

ROCK 'N' ROLL DENTISTS > 7

LANDESMAN'S TRIBUTE TO DR. REX INGRAHAM > 25

TRODENT

THE OFFICIAL ALUMNI PUBLICATION OF THE OSTROW SCHOOL OF DENTISTRY OF USC | FALL 2013



PORTAL TO THE FUTURE > 10-17

HOW OSTROW'S CURRICULUM IS TRANSFORMING TODAY'S STUDENTS INTO TOMORROW'S DENTAL LEADERS



PHOTO BY GLENN MARZANO

Incoming DDS '17 student Jonathan Nguyen gets by with a little help from his friend. The photogenic dental student—and his even more photogenic dental doppelganger—posed for pictures at this year's White Coat Ceremony. Nguyen says his best friend from high school made him the keepsake. On the back, his best friend wrote inspirational quotes like "A smooth sea never made a skillful sailor" and "Fall seven times, stand up eight" to remind Nguyen not to let the day-to-day pressures of dental school keep him from achieving his ultimate dreams.



L-R: Cynthia Young DDS '14, Kasra Tajik DDS '14, Christopher Fanelli DDS '15 & Vanessa Leewing DDS '14

STUDENT PERSPECTIVES 13

PHOTOS BY JOHN SKALICKY

TroDent cover models Cynthia Young DDS '14, Kasra Tajik DDS '14, Christopher Fanelli DDS '15 and Vanessa Leewing DDS '14 guide us through the Ostrow curriculum, year by year.

DEPARTMENTS

By the Numbers/Calendar **3**

Dean's Letter **5**

Image Gallery:
Part-Time Faculty Appreciation Dinner **6**

Image Gallery: Inaugural All-Star Awards/
DDS Class of 2015 Barbecue **9**

Secret Lives: Alexander Heatrice MS '16 **18**

Image Gallery: Class of '63's 50th Reunion **19**

Where Are They Now:
Brent Ward DDS '96, MD **20**

Memorials and Tributes **24**

Image Gallery: Friends of Dentistry Dinner **25**

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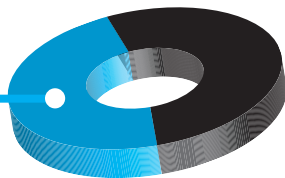
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\$2.82B/raised

\$6B/goal

Just three years into the Campaign for USC, the University has raised nearly half its original goal of \$6 billion, money it intends to put toward faculty recruitment, student financial aid, new buildings and research.



\$50M/raised

\$115M/goal

The Ostrow School set out to raise \$115 million, more than any other U.S. dental school in history. A year-and-a-half into its initiative, Ostrow has reached nearly 50 percent of its goal.

NUMBER
OF 1963
GRADS
WHO ARE
FACULTY

7

After 50 years, seven members of the Class of 1963 still walk the halls of the Norris Dental Science Center, working as faculty and making sure today's grads get the same quality of instruction they got a half-century ago.

See pics from their reunion on page 19.



\$25,000

Amount being raised by the Class of '57 to honor Dr. Rex Ingraham by commissioning a bust in his likeness as well as supporting his eponymous second-floor clinic. Help out by donating at tinyurl.com/rexingraham and checking the box for the USC Rex Ingraham Second Floor Clinic Renovation Fund.



52% male

48% female

It wasn't so long ago that dentistry was a male-dominated industry. But times have changed. The incoming DDS '17 class is nearly evenly split between the two genders.

CALENDAR

Friends of Dentistry Scholarship
DONOR

Friends of Dentistry Scholarship
RECIPIENT

**7
FEB**

FRIENDS OF DENTISTRY SCHOLARSHIP DINNER » Ostrow scholarship awardees and their Friends of Dentistry scholarship donors meet and eat at this annual dinner open to all Friends of Dentistry members. | Maxwell DeMille's Cicada Club, The Historic 1928 Art Deco Oviatt Building, 617 S. Olive St., L.A. | ostrow.usc.edu/alumni

**12
MAR**

RESEARCH DAY » Ostrow faculty and students share and inspire others with their scientific discoveries at one of USC's only days dedicated exclusively to research. | Galen Center, 3400 S. Figueroa St., L.A.

**12
APR**

FRIENDS OF DENTISTRY GALA » This year's gala honors former faculty member Carl Rieder DDS '59 with an Excellence in Education Award for his contributions to the education of some of the best dentists in the world. | Balboa Bay Club, 1221 West Coast Highway, Newport Beach

**12-13
APR**

L.A. TIMES FESTIVAL OF BOOKS » By rail, road or bike path, SoCal's literati—and glitterati—make their way to USC for the country's largest and most prestigious book festival. The free event treats bibliophiles to live music, discussion panels and—thanks to the Community Oral Health Programs—a free dose of free oral health care. | events.latimes.com/festivalofbooks

**15-16
MAY**

SENIOR AWARDS BANQUET & COMMENCEMENT » Honor the superstars of the Class of 2014 on Thursday night. Then watch the graduates take that proud walk across McAlister Field the next morning to get their degrees and specialty certificates. 11 a.m.-2 p.m. | University Park-McAlister Field

**17
MAY**

USC ALUMNI RECEPTION AT CDA ANAHEIM » Ostrow makes its mark on one of the largest dental conventions in the nation with a cocktail reception for Trojans and their friends. | 5-7 p.m. | Hilton Anaheim, 777 W. Convention Way, Anaheim

FEATURES

ROCK 'N' ROLL DENTISTS 7

BY YASMINE PEZESHKPOUR

Ostrow alumnus Bob Bey DDS '88 explains how a group of five San Diego-based dentists looking to decompress from the rigors of their day jobs formed Novocaine, an all-Ostrow alumni band rocking this year's Casino Night on Nov. 15.

THE HEAD OF THE CLASS 11

BY BETH NEWCOMB MPH '13

Associate Dean of Academic Affairs and Student Life Mahvash Navazesh explains Ostrow's DDS curriculum review and how these changes ensure the school remains one of the nation's top dental educational institutions.

10 LESSONS LEARNED IN DENTAL SCHOOL 17

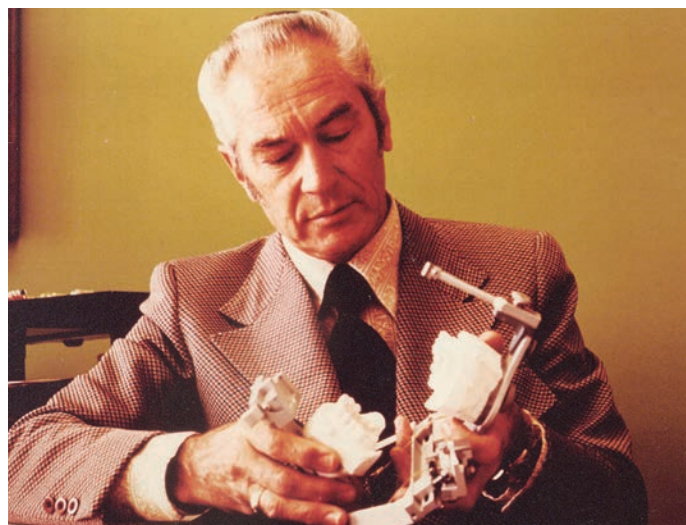
BY DEBORAH LOH '10, DDS '14

A member of the first class to graduate having been taught entirely under the new curriculum, which, taking from University direction is focused on learner-centered education, Deborah Loh reflects on dental school.

