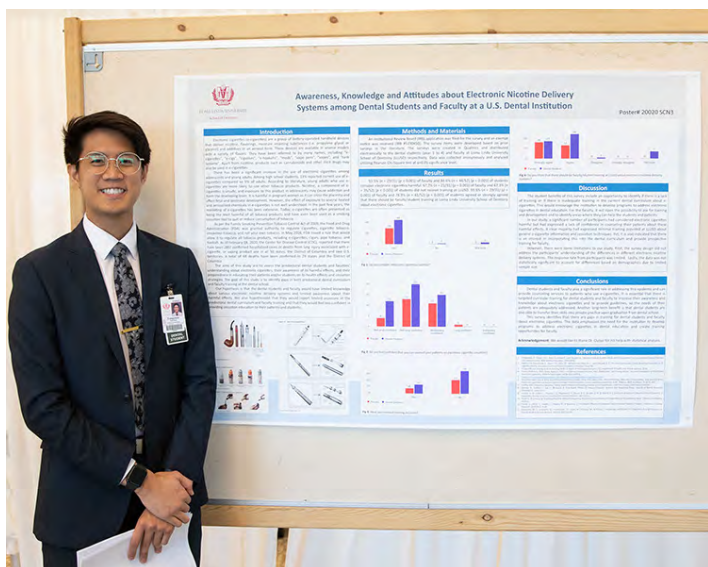


Dentistry, 1st Place (Scientific Category)

Authors: *Nicole Mahboubian, Jeffrey Kendall, Christine Han, Shawn Liu, Yeganeh Amini, Isaac Covarrubias*

The Effect Different Glide Path Preparations Have on Final Root Volume

Mentors: Dr. Gina Roque-Torres, Dr. Tory Silvestrin, Dr. Justin Wu, Dr. Leif Bakland



Dentistry, 2nd Place (Scientific Category)

Author: *Jonathan Tangunan*

Awareness, Knowledge & Attitudes about Electronic Nicotine Delivery Systems among Dental Students & Faculty

Mentors: Dr. Jeffery Pascal, Dr. Anupama Grandhi



3rd Place (Scientific Category)

Authors: *Angela Chan, (not picture: Hung Nguyen & Marilyn Tago)*

Effect of Green Tea on Plaque Glycolysis Evaluated by Modified Plaque Glycolysis Method (PG)

Mentor: Dr. So Ran Kwon

LLU Homecoming poster presentations—dental hygiene



Research poster judges front the mostly dental hygiene student research poster presenters.



1st Place (Clinical Category)

Authors: Rachel Covarrubias, Navuen Alamawi, Catalina Hannah, Sandra Haddad, Madeleine Gonzalez

Using Botox to Treat TMD and Bruxism - The Dental Professional Perspective

Mentors: Mrs. Shelley Hayton, Mr. Udochukwu Oyoyo



2nd Place (Clinical Category)

Authors: Christina Moran, Jessica Geronimo, Monina De Jesus, Daniel Diaz

Aloe Vera Moisturizes the Mouth: Fact or Fiction?

Mentors: Mr. Udochukwu Oyoyo, Dr. So Ran Kwon



3rd Place (Clinical Category)

Authors: Sabine Merville, Trish Voto, Dannon Hughes, Sara Rad, Albert Briano

The Effectiveness of Blended Learning in a Dental Hygiene Radiology Laboratory Setting

Mentors: Mr. Udochukwu Oyoyo, Dr. Shelly Withers

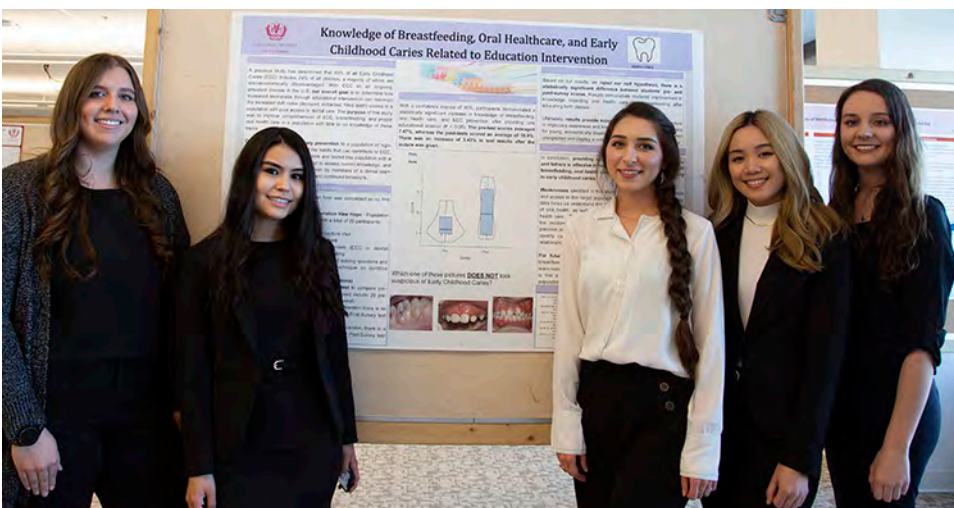


Honorable Mention (Clinical Category)