FROM THE AMAZON TO THE CONCRETE JUNGLE 21

BY BETH NEWCOMB MPH '13

Dr. Neimar Sartori grew up in the Amazon—only to transfer to the “concrete jungle” as an assistant professor in Ostrow's division of restorative sciences. Read about the new faculty member's journey and his research on restorations.



A LEGEND IS LOST 25

BY HOWARD M. LANDESMAN DDS, M.Ed.

At the end of September, we lost one of our legends, with the passing of Rex Ingraham DDS '41. Former Dean Howard Landesman takes a look at Ingraham's life and the legacy he left on Ostrow.

CONTRIBUTORS



RYAN FORBES

Master Lensman

Photographer Ryan Forbes got his first camera at 13. The camera, a cast-off from his father who was an art director, inspired the young man to set up elaborate shoots with props, wardrobe and neighborhood kids for models. Ryan now travels the world, working with many amazing clients, including us—he shot this issue's cover—and says he looks forward each day to knowing that he'll capture something beautiful on film.



HOWARD M. LANDESMAN, DDS, M.ED.

*Former Dean and
Prosthodontics Rockstar*

Former Dean Dr. Howard M. Landesman (1991-1998) dedicated 41 years to educating, researching and serving on the administrations at both USC and the University of Colorado dental schools. The former USC Dental Alumni Association president—and distinguished service award winner from three major prosthodontics organizations—pays tribute to his long-time colleague and friend Rex Ingraham on page 25.



DEBORAH LOH DDS '14

*Fourth-Year Dental Student &
USC 925 Editrix*

Deborah Loh joined the Trojan Family in 2005, first as an undergraduate, studying piano performance and biological sciences, then as a dental student. At Ostrow, she has participated in student government, teaching opportunities, volunteer work, research and editing 925, a new student publication. In this issue, Loh reflects on her dental school career with “Ten Lessons Learned In Dental School” on page 17.



LEON UNTERMAN DDS '63

*Photographer and Half-Century
Dental Trojan*

Dr. Leon Unterman recently celebrated his 50th class reunion with fellow members from the Class of 1963, many of whom still serve on our faculty. When Unterman's not serving as a clinical associate professor or editing the *Part-Time Faculty Assembly Newsletter*, he's shooting images at Ostrow events with his trusty camera. Check out his pictures from the Class of '63 reunion on page 19.

Dear Trojan Dental Family,

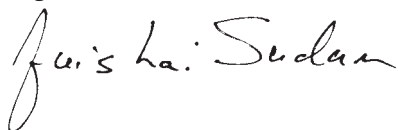
Welcome to the latest issue of *TroDent*! I hope all of you are wrapping up a happy and successful 2013.

This year has been another busy one for the Ostrow School of Dentistry. We've continued to provide meaningful improvements for our school and great educational experiences to our students. We've also named Douglas Solow as our new associate dean of clinical affairs. Solow comes to Ostrow from the University of North Carolina School of Dentistry.

Unfortunately, this year has also brought sorrow for the Trojan Dental Family with the passing of beloved faculty members and alumni, including the legendary Rex Ingraham DDS '41. Dr. Ingraham leaves to the Ostrow School of Dentistry and the dental profession a legacy of clinical excellence, education and mentorship that is unmatched.

This issue of the *TroDent* focuses on our educational mission and methods. Mahvash Navazesh, associate dean of academic affairs and student life, discusses the process of our DDS curriculum review and the changes it has undergone in recent years in this issue's cover story. Under her guidance and with the hard work of our faculty members, our curriculum has evolved to better serve today's students and prepare them for a state-of-the-art dental career, all while maintaining the Ostrow School of Dentistry's lofty standards of clinical and professional excellence.

Fight On!



Avishai Sadan, DMD

Dean

G. Donald and Marian James Montgomery

Professor of Dentistry

Ostrow School of Dentistry of USC



PHOTO BY JOHN SKALICKY

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twitter.com/Dean_Sadan





1



2



3

PART-TIME FACULTY APPRECIATION DINNER 2013

The Ostrow School of Dentistry celebrated its part-time and volunteer faculty on May 29 at the Jonathan Club in Downtown Los Angeles. Tommy statuettes and glass plaques were at the ready for those celebrating milestone years—including a 50th anniversary—as well as divisional service awards. PHOTOS BY JOHN SKALICKY

For more Part-Time Faculty Appreciation Dinner pictures, visit tinyurl.com/ptfa2013.

1) Ralph Allman DDS '62, ORTHO '66 2) Dean Sadan & Karen Refkin 3) Lily Cabellon 4) Linda Maeder & guest 5) Pauline Tran DDS '96, Roseann Mulligan & Piedad Suarez 6) Christopher Truhan DDS '79, Sillas Duarte & Dean Sadan 7) Kyle Stanley DDS '10, Matthew Nejad DDS '10 & Bita Moalej DDS '10, ORTHO '13, MS '13 8) Shannon Green & Kelley Randle flank a Jonathan Club employee. 9) Haley Schenasi, Madeline Schenasi DH '13, Diane Melrose MA '11 & Boris Keselbrener



4



5



6



7



8



9



L-R: Randy Garland DDS '88,
Bob Bey DDS '88, Curt McRae DDS '91,
Dan Roberts DDS '82 & Russ McCalley DDS '88
PHOTO BY KATHY ROBERTS

ROCK 'N' ROLL DENTISTS

BY YASMINE PEZESHKPOUR

Dentists and business owners by day, these alumni exchange their dental instruments for musical instruments afterhours. Drummer Bob Bey DDS '88 talks about Novocaine, the Ostrow DDS alumni band.

By day, they are Randy Garland DDS '88, Bob Bey DDS '88, Curt McRae DDS '91, Dan Roberts DDS '82 and Russ McCalley DDS '88.

But by night, they shed their starched white coats for T-shirts and faded jeans to become Novocaine, a popular all-dentist band that, contrary to its anesthetic connotations, really rocks its audiences.

The band mates first got together 20 years ago after joining a San Diego study club.

"We realized that many fellow alumni had settled in San Diego after getting our DDS degrees," Bey explains. "So we decided to form a study club to learn from each other."

Since then, the study club evolved into a professional club that shares its member's journeys through dentistry, allows them to take turns inviting speakers and to present their challenging cases for group feedback.

After the formal parts of the meeting, the club adjourns to a friendly game of poker. Recently, the club expanded its gatherings to include USC football game viewing parties and ski and surf trips.

It was on these trips that the musically inclined members brought their guitars, Cajun drum boxes and other instruments for jam sessions.

"The idea to form a real band was the obvious next step," Bey says about forming Novocaine.

Prior to that, Bey had been playing the drums for more than 40 years

in bands through high school, college, dental school and beyond. He currently plays in another band with a few patients called The Classics.

McCally boasts an equally long career playing guitar and vocals, even playing in a band during his time at USC with Bey called The Dents.

"Roberts and McRae have played bass and guitar for a number of years, and Randy Garland has been singing in the shower his entire life!" Bey says.

"Recently we added a conga player, Craig Small, who is not a dentist, but flosses every day," he adds with a laugh.

Novocaine performed for the first time in 2010 with only a five-song lineup.

"I talked Open Wide, the all-dental Orange County band, into letting us play our set during one of their breaks," Bey says. "We had friends come out to support us and cheer us on. We had such a blast that it motivated us all to keep building our band."

Novocaine started playing at parties but has since expanded to playing at bars, outdoor summer concerts and, most rewarding to the band, charities and fundraisers.

"We have offered the band to local groups that help raise funds for a variety of causes from supporting military families to raising awareness for organ donation."

These days, Novocaine covers current hits, rock and country music. They cover songs by Jack Johnson, Johnny Cash, the Beatles and the Rolling Stones.

Recently, they added their own original tunes to their lineup. "Writing original music is much more difficult than learning a cover song and putting our own spin on it," Bey says.

In addition to finding time to write original music, Bey says the band's biggest challenge is finding time to practice while juggling families, their own practices, continuing education and other hobbies.

"We recognize the sacrifices our families make in letting us do such a time-intensive activity as playing in a band. Our wives recognize that dentistry—and being a business owner—can be stressful at times. They allow us this wonderful escape with very little complaint and lots of fan support," Bey explains.

Bey and his fellow bandmates appreciate the connection between their interest in dentistry and performing with a band. They believe it takes as much hard work to become a good dentist as it does a good musician—and loads of practice for both.

"In dentistry, we take tons of continuing education, follow the guidance of mentors and work with great support staff to get to the top of our game. In music, we take lessons, listen to musicians who drive us to be better with their talents and play with a great group of guys to become a better band. This is why many dentists choose music as a hobby. It's a different kind of challenging outlet."

Ostrow alumni will get a chance to see the fruit of the guys' labor during Homecoming Weekend when Novocaine plays at Casino Night on Nov. 15 at the L.A. Athletic Club.

"We are excited to perform for our fellow classmates," Bey says. "Come out strong, class of '88!"



L-R: Helen Gonzales, Edith Huerta, Paula DeWet, Dean Sadan, Eileen Guzman & Sharon Uyeda

INAUGURAL ALL-STAR AWARDS They went above and beyond the call of duty. On Aug. 6, six staff members (not pictured: Rachelle Bautista) were recognized for their stellar contributions to the school with an All-Star Award, a new quarterly prize for exemplary employees. PHOTO BY BETH NEWCOMB MPH '13

DDS CLASS OF 2015 BARBECUE The Class of 2015 fired up the grills in McCarthy Quad to cook burgers and hot dogs for a summer afternoon picnic on June 27. And no picnic would be complete without an old-fashioned watermelon-eating contest, this one handily won by Jose Soto DDS '15.

PHOTOS BY JOHN HOBBS

1) Watermelon-eating champ Jose Soto 2) Mia Harrison—on grill duty 3) DDS Class of 2015 President Moiz Horani & Mahvash Navazesh 4) The DDS Class of 2015 & their respected faculty members pose for a group shot. 5) Back row: Andrew Nguyen & Dustin Le; Front row: Suzanne Wen, Marissa Ku & Michelle Zin



For more pictures from the DDS Class of 2015 Barbecue, go to tinyurl.com/classof15bbq.



CONTENTS

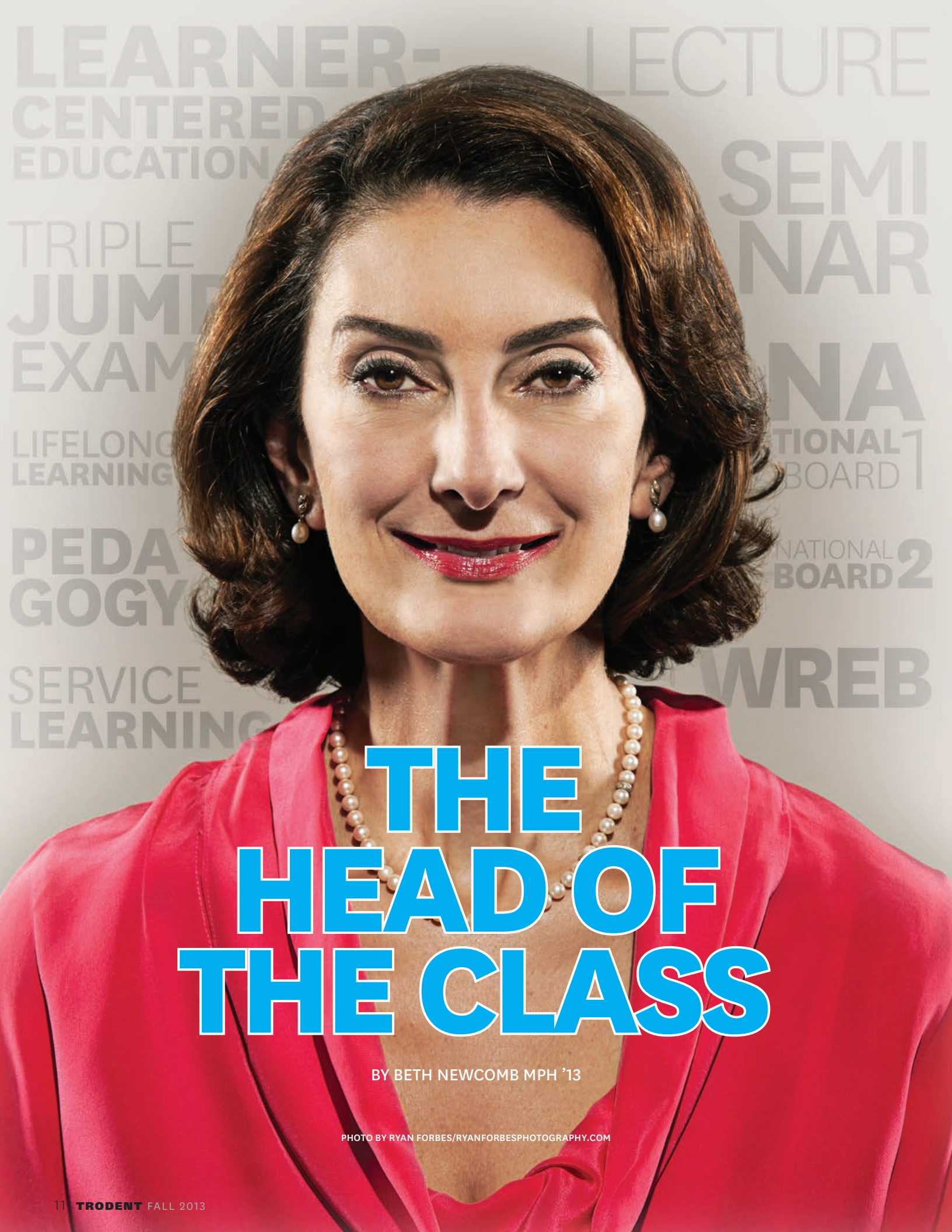
THE HEAD OF THE CLASS	11
THE STUDENT PERSPECTIVE & YEARLY CURRICULUM	13
10 LESSONS LEARNED IN DENTAL SCHOOL	17

PORTAL TO THE FUTURE

The Ostrow School of Dentistry

Doctor of Dental Surgery program has just four years to prepare dental students to begin a lifelong career.