Authors: Kevin Moreno, Noe Garcia, Christian Mata-Padilla, Bryan Soe

Comparison of Blood Pressure Readings when Assessing Manual vs. Electronic Devices

Mentors: Mrs. Darlene Armstrong, Mr. Udochukwu Oyoyo

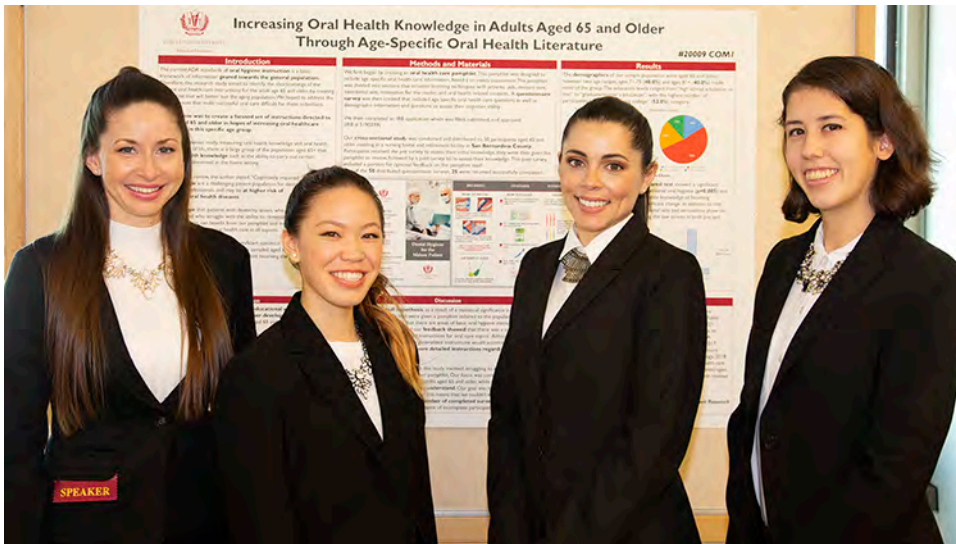


1st Place (Community Category)

Authors: Aireana Smith, Paola Sauza, Jessica Chammas, Adrienne Carillo, Meghan Kuhn

Knowledge of Breastfeeding and Oral Healthcare as Determinants of Early Childhood Caries

Mentors: Mr. Udochukwu Oyoyo, Mrs. Danielle Ellington



2nd Place (Community Category)

Authors: Sunshine Bolinger, Tiffany Doan, Kaila Bolinger, Adelle Anderson

Increasing Oral Health Knowledge in Adults Aged 65 and Older through Age-Specific Oral Health Literature

Mentors: Ms. Shirley Lee, Mr. Udochukwu Oyoyo, Dr. So Ran Kwon



3rd Place (Community Category)

Authors: Heidi Morales, Hanna Dougherty, Heera Kang, Jessica Bolaños, Selena Monjaraz

Clinician Awareness of Methemoglobinemia Occurrence with EMLA Periodontal Gel Use

Mentors: Ms. Patricia Lennan, Mr. Udochukwu Oyoyo



Honorable Mention (Community Category)

Authors: John Perez, Emily Laborde, Laura Aviles, Miriam Perez, Lucile Saint Martin

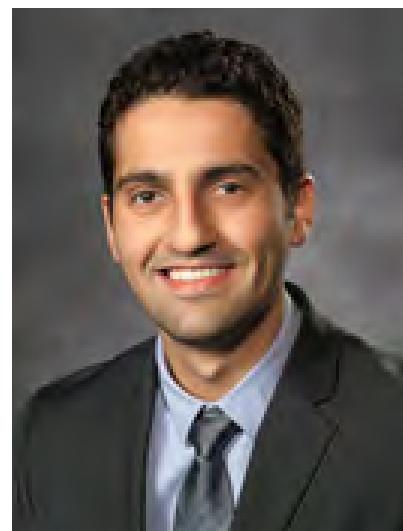
Can We Trust Interprofessional Assessment?

Mentor: Dr. Eun-Hwi Cho

NEWS

LLUSD Alumnus honored with 2020 *Journal of Prosthodontics* awards program

Rami Ammoun, BDS, DDS'15 (IDP), MS'19, assistant professor, Virginia Commonwealth University School of Dentistry, is the recipient of the 2020 *Journal of Prosthodontics* awards program for his article, "Influence of Tooth Preparation Design and Scan Angulations on the Accuracy of Two Intraoral Digital Scanners: An In Vitro Study Based on 3-Dimensional Comparisons," published in the March 2020 *Journal of Prosthodontics*.