Because of this, the program's curriculum needs to always be as effective, efficient and up-to-date as possible. Read on to see how Ostrow's transforming today's dental students into tomorrow's dental leaders.



THE HEAD OF THE CLASS

BY BETH NEWCOMB MPH '13

PHOTO BY RYAN FORBES/RYANFORBESPHOTOGRAPHY.COM

**As associate dean of academic affairs and student life,
Dr. Mahvash Navazesh oversees the continual review of curriculum—
including the 2015 Commission on Dental Accreditation visit—
to ensure Ostrow continues its longstanding tradition of excellence in dental education.**

The Ostrow School of Dentistry Doctor of Dental Surgery program has just four years to prepare dental students to begin a lifelong career. Because of this, the program's curriculum needs to always be as effective, efficient and up-to-date as possible.

Associate Dean of Academic Affairs and Student Life Mahvash Navazesh works with Ostrow faculty and students to continually review and improve the DDS curriculum. The latest updates are preparing students to not only enter the profession successfully but also lead it into the future, she says.

REVIEWING THE DDS CURRICULUM

The DDS curriculum is under scrutiny each trimester, and comprehensive reviews take place every five years.

"The Curriculum Committee, made up of faculty members, makes final recommendations for potential changes based on feedback from students and faculty each trimester," Navazesh says.

Besides student and faculty feedback, curriculum tweaks are also prompted by performance on national board and licensure examinations as well as changes in oral health epidemiological data, new scientific information and evolving technology.

The implementation of the new curriculum, which was based on a 360-degree evaluation, began in 2010.

TEACHING METHODS USED

Different educational methodologies work best for different material, Navazesh says, and she stresses the importance of a school environment focusing on "learner-centered education."

"We have a strong commitment to providing a curriculum that includes multiple methodologies in order to promote interactive, student-centered education and skills for lifelong learning," she says.

The variety of student learning environments includes guided hands-on skill development, traditional large-group lectures, problem-based and case-based small-group learning sessions facilitated by faculty members, research opportunities and community outreach.

Unlike the program's biomedical sciences content, which is solely taught using problem-based learning, the behavioral and clinical sciences content are presented with a combination of traditional lectures and case-based small-group learning, all facilitated by faculty. Cutting-edge technology has a heavy presence throughout the curriculum—including computer-aided design and manufacturing and implant placement—in order to impart hands-on knowledge of form, function and technique.

With dentistry being a profession centered on patient interaction and gathering information to make sound decisions, allowing students to actively participate in the learning process with classroom dialogue, faculty and patient engagement and self-reflection is important, Navazesh says.

STREAMLINING COURSEWORK

Eliminating redundancies in the curriculum has been a very important part of the curriculum update process, Navazesh says.

"Our faculty members have converted 190 traditional 'silo' courses into 44 courses—four course categories each trimester over 11 trimesters," she says.

The course categories—Human Structure, Human Function, Human Behavior and Human Clinical Dentistry—provide students with comprehensive, integrated and efficient coursework each trimester. Clinical experiences start in the program's first trimester and gradually intensify. The streamlined coursework allow students to make clinical work their focus in the sixth trimester, an entire trimester earlier than before.

The integrated coursework plan also helps faculty members make changes to course material more easily when needed, Navazesh adds.

STUDENT SUCCESS AND SATISFACTION

While revisions continue to be made, most of these major changes went into effect in 2010. Results and feedback have been extremely positive so far, Navazesh says.

"Feedback from both students and faculty has been very favorable," she says. "Students have reported feeling competent and confident. Faculty members have commented that students are more informed, skillful and efficient and that the faculty has more direct influence on the curriculum."

The results back up the upbeat comments, she adds. National Board Dental Examination first-time pass rates remain above 90 percent, and Western Regional Examining Board (WREB) first-time pass rates remain similarly high (Ostrow students now take the WREB exam instead of the Dental Board of California exam).

In addition, on-time graduation rates have significantly improved to more than 90 percent. The student retention rate—the ratio of students entering the program versus graduating from the program—was 99 percent last year and is an especially positive indicator for a program with a large class size such as Ostrow, Navazesh says.

Student exit surveys also reflect increased satisfaction with the Ostrow School of Dentistry's DDS program. Most recently, 96 percent of graduating students agreed to the statement, "I have the essential knowledge, skills and values to begin practicing dentistry," and 91 percent said they "would recommend the Ostrow School of Dentistry to prospective students."

Navazesh says the positive results reflect not only the continual curriculum updates but also the hard work of and dialogue between Ostrow students and faculty members.

"This is a true partnership between our faculty and our students," she says.



YEAR 1

FALL

Fundamentals of Restorative Dentistry Module

Anatomic Sciences, Microbiology, Pathology, Biochemistry, Physiology, Patient Management, Pharmacology

Dental Morphology, Function and Esthetics Module

Patient Management, Anatomic Sciences, Microbiology, Pathology, Oral Diagnosis

Introduction to Ethics and Professionalism

Biochemistry, Physiology, Anatomic Sciences, Microbiology, Pathology, Oral Diagnosis

Diagnosis Rotation

Radiology Dexter Rotation

Patient Management, Periodontics, Microbiology, Pathology

Extra and Intraoral Soft Tissue Exam, Oral Cancer Screening and Vital Signs Rotation

Patient Management, Anatomic Sciences, Microbiology, Pathology, Biochemistry, Physiology, Endodontics

Mock Patient Interview and Review

SPRING

Adhesive and CAD/CAM Restorations Module

Microbiology, Pathology, Patient Management, Pharmacology, Biochemistry, Physiology, Anatomic Sciences

Dental Morphology, Function and Esthetics Module

Microbiology, Pathology, Patient Management, Biochemistry, Physiology, Pharmacology, Anatomic Sciences

Behavioral Dentistry Module

Microbiology, Pathology, Patient Management, Biochemistry, Physiology, Oral Diagnosis, Anatomic Sciences

Ethics and Professionalism Module

Biochemistry, Physiology, Patient Management, Anatomic Sciences

Radiology Patient Rotation

Microbiology, Pathology, Biochemistry, Physiology, Anatomic Sciences

Diagnosis Rotation

SUMMER

Indirect Restoration Module

Anatomic Sciences, Oral Diagnosis, Patient Management, Biochemistry, Physiology, Microbiology, Pathology

Head and Neck Anatomy Module

Biochemistry, Physiology, Anatomic Sciences, Patient Management, Oral Diagnosis

Periodontics Module

Microbiology, Pathology, Oral Diagnosis, Anatomic Sciences, Patient Management, Pharmacology

Radiology Patient Rotation

Biochemistry, Physiology, Anatomic Sciences, Microbiology, Pathology, Patient Management, Pharmacology

Diagnosis Rotation

Biochemistry, Physiology, Patient Management, Microbiology, Pathology, Orthodontics, Pediatric Dentistry

CYNTHIA YOUNG DDS '14

“Even as a new dental student having little to no experience, Ostrow allowed me to get as much exposure as I wanted to the many different specialties by encouraging me to assist upperclassmen and interact with patients. If I were to go back in time and had to choose a dental school, I wouldn’t skip a beat to say USC.”

YEAR 2

FALL

Endodontics Module

Anatomic Sciences, Microbiology, Pathology, Biochemistry, Physiology

Orthodontics Module

Pediatric Dentistry Module

Microbiology, Pathology, Pharmacology, Anatomic Sciences, Biochemistry, Physiology

Periodontics Module

Anatomic Sciences, Microbiology, Pathology, Biochemistry, Physiology, Pharmacology

Posterior Fixed Prosthodontics Module

Biochemistry, Physiology, Microbiology, Pathology, Anatomic Sciences

Treatment Planning Module

Evidence-Based Dentistry Module

Biochemistry, Physiology, Patient Management, Microbiology, Pathology, Anatomic Sciences, Pharmacology

Radiology Patient Rotation

Diagnosis Rotation

SPRING

Anterior Fixed Prosthodontics Module

Biochemistry, Physiology, Anatomic Sciences, Patient Management, Microbiology, Pathology,

Removable Prosthodontics Module

Biochemistry, Physiology, Anatomic Sciences, Oral Surgery, Pain Control

Treatment Planning Module

Patient Management, Biochemistry, Physiology, Dental Anatomy, Occlusion

Orthodontics Module

Local Anesthesia and Nitrous Oxide Module

Microbiology, Pathology, Patient Management, Pharmacology, Biochemistry, Physiology

Periodontics Module

Biochemistry, Physiology, Patient Management, Anatomic Sciences, Microbiology, Pathology

Diagnosis Rotation

Radiology Patient Rotation

SUMMER

Emergency Medicine Module

Biochemistry, Physiology, Microbiology, Pathology, Patient Management, Anatomic Sciences, Orthodontics, Pediatric Dentistry

Ethics and Professionalism Module

Biochemistry, Physiology, Pharmacology, Oral Surgery, Pain Control, Microbiology, Pathology, Patient Management

Diagnosis Rotation

Emergency Rotation

Patient Management, Anatomic Sciences, Microbiology, Pathology, Biochemistry, Physiology, Orthodontics, Pediatric Dentistry

Oral Surgery Rotation

Anatomic Sciences, Biochemistry, Physiology, Dental Anatomy, Occlusion, Oral Surgery, Pain Control, Pharmacology

Treatment Planning Seminar/Rotation

Pediatric Dentistry Rotation

KASRA TAJIK DDS '14

“The knowledge I obtained about the pharmacology of local anesthetics, sedation and treating dental emergencies in my second year gave me the skills to anesthetize a patient and handle an unusual reaction during treatment.”





YEAR 3

FALL

Cultural Sensitivity for the Health Care Provider Module

Oral Histology, Microbiology, Pharmacology, Periodontics, Laboratory Testing, Communications, Patient Management

Dental Morphology, Oral Histology, Physiology, Patient Management, Smoking Cessation, Dental Materials, Prosthodontics, Endodontics, Esthetic Dentistry

Treatment Planning Seminar/Rotation

Periodontics, Patient Management, Treatment Planning

Rotations that may include: Community Outreach/Service Learning, Diagnosis, Emergency, Oral Surgery, Pediatric Dentistry

SPRING

Anatomy, Histology, Geriatrics, Physiology of Aging

Orthodontics Module

Patient Management, Office Management

Oral Pathology Seminar/Rotation

Anatomy, Physiology, Laboratory Management, Prosthodontics

Treatment Planning Seminar/Rotation

Anatomy, Biochemistry, Physiology, Oral Surgery, Medical Emergencies

Rotations that may include: Community Outreach/Service Learning, Diagnosis, Emergency, Hospital Dentistry, Oral Surgery, Orofacial Pain/Oral Medicine, Pediatric Dentistry, Periodontics, Special Patients

SUMMER

Periodontics Surgery Laboratory Module

Practice Management Module

Treatment Planning Seminar/Rotation

Oral Pathology Seminar/Rotation

Rotations that may include: Community Outreach/Service Learning, Diagnosis, Emergency, Geriatrics, Hospital Dentistry, Oral Surgery, Medicine/Orofacial Pain, Periodontics, Special Patients

CHRISTOPHER FANELLI DDS '15

“It has been incredibly gratifying during third year to experience the results of our hard work during the preclinical years manifesting itself through wonderful patient outcomes and the quality of care we are able to deliver to our patients.”

YEAR 4

FALL

Treatment Planning Seminar/
Rotation

Oral Pathology Seminar/Rotation

Rotations that may include:
Community Outreach/Service
Learning, Diagnosis, Emergency,
Hospital Dentistry, Geriatrics/IPE
Geriatrics, Oral Surgery, Mobile
Clinic, Oral Medicine/Orofacial Pain,
Oral Pathology, Periodontics, Special
Patients

SPRING

Treatment Planning Seminar/
Rotation

Rotations that may include:
Community Outreach/Service
Learning, Diagnosis, Emergency,
Hospital Dentistry, Geriatrics/
IPE Geriatrics, Oral Surgery,
Oral Medicine/Orofacial Pain,
Periodontics, Special Patients

VANESSA LEEWING DDS '14

“It’s very rewarding to be able to apply all of the knowledge we’ve gained over the past four years to help those in need through the many outreach programs organized by the Ostrow School of Dentistry of USC.”



Ten Lessons Learned in Dental School

When I graduate, I will be among the first Ostrow class to have completed the new curriculum that, taking the University's lead, focuses on learner-centered education and uses a variety of teaching styles. These are the lessons I've learned in my four years as a dental student:

BY DEBORAH LOH '10, DDS '14

10. THE OSTROW SCHOOL OF DENTISTRY HAS A DIVERSE, TALENTED STUDENT POPULATION.

Throughout my USC journey—both as an undergraduate and a dental student—I have appreciated our diversity. My classmates come from a wide variety of majors. Some were coming back to school after being in the professional world. Regardless of our backgrounds, we became family.