Dr. Rami Ammoun

As first author, Dr. Ammoun will receive \$2,500 and a certificate. He will be recognized, along with his coauthors—Montry Suprono, DDS'07, MSD'11, director, Center for Dental Research; Charles Goodacre, DDS'71, MSD, distinguished professor, Department of Prosthodontics; Udochukwu Oyoyo, MLIS, MPH, assistant professor, Dental Education Services; Caroline Carrico, PhD, and Mathew Kattadiyil, BDS, MDS, MS'99, director, Advanced Dental Education Program in Prosthodontics—in an upcoming issue of the *Journal of Prosthodontics* and at the Virtual 2020 American College of Prosthodontists Annual Meeting.

Klaus Wolfram honored by the American Academy of Periodontology



Dr. Klaus Wolfram

The American Academy of Periodontology has honored Klaus Wolfram, DDS'71, MS'73, associate professor, Department of Periodontics, with its 2020 Award for Excellence in Teaching and Mentoring in Periodontics.

This award is presented to the periodontal educator at each institution who has demonstrated a commitment to excellence in providing education in the full scope of periodontics, and relays that enthusiasm to students.

The award reflects Dr. Wolfram's ongoing popularity as an instructor. In 2010 he received the International Dentist Program's Teacher of the Year award for the fifth consecutive year. And he was honored for his contributions as teacher and mentor, and for competence demonstrated in serving his profession, with the 2014 School Distinguished Service Award.

NEWS

Matthew Gotaas receives CDR Basic Science Award

Matthew Gotaas, dentistry class of 2022, received a \$500 certificate with the CDR Basic Science Award on March 4, 2020, presented to him by Dean Rob Handysides, DDS'93, and So Ran Kwon, DDS, MS, PhD, MS, director, Student Research, and Susan Richards, DDS'84, associate professor, OMFS.

This award, sponsored by the LLU Center for Dental Research, has the following requirements:

To a sophomore student who has shown the highest academic achievement in the pre-clinical basic sciences. Traditionally, the award recipient has the highest composite rank for the D1 basic sciences – anatomical sciences, biochemistry, physiology and microbiology.



L-R: Drs. Susan Richards, Robert Handysides, and So Ran Kwon celebrate with class of 2022 dental student Matthew Gotaas.

Udochukwu Oyoyo and Shelley Hayton awarded Student Research Mentors of the Year

Udochukwu Oyoyo, MLIS, MPH, assistant professor, and Shelley Hayton, BS'82 (DH), assistant professor, have been selected as recipients of the annual Mentor of the Year Award by the Center for Dental Research Student Research Program.

Each year the Student Research Program recognizes faculty members (one from the Dental Hygiene program and one from the Doctor of Dental Surgery program) who have demonstrated a longstanding commitment to mentoring student researchers that align with LLUSD's vision and mission.

Selections are based on the positive research experiences of the mentors' students including the impact of mentorship on their subsequent professional and personal success.

Criteria include but are not limited to their

- record of high-quality mentoring provided to students over the course of a minimum of three years.
- encouraging students to present at regional and national meetings as well as the annual Homecoming Convention.
- publications in peer reviewed journals with students as co-authors.
- application for and/or earned grants or awards to support research/creative endeavors with students.
- number of student votes received.



Mr. Oyoyo, stands with 2019 awardee, Clyde Roggenkamp, MA, DDS'70, MSD, MPH, associate professor.



Ms. Hayton celebrates with 2019 awardee, Shelly Withers, BS'02 (DH), MS'07, PhD, associate professor.

NEWS

LLUSD graduate participates in virtual SCADA 2020

Recent LLUSD graduate Brittany Watu, DDS'2020, represented the School of Dentistry at the 61st annual Dentsply Sirona and the American Association for Dental Research (AADR) program held June 2020, under special circumstances. Despite COVID-19 restricting public events, students from American dental schools participated in the research competition virtually.

This year Brittany Watu represented LLUSD at the virtual SCADA competition with her research entitled "Effect of Gold Coating on Oxidation Potential of Titanium-Oxide Nanofibers." Her co-investigators were classmates Ellin Choi, DDS'20, and Clayton Tran, DDS'20. Their mentors were Christopher Perry, PhD, assistant professor, Basic Sciences (School of Medicine); Ryan Sinclair, PhD, MPH, associate professor, Earth and Biological Sciences (School of Public Health); Kevin Nick, PhD, associate professor of Geology (School of Medicine); and So Ran Kwon, DDS, MS, PhD, MS, director, Student Research (LLUSD).

All US dental schools were invited to nominate a student to participate in the research competition in one of two categories – Clinical Science and Public Health Research or Basic and Translational Science.

The participants submitted a complete portfolio for review to an international panel of judges, including an electronic copy of his/her research poster, a slide presentation, and a video of their oral presentation. While the networking opportunity was curtailed in 2020, students interacted virtually and had the opportunity to showcase their work and gain valuable input as they developed and virtually presented their research.



Dr. Brittany Watu in graduation regalia, above, and below presenting her research to the SCADA virtual conference in June.



Effect of Gold Coating on Oxidation Potential of Titanium-Oxide Nanofibers

INTRODUCTION

Nanomaterials (NMs) are emerging as a new therapeutic strategy for the treatment of bacterial infections and the prevention of biofilm formation. These NMs offer many advantages over traditional therapies, including reduced toxicity and a lower risk to develop resistance by bacteria. Titanium dioxide (TiO₂) nanoparticles and nanofibers (NFs) are known photo-catalysts that activate and promote hydroxyl formation, which essentially initiates oxidation (Fig 1). **Gold nanomaterials** have received widespread interest because of their highly controlled optical properties potency as antimicrobial agent against multi-drug-resistant bacteria.

The **purpose** was to first, synthesize titanium oxide nanofibers from titanium oxide particles, second, to coat them with gold nanoparticles, and lastly, compare the oxidation potential of the titanium oxide nanofibers to that of the gold coated titanium oxide nanofibers.

The **null hypothesis** tested was that there would be no difference in oxidation potential of TiO₂ NFs and Au-coated TiO₂ NFs.

Figure 1. Long Term Goal of Project

MATERIALS & METHODS

Quantification of Oxidation Potential:
Dye solutions (9 mL) were stirred in glass vials with the addition of 1 mL of the following (Fig 2):

- NC Dye solution
- TiO₂ NFs: TiO₂ NFs (0.5µg/mL)
- Au-TiO₂ NFs

Absorbance was monitored over 4 time periods:

- T₁ (immediately after addition of reagent)
- T₂ (post-30 min)
- T₃ (post-90 min)
- T₄ (post-120 min)

At each time period 1 mL was transferred to tubes and centrifuged at 7,500 rpm for 25 min. A plate was then plated with 150 µL of respective dye and reagent mixture.

Statistical Analysis:
Kruskal-Wallis test was used with adjustments for multiple comparisons where appropriate. Tests of hypothesis were two-sided with $\alpha=0.05$.

RESULTS

Characterization of TiO₂ NFs and Au-coated TiO₂ NFs (Fig 3-6):

Figure 3. X-ray diffraction of TiO₂ NFs

Figure 4. SEM of TiO₂ NFs

Figure 5. AFM image of Au Clusters

Figure 6. TEM of Au-coated TiO₂ NFs on ultrathin carbon support

Table 1. Tartrazine Degradation over Time by Group

Yellow Dye (µM)	MEAN (SD)		
	NC	TiO ₂ NFs	Au-TiO ₂ NFs
Post-T ₁ (T ₁)	49.24 (1.06)	43.14 (0.34)	41.81 (0.34)
Post-30 min (T ₂)	46.16 (0.60)	34.22 (0.95)	30.97 (0.71)
Post-90 min (T ₃)	45.92 (1.28)	18.56 (0.44)	11.76 (0.40)
Post-120 min (T ₄)	46.38 (0.60)	10.44 (0.58)	7.94 (0.07)

Plot of first order decay of tartrazine dye under 365 nm UV irradiation for TiO₂ NFs and gold coated NFs, respectively (Fig 7). The order of activity based on first-order rate constants are: Au-TiO₂ NFs, 4.6 x 10⁻¹ min⁻¹ > TiO₂ NFs, 2.8 x 10⁻¹ min⁻¹. At 120 min, there was a significant difference among the three groups (p<0.05).

Figure 7. Plot of first order decay of tartrazine dye

DISCUSSION & CONCLUSION

Based on the results, we **conclude** that we were successfully able to synthesize the titanium oxide nanofibers, coat them with gold, and compare the oxidation potential of the titanium oxide nanofibers to that of gold coated titanium oxide nanofibers.

Our null hypothesis was **rejected** because there was a significant difference in oxidation potential between titanium oxide nanofibers and gold coated titanium oxide nanofibers. Gold coating enhanced the oxidation potential, and resulted in a 1.6 times faster degradation of the dye.

Our study results are in accordance with other studies that showed that gold nanomaterials have unique optical properties. This is from gold's plasmonic resonances that strongly absorb in the visible and near infrared region. The major innovation of our study was to use synthesized titanium oxide nanofibers as a 3-dimensional scaffold to carry the gold nanoparticles, so that both materials could exhibit synergistic effects.