9. LEARNER-CENTERED EDUCATION IS EFFECTIVE.

Not only did it prepare me well for the National Board Dental Examination Part I, it also helped me develop problem-solving skills, learn how to collaborate and promoted lifelong learning.

8. THE EVER-EVOLVING DDS PRE-CLINICAL CURRICULUM GAVE ME A SOLID FOUNDATION IN CLINICAL DENTISTRY.

The faculty set the bar high for us, stressing the importance of paying attention to the finer details. The condensed, intensive learner-centered education prepared us to start treating patients in our second year.

7. STRONG CLINICAL TRAINING AND FORWARD THINKING—PARTICULARLY TEACHING US HOW TO USE STATE-OF-THE-ART DENTAL TECHNOLOGY—ARE THE HALLMARKS OF AN OSTROW EDUCATION.

We've been provided with great educational tools, experiences, new technology and facilities. Major renovations to our clinical and lecture room facilities provided access to the latest dental technologies in one of the best learning and clinical environments.

6. MANY LEADERS OF THE DENTAL PROFESSION ARE FROM USC. OUR FACULTY MEMBERS ARE EXCEPTIONAL!

Our outstanding dental educators have been instrumental in our professional and personal growth. They made extraordinary efforts in providing mentorship and guidance inside and outside of clinic.

5. ACADEMICALLY BASED SERVICE-LEARNING PROGRAMS ALLOW FOR A WEALTH OF SERVICE AND EDUCATIONAL OPPORTUNITIES.

The Ostrow School's urban initiative has been a long-standing model for university-community partnerships. By partnering with numerous community health clinics, the school provides a means of increasing access to care while giving students diverse clinical experiences.

4. THERE IS MUCH MORE TO DENTAL SCHOOL THAN STUDYING!

There are many different extracurricular activities to participate in, such as student government, organized dentistry, community service, selective programs and research. Some of my fondest memories came from these experiences.

3. THE OSTROW SCHOOL PREPARES FUTURE CLINICIANS TO BE LIFE-LONG LEARNERS.

Our curriculum not only equipped us with the skills and real-world dental education necessary to be excellent clinicians, it has also prepared us to be life-long learners and leaders ready to make a difference in our profession and community.

2. THE ALUMNI ARE A MAJOR DRIVING FORCE IN PROPELLING USC FORWARD AMONG THE RANKS OF THE WORLD'S TOP DENTAL SCHOOLS.

The Ostrow School is advancing rapidly in research, innovation, teaching and patient care; in recruiting the best faculty and students; and in creating the best learning environment possible. We are able to accomplish great things and impact society because of steadfast alumni support.

1. RESPECT THE PAST, CREATE A BETTER FUTURE

USC has given me so much more than I can repay. I will always cherish the Trojan Family spirit, pride and traditions of USC, the treasure of knowledge gained and friendships made throughout this journey.



ALEXANDER HEATRICE, DDS, MPH, MS '16

BY JOHN HOBBS

After Alexander Heatrice finishes a long day of providing dental care to cadets and officers at the United States Military Academy and then manages to barrel through the grueling physical training required of an officer, it might seem like he'd be ready to drop.

But for the 34-year-old West Point dental officer, the day's just beginning.

With a steely resolve often reserved for military men, Heatrice heads home to his secret life—that of a student. He plugs into the Ostrow School's new online master of science program in orofacial pain and oral medicine—a course of study he says takes up to 30 hours of his limited free time.

"I have a dream, and I have to pursue it no matter what," explains Heatrice about why he does it. He says he spends three hours each night studying and treats each weekend day like it's a 9-to-5 job, with his eyes glued to the computer screen.

Heatrice began his military career after getting a Health Professionals Scholarship. In exchange for the military paying for his third and fourth year at Howard University's College of Dentistry DDS program, he had to serve four years.

"I absolutely love serving my country. It's one of the most responsible things I've done so far—other than marrying my wife," he says with a laugh.

Though most of his work is general dentistry procedures because his patient population is largely young, healthy men and women, he tries

to fit in work with an oral surgeon for third-molar extractions and other procedures to expand his level of understanding.

It's all in the name of becoming an oral surgeon, a field he has a real passion for.

Five years into his service—one year more than required—he decided to go back to school for a specialty certificate. Though the military does offer specialty courses, he figured it would be better to get a different perspective, so he chose Ostrow's new online program.

"I chose USC because for one, it's an awesome university and one of the most renowned schools to get an advanced degree from, and Dr. Glenn Clark [director of the master of science in orofacial pain and oral medicine program] is very known in the field," he says. "Not many people get the opportunity to learn from him."

The online curriculum consists of recorded lectures, regular presentations and group teleconferences with Clark and students hailing from coast to coast in the United States and even Canada.

Heatrice explains the lack of hands-on experience doesn't bother him because, as a mid-career dentist, he doesn't feel the need to have a professor looking over his shoulder.

He also likes that he doesn't miss much in lectures. "If you're going through the lecture, and you miss something, you can rewind it and actually go back to listen to it."

And the independent learning has been academically challenging. "It's not one of those things where it's being given to you," he explains. "You really have to take your knowledge and find your way."

Just six months into the program, Heatrice explains the impact it's already had on his day-to-day practice.

"I can actually see symptoms of certain issues that I've learned and apply it—not because someone told me in a continuing education session or in practice, but because I understand why I should do what I need to do."

Heatrice highly recommends the online masters of science in orofacial pain and oral medicine to other mid-career dentists as well.

"If someone came to you and said, 'I'm going to give you an opportunity to do something that most people may need to help them become a better provider, and I'm not going to stop you from earning your livelihood,' would you take it?" he asks. "I think most people would say yes. I know I did."

As for all the time he's spending away from his wife Ackeilia? She's been great. "She's a dentist, so she understands what it takes to be successful," he says. "She's awesome for that."

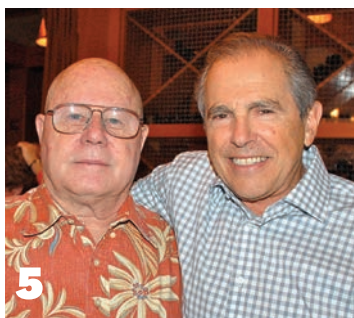
For more information on Ostrow's online programs in either orofacial pain and oral medicine or geriatric dentistry, visit dentistry.usc.edu/programs/online-programs/.



CELEBRATING THE CLASS OF '63'S 50TH REUNION Earlier this year, 30 half-century Dental Trojans and their spouses came together to celebrate their 50th class reunion. Each attending member of the Class of '63—many of whom still work at Ostrow—stood up and shared what they are doing now with the rest of the group. One of the evening's highlights was John Farsakian DDS '63, ORTHO '67 reading a poem he wrote about his dental school days.