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NEWS

So Ran Kwon receives IADR Innovation in Oral Care Award

So Ran Kwon, DDS, MS, PhD, MS, director, Student Research, was the recipient in May of one of three 2020 Innovation in Oral Care Awards sponsored jointly by the International Association for Dental Research (IADR) and GlaxoSmithKline (GSK), funded exclusively by GSK.

Dr. Kwon's award is based on her exploration of "On Demand Anticariogenic Activity of 3D Printed Composite Discs Infused with Gold Doped Titanium Oxide Nanofibers (Au-TiO₂ NFs)" with co-investigators Roberto Savignano, MSc, PhD, assistant professor, Dental Education Services, and Christopher Perry PhD, assistant professor, Basic Sciences.

The Award is accompanied by \$50,000 from an unrestricted GlaxoSmithKline grant administered by IADR.

The IADR mission is to advance research and increase knowledge for the improvement of oral health worldwide. It does so through its Divisions and Sections as well as in partnership with international dental associations, industry, health agencies, and scientific and educational professional



Dr. Kwon is bracketed by Dean Robert Handysides, DDS'93, and Yiming Li, DDS, MSD, PhD, associate dean, Research.

organizations. These innovation awards offer opportunities for investigators to conduct dental research that will have a direct impact on public oral health.

2021 Student Research Mentor of the Year Award

During LLUSD's 2021 virtual Alumni Student Convention, Student Research Mentor of the Year Awards were presented to Brian Goodacre, DDS'13, MS'17, associate professor, and Eun Hwi Cho, DDS'93, assistant dean, Educational Quality and Outcomes.

Selected by student vote, two LLUSD faculty members are honored each year during Homecoming with the Award that recognizes those who have demonstrated a longstanding commitment to mentoring student researchers consistent with LLUSD's vision and mission.



Drs. Eun Hwi Cho and Brian Goodacre

Donald Lee Peters: a life of service

Donald Lee Peters, DDS '61, MS'69, PG'74, was born in Shields, Michigan, on June 17, 1929. One of ten siblings, he early exhibited interest and talent in the three-dimensional art of wood whittling.

Dr. Peters graduated from high school in 1947, along with 27 classmates, in the small town of Merrill, Michigan. He completed radiological technology in 1950, just in time to be drafted into military service by Uncle Sam.

Family members report that Dr. Peters rarely spoke about his dangerous two years of service in the Korean Conflict. Initially he served in a Pusan field hospital, an evacuation hospital for the wounded headed for the United States; later, on Koje Island, he treated prisoners of war—roughly 170,000 of them crowded onto the 150-square mile island off Korea's southeast coast. One of his technology colleagues at the 64th field hospital recalls the hospital setting: "If you watch M.A.S.H. TV series, that's what we did." Providing treatment for POWs became a battleground for the hearts and minds of POWs, many of whom remained dangerous combatants. In this treacherous community, Dr. Peters never knew which of his loosely guarded sick or wounded patients was collecting weapons to carry out orders smuggled from enemy command.

Having survived the war, Dr. Peters completed a bachelor's degree in medical technology at Loma Linda University. Most likely it was a dentist for whom he worked that encouraged him to consider dentistry. He found his calling and graduated with LLUSD's class of 1961. Four years later (1965), he joined the faculty of his alma mater, and soon enriched his teaching by becoming the first dentist to graduate from the School's advanced oral pathology program.



Dr. Donald Peters

With the role of endodontics in dental care expanding, Dr. Peters sought to fortify that program as well, earning in 1974 a certificate from the School's Advanced Specialty Education Program in Endodontics. In 1973 he succeeded in recruiting Leif K. Bakland, DDS'63, a professor of endodontics at Harvard School of Dental Medicine, to become the first full-time endodontics faculty member at LLU.

Dr. Peters demonstrated the commitment to service that has characterized the LLUSD ethos. He coordinated mission trips to Guatemala (1966-71) where he enjoyed contributing his expertise. Seminars also took him to East Africa, Thailand, Taiwan, Manila, Philippines, Guam, and Saipan. One memorable trip he took was with Thor Bakland, DDS'62, to East Germany and Czechoslovakia (before the wall came down), where they presented dental lectures to colleagues who were not free to travel. On one such trip in 1993, he presented lectures and procedure demonstrations at several dental clinics in Moscow. Staying in an apartment close to the Kremlin, Dr. Peters and his wife Marilyn heard the gun shots fired during the Russian



Dr. Peters mentors a student in the LLUSD endodontic clinic.



Dr. Peters poses with some of his stellar wildfowl recreations.

constitutional crisis that deconstructed the USSR. They were relieved to return safely home.

Dr. Peters was instrumental, along with Arthur Spent, DDS'61, and Dr. Leif Bakland, in setting up a specialty practice for faculty endodontists. Several others, including Steve Morrow, DDS'60, and Robert Handsides, DDS'93, participated in the practice that provided an opportunity for visiting scholars to pursue endodontics while participating in the department's research activities.

As clinic director and associate dean for Clinic Administration of the school, Dr. Peters is remembered with affection by colleagues. John Whittaker, BDS,'67, long-time LLUSD faculty member, says, "He made me feel welcome as a junior faculty lately arrived from New Zealand. I found him very supportive." Don's close friend, Gil Dupper, DDS'67, points to a sculptured mallard in the Dupper's kitchen, a reminder of Don's friendship. "When I was building my house, he asked me to supply him wood from the

structure. I gave him a piece of the beam, which he used to carve this bird."

His childhood pursuit of whittling was reawakened when Dr. Peters attended a bird carving exhibition show in San Diego, California, that featured carvings of shore birds, songbirds, birds of prey, and game birds. When he began entering his carvings in competitions and exhibitions, his skills earned him first, second, and third place ribbons from the Decoy and Wildfowl Carvers Association and the Pacific

Southwest Wildfowl Arts, Inc. In the process he employed what proved to be a fabulous use for worn out dental instruments and displayed his skill in representing form and function in wood.

The quality of his clinical skill is emphasized again by Dr. Gil Dupper: "When referring patients fearful of root canal treatment to Don, I could confidently say, 'If you aren't completely satisfied with his work, I'll make no charge for

your crown work.' The patient always returned content."

After retirement from LLUSD (full-time, 1991; part-time, 2008), Dr. Peters moved to Idaho where he lived until his final illness. He died in Loma Linda on August 3, 2020, predeceased by his son Alan (DDS '80), in 2007, and by his wife, Marolyn Pond, in 2018.



Dr. Peters and his wife, Marolyn enjoy dining during a cruise.

Survivors include five siblings, his daughter, Jeanette (Jon, MD'74) Kattenhorn; his grandchildren—Sara (Eric) Schilt, PA'10, Dana (Michael) Rhynus, DH'06, and Jordan (Mattie) Kattenhorn, MD'16—and four great grandchildren.

Douglass Roberts: restorative icon

Nearly sixty years ago, Douglass Roberts, DDS'66, MS'77, arrived at LLUSD from his origins in the American Northwest. The School of Dentistry became his professional home. He retired there in July 2012 after 46 years as a faculty member and administrator.

Dr. Roberts' impact on restorative dentistry at the School has been enormous.

A former student turned faculty colleague, said, "While no one is ever perfect and we all have difficulties in some areas, there are some people who are an almost perfect fit for the job. Dr. Roberts is hard-wired to do the very best at every single thing he does."

Dr. Roberts never intended to be a dentist. He completed high school at Upper Columbia Academy in Washington before arriving at Pacific Union College. Enrolling first for a concentration in science, he drifted through several majors: industrial arts, physics, chemistry, and history.

He spent the summer of 1962 as a college graduate with a 105-pound jackhammer drilling through eight to ten feet of decomposed granite, an excavation for a PUC swimming pool. That experience might have made more attractive the suggestion that he consider a career using a dental drill from an advisor with whom he



Dr. Douglass Roberts

was exploring preparation for medical technology and who told him plainly, "You don't want to be a med tech. Have you ever considered dentistry?" The ensuing discussion about prosthodontics as a career intrigued the student. "It was not a well thought out decision," he recalled, but it worked. After three years in college, Doug Roberts entered LLUSD's class of 1966.

During the summer of 1965, he joined other third-year dental students on a mission trip to Chiapas in southern Mexico. As a senior, he was honored with the fixed prosthodontics award and accepted the School's invitation to teach half time in its Department of Restorative Dentistry. Four years later Dr. Roberts was a full-time LLUSD faculty member.

Working in a department that covered so much of the dental curriculum and required the School's largest faculty roster, Dr. Roberts brought professional precision and calm to his appointment

as its chair from 1972 to 1977. During that time he completed a master's in restorative dentistry, "which indentured me to the School for five years," he noted wryly in conversation with people recognizing that his CV placed him at LLUSD for all of his professional life. He returned in 1999 to chair the department again, an appointment that continued until June 30, 2012. Throughout his chairmanship, he



Paul Richardson, DDS'72, MED, associate dean, Clinic Administration, introduces Dr. Roberts to his retirement gift: Delta Industrial 46-460 12-1/2-Inch Variable-Speed Midi Lathe

presided over twice monthly departmental meetings that were consistently attended by 30 to 40 faculty members.

Holding students to a high level of clinical performance, Dr. Roberts earned from them names such as “Re-do Roberts” and “Dougie Do Over.” They knew his standards were not negotiable. A steady stream of students passed in and out of his office daily; each benefitting from his attentive ear and professional counsel.

“Most of the stuff I used in lectures came from real life situations,” said Dr. Roberts. “Most of what I show are my failures. You learn from them—what worked, what failed, what options you had.”