PHOTOS BY LEON UNTERMAN DDS '63

1) DDS Class of '63 **2)** The lovely wives of the Class of '63 **3)** Peggy Bemis & Susan Kassabian **4)** Benita Schwarz & Dr. Leon Unterman **5)** Drs. Thomas Moore & Albert Mizrahi **6)** Dr. Theodore Depew & wife Marilyn Depew **7)** Drs. Jon Standlee, George Bryant & Thomas Ostman **8)** Dahlene Done & Nicole Oswell **9)** Bonnie McClellan & Patti Mizrahi **10)** Dr. Daryll Pat Slavens & wife Kane Slavens





WHERE ARE THEY NOW?

Brent Ward

DDS '96, MD

BY JOHN HOBBS



On any given Tuesday, Brent Ward DDS '96, MD can be found in a surgical suite for hours working on some of the most demanding cases. His job often has him staring through a microscope, stitching together blood vessels—some as small as a millimeter wide—to restore form and function to patients who've lost tissue to oral cancer.

It takes a steady hand, a skill the Ostrow alumnus—who went on to get a medical degree before becoming director of the University of Michigan's Oral, Head and Neck Oncology and Microvascular Surgery program—says he devel-

oped because of Ostrow and its perfection-demanding professors. We caught up with Ward to talk about life post-dental school.

What did you want to do when you graduated from Ostrow?

My plan was to spend four years at the University of Michigan [for a Certificate in Oral and Maxillofacial Surgery] and then look for a private dental practice back in Southern California. But two things happened: My wife and I began having some feelings that Ann Arbor was a long-term home for us, and I was given an opportunity to go to medical school. When I initially made inquiries at Michigan, one of the agreements was if they were able to get a medical program running, they would allow me to be its first student.

While you were in dental school, you and your wife had the first of what would become six kids. What was it like going to dental

school with a newborn?

It was really tough. I was living in Westlake Village and commuting 40 miles very early in the morning and coming home very late at night. My wife and I had a deal where, once I got home, I'd be able to take my daughter out of the crib and rock her, even though it might wake her. It was hard to manage and balance all those things but well worth the effort.

Your work seems like it would be really rewarding. Which of your patients would you say rewarded you the most?

There are too many to count. I've had the privilege of treating a 22-year-old graduate student who now remains cancer-free almost eight years later. I've also had the privilege of treating an athletic director at a college not far from here who was the winningest football coach in the history of the university. He continues to be a survivor

and motivates his athletes. These patients and many others continue to make a difference in the world.

How do you look back on your years at USC?

For Brent Ward, in 1992, I don't think there was a better place in the nation for me to be able to train. I'm sitting here in my home office, looking at my degree wall. The USC dental degree is in the center of seven other degree and certificates. There's also my achievement wall, which has my McNulty Award, the Newkirk Award, the "Doctors Ought to Care" Program, Outstanding Graduate Recognition, American College of Dentists and OKU certificates. Every one of them comes from USC. At the time they were given, they were to represent what I had given to USC. As I look back on them now and contemplate how my professional life has evolved, what those awards really represent is what USC gave to me.

Neimar Sartori spent a large portion of his childhood in the middle of the Amazon and didn't attend school until age 9. Now, he's an Ostrow faculty member and conducts groundbreaking research on dental restoration and materials.

As a child, Neimar Sartori could have scarcely imagined he'd one day be living 5,000 miles away in the dense hustle and bustle of Los Angeles.

Sartori, an assistant professor of clinical dentistry at the Ostrow School of Dentistry, was born in São José do Cedro, a tiny town of 10,000 people in the south of Brazil. Two years later, Sartori's father took the opportunity to buy affordable farmland and moved the family north to Altamira.

Altamira is technically the biggest municipality in the world, covering an area of 62,334 square miles. However, the region was largely untouched when the Brazilian government began encouraging people such as Sartori's family to relocate and help develop it.

"We didn't have electricity or running water. We had to get water from the river," Sartori says of his family's home in the Amazon.

The family spent seven years on their farm, during which Sartori had no access to formal education.

"At the time, my parents had only an elementary education," he says. "They wanted me to study and at least finish high school."

At age 9, Sartori and his family moved back to São José do Cedro, where he attended school for the first time, enrolling in second grade.

During middle school and high school, the idea to become a dentist began forming in his mind.

Coincidentally, he had been honing his hand skills for years by drawing and helping his mother with tailoring work.

"I always liked to do very detailed work with my hands, and I thought about a career where I could combine the things I liked," he says.

He also jokes that having fun while dressed as a dentist for a parade as a child helped a little bit too.

His parents encouraged him to apply to dental school, and he attended the Federal University of Santa Catarina School of Dentistry. During the dental program, he discovered his interest in esthetic dentistry.

"I was interested in how you could restore a tooth and not see the restoration," Sartori says. "I found a real passion for this area."

After graduating with his DDS degree, he completed a residency in advanced operative dentistry, a master's degree and Ph.D. in dentist-

ry focused on biomaterials. He first traveled to the United States to be a visiting scholar at Case Western Reserve University in Cleveland, Ohio.

It was there that he met Sillas Duarte, who would become a mentor and close colleague. In addition to their Brazilian heritage, the two shared a research interest in the strength and longevity of bonded dental restorations and began working together.

In 2011, Duarte arrived at the Ostrow School of Dentistry and became the chair of the Division of Restorative Sciences and director of the Advanced Operative Dentistry Program. He continued to collaborate with Sartori, who was a visiting scholar at Ostrow in 2011.

Afterward, Sartori worked as a faculty member in Brazil before applying for a faculty position at Ostrow. He joined the dentistry faculty at USC in 2013 as an assistant professor in the Division of Restorative Sciences.

Today, Sartori continues to study bonded restorations, using advanced microscopy techniques to closely examine the interfaces between natural tooth structure and restorative materials after artificially aging the restoration. The striking resulting images reveal the tiniest weaknesses in the bonded interface, such as the points where moisture has seeped into the restoration.

"We want the restoration to survive as long as it can," Sartori says. "We can simulate the restoration's aging, simulate pulpal pressure and prove the bonding strength of these materials."

Sartori also takes his lab research to the clinic, following patients who've been treated using different restorative techniques for several years and comparing the real-life results to the lab data.

In addition, he is an educator, serving as assistant director of the Advanced Operative Dentistry Program. He works with students and residents in preclinical courses and the clinic as well as the laboratory.

Sartori and his wife Lais Dalmagro Peruchi, whom he met while they were both in dental school, try to visit family in Brazil at least once a year. Here at USC, being a part of the Trojan Dental Family has been great, Sartori says.

"It's a good environment here. We're very happy," he says. "I want to give my best to improve the quality of the university and foster the cutting edge of dentistry at USC."

FROM THE AMAZON TO THE CONCRETE JUNGLE

TEXT AND PHOTO BY
BETH NEWCOMB MPH '13

A LEGEND IS LOST

At the age of 99, Rex Ingraham DDS '41 passed away on Sept. 21, 2013. Former Dean Howard M. Landesman reflects on his friend and colleague's long, esteemed career at USC.