In 45 years at LLUSD, Dr. Roberts witnessed changes in restorative dentistry. “Today’s options are greater,” he observed. “We’re fixing stuff instead of replacing it, [and] there’s more emphasis on aesthetics now.”

Dr. Roberts humorously dismissed a question about how he has coped with multiple tasks and challenging situations: “Lots of chocolate.”

Recognition for his profound contribution came when Dr. Roberts was honored with the School’s Distinguished Service Award in 2005 and the Alumnus of the Year Award in 2006. Engaged in conversation about his achievements, the modest professor typically would switch the subject to one or more of his departmental colleagues. “I have had awfully good people to work with,” he’d say.

Volunteer activities took Dr. Roberts to La Vida Indian Mission School in Mexico (July 1992), where his expertise was essential to the construction of a duplex for faculty and staff. It was apparent that he had mastered skills in just about any construction job—electrical, plumbing, cement forms,



Dr. Douglass and Marilyn Roberts

bricklaying. At home his hobbies included stained glass, furniture, and cabinetry. His grandchildren reveled in the wood toys he would build them (many of his friends are recipients of wooden bowls fashioned on his lathe). When members of the Victoria Company congregation determined to build a sanctuary, Dr. Roberts was a significant force in its Mountain View Avenue construction.

In 1966, Dr. Roberts earned a private pilot’s license. He was rated for instrument flying in 1978, achieved commercial and instructor status in 1979, and flew planes that included Cessnas, Pipers, and Bonanzas.

At his June 30, 2012, retirement dinner, Dr. Roberts’ colleagues noted his role modeling for students. Gary Golden, DDS’76, assistant professor, restorative dentistry, never forgot walking home on cloud nine after Dr. Roberts examined his student project and said, “Not bad!” Ben Grant, DDS, labeled him a “PDQ—a perfectionist, devoted, to quality.” And LLU President Richard Hart, MD, DrPH, said, “He has come by his desire for precision and excellence honestly,” declaring him “an icon of leadership.”

A rocking chair and a miniature wood model of a carpenter’s lathe created by Dr. Richardson seemed somewhat inadequate gifts for the departing chair. But then a surprised Dr. Roberts was presented with the unveiling of a Delta Industrial 46-460 12-1/2-Inch Variable-Speed Midi Lathe with a 46-463 Modular Bed Extension resulting in 42 inches between centers—the gift of LLUSD’s administrative team to their respected colleague.

Sadly, Dr. Roberts retirement was only to last until November 21 of 2020.

Elmer Kelln: a most organized life

Ninety-three-year old Elmer Kelln, DDS, was at home having coffee and apple fritters with his companions—Todd Murdoch, MBA, Ron Secor, MBA, and Lane Thomsen, DDS'65, at the end of September 2020. A week later, his friends received word that Dr. Kelln had died. "One of the smartest men I've ever met," says Ron Secor, former LLUSD associate dean of Financial Administration, who recalls Dr. Kelln's remarkable dispatch in committee. "We'd vote on an item, he'd dictate it immediately on a voice recorder, and we'd moved to the next item."

Dr. Kelln was born in Saskatchewan to Canadian farmers. After successive cyclones wiped out the family farm, he moved west with his parents in 1936 nearly a thousand miles by car to a dairy farm surrounded by orchards in Chilliwack, British Columbia.

The future dentist had nine years of Canadian schooling before heading to Auburn Adventist Academy in Washington state where the school principal pored over his transcript. Except for religion classes and American history, he had mastered all the subjects offered at the secondary school. He was definitely a candidate for the fast track. Dr. Kelln often remarked that he wasn't a typical carefree teenager. Anxious to complete his professional education, he spent two school years and three summers in college.

Still a teenager in 1945 when he graduated from



Dr. Elmer Kelln

Walla Walla College, Elmer packed a single suitcase and headed for dental school at the University of Nebraska. Except for a modest initial gift from his parents, he was on his own, hitchhiking the 1,400 miles to Lincoln Nebraska, thankful for three long-distance rides.

Banks weren't yet in the business of granting student loans. Young Elmer needed a job to pay tuition, board and room. Securing a night job as a hotel bell hop, he shared employment with a classmate. The two alternated late afternoon shifts with all-night shifts, and both graduated on time. During that very busy period, Elmer often spent Sabbaths on the campus of Union College.

Browsing through a yearbook on display in the men's dormitory, he spotted the picture of Jean Ackerman. He remembered her from summer camp—when they had been too young and shy even to talk to each other. Copying her address from the yearbook, he sent her a letter. An ensuing correspondence culminated in the couple's marriage in 1948. The next year

he received his dental degree, debt-free, and was soon running his own Chilliwack dental practice.

After nearly a decade in practice, Dr. Kelln moved with his wife and three children to the University of Minnesota in Minneapolis to expand his study of pathology. He later declared, "Every slide awakened the sense of discovery for me." A focus on inflammation and wound healing dominated the rest



Dr. Kelln received LLU teaching awards including Distinguished Faculty Lecturer, 1981, and Professor of the Year recognition in 1984.

of his career. With a master's in pathology, including a minor in oral pathology, academic dentistry was bidding

Joining the faculty of West Virginia University's then new medical/dental school in Morgantown, West Virginia, in 1966, Dr. Kelln taught students in medicine, dentistry, nursing, and other allied health professions.

In his next academic appointment (1966-68), Dr. Kelln crossed the country to administer LLUSD's advanced dental education courses in maxillofacial surgery, then located in Orange County Medical Center. Moving the program to Loma Linda two years later, Dr. Kelln taught oral pathology; and two years later he became LLUSD's associate dean for Academic Affairs, a position he held for 15 years.

Dr. Kelln's classroom expertise is legendary. "He's one of the best lecturers the School ever had," declares Lane Thomsen, a former student and faculty colleague. He could write on the chalkboard with both hands at the same time. He paused one day to observe a visibly ailing student, who explained that doctors had been unable to diagnose his illness. Dr. Kelln soon came up with a hallway diagnosis—Erythema Multiforme. "He saved my dental career and possibly my life," the student recalls.

In his administrative role, Dr. Kelln is remembered as "extremely well informed." Todd Murdoch, former associate dean for Financial Administration, says "Elmer was very structured. He knew the whole academic program." Dr. Thomsen remembers Dr. Kelln as "extremely organized. His desk was always clean. He got everything done on time." Then Dr. Thomsen adds, "Even when we went camping (multiple times), things were always neat—and he did all the cooking."

In his personal life, Dr. Kelln was a generous friend. When



Dr. Elmer and Jean Kelln at a Dean's Circle event with Dean Robert Handysides.

Ron Secor moved to Loma Linda, he told the dentist that he needed to take care of over-grown trees in his yard. The next day Dr. Kelln showed up with tools to assist in the tree trimming.

Dr. Kelln was organized in all aspects of life. Every August was devoted to a family adventure. He hooked a travel trailer to the car and headed out with his wife and children—Canada, Gettysburg, national parks. His daughter Lois Mikelson says, "By the

time I graduated from high school, I had been in almost all 50 states." Lois remembers sitting on the floor exploring books on the lower shelves of dad's office, mostly professional tomes, full of puzzling pictures. Dad was always ready to answer questions. "He encouraged us to ask questions," Lois says. "Yes, he was firm. Once he spoke, we didn't question. But he was fun. He made up songs; he told cowboy stories." Road trips continued later with grandsons, each of whom got one-on-one trips with Grandpa. In 1995, Elmer and Jean started another new chapter, assisting in the rearing of son Wayne's two young children.

Upon retirement, Dr. Kelln announced that he was going to have time to explore a lot of questions about God. Always vigorous in his discussions of faith, he was affirming in his final days saying, "It is well with my soul."

Family members mourning their loss include Jean, his wife of 71 years; his children: Myra Garner of Galveston, Texas; Wayne Kelln of Loma Linda, California; and Lois Mikelson of Lake Mills, Wisconsin; his grandchildren—Arienne Neumann, Adam McGhee, Hannah Alvarado, Andree Hostler, Laurel Kelln, and Taylor Kelln, seven "extended family" grandchildren—and seven great-grandchildren.

FOND FAREWELLS

LLU School of Dentistry mourns the loss of each passing alumnus and attempts to notify the School family of each departure. As a Christian institution, we look forward in faith to the day when there will be a great alumni reunion that brings us all together again.

With our condolences

Chester Banaag, DDS'89	January 1, 2021
Calvin Clark, DDS'66	January 24, 2021
Lawrence Day, DDS, MS'69	September 28, 2020
Leon S. Grabow, DDS'61	February 27, 2021
Jack W. Griswold, DDS'58	January 17, 2021
Weldon J. Hagen, DDS'57	December 15, 2020
Robert Huffer, DDS'62, MS'70	November 26, 2020
David L. Johnson, DDS'69	December 13, 2020
Elmer Kelln, DDS, MSD	October 7, 2020
Phyllis McCourry, BS'68 (DH)	August 18, 2020
Abraham Morikone, DDS'70	April 6, 2021
Howard A. Munson, Jr., DDS'65	February 2, 2020
Dwayne L. Nash, DDS'64	January 18, 2021
Aaron Perez, DDS'91	December 31, 2020
Donald Peters, DDS'61, MS'69	August 3, 2020
Douglass Roberts, DDS'66, MS'77	November 21, 2020
Michael Rodney Staker, DDS'13	January 18, 2021
Gary Theodore Wilson, DDS'63	December 6, 2020
Kirollos Zakhary, DDS'11, MD'14	November 6, 2020