BY
HOWARD M. LANDESMAN,
DDS, M.Ed.

Rex Ingraham's academic career at USC began in 1941 following his graduation from dental school. After a few years as a teaching assistant, he rose to chair of the operative dentistry department then to interim dean and then to chair of the newly formed occlusion section.

He spent more than 40 years as an academic and was recognized as a leading authority in the areas of operative, restorative dentistry and occlusion. He was the author of numerous publications and textbooks, and his achievements earned him many prestigious awards. After retiring in 1983, he remained active by spending thousands of hours calling alumni and friends to solicit donations for the renovation of the school's second floor. In appreciation of his dedication and years of service at the school, the second floor was named the Rex Ingraham Clinic.

In the '70s, Dean Richard Oliver established the department of restorative dentistry. The department was composed of sections of operative dentistry, fixed prosthodontics, removable prosthodontics, dental materials, occlusion and advanced prosthodontics. Dean Oliver felt this new department was just too big for one person to manage and asked if I would co-chair it with Rex. As a student of Dr. Ingraham in the early '60s, to have ever even fantasized that I would one-day work side by side with him was beyond belief. I recall asking Rex, "Is it alright that I work together with you?" He replied, "Howard, you betcha!" I later learned that that was his favorite expression.

He explained to me that he had gone back and carefully checked my grades and academic standing from when I was a student (1958-1962). He also stated that he was aware of what Dr. Alex Koper and I had accomplished as co-chairs of advanced prosthodontics. He felt that together he



and I could bring the restorative dentistry department to a new level of excellence.

It was the beginning of a long-lasting professional and personal relationship. I spent many weekends at his Glendale home, working with him as we formulated and implemented methods to calibrate the faculty and provide hours of in-service training to the restorative faculty. Together, we recruited talented personnel, modernized the use of new materials and techniques and developed collaborative partnerships with industry. I even observed how he exercised on his treadmill and other devices while his wife Lucille and I "kibitzed" and munched on sandwiches.

He was a meticulous operator, a kind and benevolent human being and, without a doubt, the catalyst of the school in operative and restorative dentistry. He brought such energy to the school. It's no surprise that he was recognized as one of the 10 foremost contributors to operative dentistry in the 20th century.

THE FUTURE FOR REX

I can see it now: Rex is standing at heaven's gates, having a serious conversation with St. Peter. St. Peter says, "Rex, why are you huffing and puffing so much?" Rex replies, "I just finished my daily routine of five miles on the treadmill, 250 push-ups and am about to begin a series of aerobic exercises to include sit-ups and jumping jacks. By the way, can you please provide me with a telephone that will allow me to talk no less than one hour at a time to each and every one of my colleagues and friends?"

Rex then looks critically at the gates and asks, "What is this material that the gates are made of? Is it a form of amalgam? That material is no good. You must replace these gates with a precious metal, and gold is the answer. I recommend a softer Type I or II gold, so we can finish everything down to perfection with the correct instruments. Furthermore, speaking of instruments, I'll need gingival margin trimmers to get rid of loose enamel rods, Wiedlestaedt's, bin-angle chisels, a Tanner carver, ball burnishers, garnet and cuttle disks, lots of rubber dam, rubber dam clamps and whitener to place under my fingernails.

"Also, do you have any gold foil up here? I need gold foil, electro-mallets, annealers, swedgers and separators. In addition, I want some reversible hydrocolloid—those newer elastomeric impression materials don't provide the accuracy and detail—rotary curettage instruments, some adjustable articulators that can record side shift, top and back wall inclination, inter-condylar distance, incisal table and horizontal condylar inclination. Also, we must calibrate all of the heavenly residents up here. The only way it can happen is with a series of in-service training sessions." St. Peter, after taking a series of notes begins to perspire a bit and says, "OK, Rex, we'll do anything you want." Rex replies, "You betcha!"

THE HALL OF FAME

In the Ostrow Hall of Fame it is written:

Rex Ingraham motivated and inspired students through his dedication to perfection. In 1966, he was one of only six to be given USC's Distinguished Professor Award. Honored for his teaching, publications and fundraising for restorative dentistry. Named International Dentist of the Year by the Academy of Dentistry International in 1981.

Rex, we will all miss you, but we know you have reached God's Hall of Fame and are looking down on us, making certain we continue to perform at the level of excellence you instilled in us.

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OBITUARIES



**ROBERT AVAKIAN '50,
DDS '54**
Former President,
Century Club
Former President,
Dental Alumni Association

Dr. Robert Avakian received his baccalaureate degree from USC in 1950 and his DDS degree in 1954. Shortly after graduation, he joined the Ostrow School of Dentistry faculty and taught at the school for more than 25 years. He was a dedicated Ostrow advocate and historian. He passed away July 1, 2013.



HARRY L. DOUGHERTY
Former Chair, Advanced
Orthodontics Program
Member, Ostrow Hall of Fame

A world-renowned innovator and educator in orthodontics, Dr. Harry L. Dougherty led the Advanced Orthodontics Program for 33 years and trained more than 250 orthodontic residents. The program he designed and implemented was ahead of its time, and his leadership established USC as a leading institution in orthodontics. He passed away Oct. 5, 2013.



GERALD VALE MDS '54
Former Interim Dean

Dr. Gerald Vale received his Master of Dental Surgery degree in orthodontics from the Ostrow School of Dentistry in 1954. He held several leadership positions, including interim dean, as an Ostrow faculty member. He also served as an expert forensic dentist for hundreds of cases. He passed away July 19, 2013.



FRIENDS OF DENTISTRY DINNER Cherilyn Sheets DDS '68 and Mark Moehlman '66, MBA '68 opened up their Newport Beach home for the annual Friends of Dentistry dinner on July 27. More than 70 current and prospective members spent the evening on the home's lovely outdoor patio as Dean Sadan thanked them for their continued support.

PHOTOS BY KIM EELES '00

1) Joyce Titchnell, Leo Ward, Joanne Ward, Mark Moehlman & Cherilyn Sheets 2) Avishai Sadan, Anat Sadan, Cherilyn Sheets & Mr. Mark Moehlman 3) Kim Eeles '00, Yasmine Pezeshkpour & Karen Williamson '90 4) Avishai Sadan, Vicki Ho '74, Ken Ho DDS '77 & Anat Sadan, 5) John Aschieris DDS '58, MS '62, Nellane Aschieris, Virginia Huntington, Vivian Chui '82, DDS '86, ORTHO '93 & Robert Huntington DDS '61 6) Mark Moehlman, Cherilyn Sheets, Laraine Eggleston, David Eggleston DDS '70, PROS '72 7) Peter Wu DDS '86, Beth Wu, William Chen, Akiko Ochiai & Kent Ochiai '83, DDS '87, PROS '89



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