We are rooted in tradition, but our teachings transcend the traditional.
We are leaders, innovators, and visionaries,
united to better dentistry and the world.
The future of dentistry starts here. We invite you to be a part of it.

This year, the Ostrow School of Dentistry annual report not only looks back at 2012, the school’s monumental 115th year, but also illustrates how we prepare for and shape the future of dentistry.

Since 1897, we’ve set the gold standard in clinical techniques, technologies, and biomaterials. That tradition is more vital now than ever as digital and 3-D imagery, computer-aided design and manufacturing, and other advancements become a part of dentists’ daily lives. In order to graduate professionals who will take dentistry forward, we must continue to provide our students with access to the technologies that will become tomorrow’s dental essentials. Introducing students to groundbreaking research conducted by our faculty promotes understanding of how science powers this profession and strengthens our culture of discovery.

Another part of our legacy is our commitment to serving Southern California through health education, patient care, and public health research. For more than 40 years, we’ve helped those in need not because of any mandate, but because it is simply the right thing to do in order to better our community and give our students the best education. We’ll be making the most of new opportunities—including a new, record-breaking grant of $18.4 million from First 5 LA—to support our outreach and continue blazing trails with new public health knowledge and interventions.

These aims are all underscored by an even deeper commitment, one that informs all that we do as educators. Being committed to promoting an environment of learning, support, and camaraderie among our students and faculty means both respecting our students as the next torchbearers of our profession and honoring our faculty as the key mentors and influencers of future Ostrow dental professionals.

The school’s $115 million fundraising initiative, announced in March 2012, will support our school well into the future, including scholarships for students; faculty and research support; patient care and community outreach; and school facilities. It is our commitment to a high-quality learning environment that has brought this school to the forefront of our profession, and our support of these crucial priorities will keep us there for decades to come.

Avishai Sadan, D.M.D.
Dean
G. Donald and Marian James Montgomery Professor of Dentistry
Ostrow School of Dentistry of USC
Tiny stem cells, including those found in dental pulp, have huge possibilities for healing. Professor Songtao Shi’s research has not only discovered new sources of stem cells but has also revealed how the immune system influences stem cell regeneration. “Stem cell-based tissue regeneration is regulated by immune cells, specifically T cells,” Shi says. His work has shown that changing the T cells’ activity—even with something as simple as aspirin—improves tissue regrowth.

Illustrative close-up of an eight-cell stage stem cell cluster.
With help from willing volunteers—like this bug with a set of teeth—we teach children proper oral health care.

COMMUNITY OUTREACH IS OUR DUTY.

In her work with our Community Oral Health Programs, Dr. Michelle Aeck spends a lot of time on the road. The faculty member—and executive director of the Children’s Health Access and Medical Program—visits underserved neighborhoods where she teaches children the importance of keeping their smiles healthy. This year, the Ostrow School of Dentistry received an $18.4 million First 5 LA grant—the largest in our School’s history—to help us reach almost 50,000 more disadvantaged youth in the next five years.

Above: Dr. Michelle Aeck teaches young children the basics of good oral health care.
ART AND SCIENCE MUST COEXIST.

First-year dental students in Dr. Pascal Magne’s Dental Morphology, Function, and Esthetics class learn not only about tooth structure but also about using both sides of their brain. Using what Magne terms a "2-D-3-D-4-D" approach, students first draw a tooth, then sculpt tooth structures in wax, and then build tooth layers with acrylic and composite resin. "Dentistry is a form of art; therefore, first we try to unleash the artist within each student," he says.

Above: Dr. Pascal Magne, Don and Sybil Harrington Professor of Esthetic Dentistry, directs Dental Morphology, Function and Esthetics to first-year DDS students.

Lingual anatomy of extracted human lateral incisor coated with silver powder.
We’ve raised more than $10 million in the past decade for scholarships.

Edward Rugama first dreamed of becoming a dentist at 5 years old. It was a long shot because Rugama’s family didn’t have money for college. The young man defied the odds, though, becoming his family’s first college graduate. This spring, he’ll receive a DDS degree, thanks in part to the Foutz scholarship. “I wouldn’t have been able to attend USC without this scholarship,” he says. “I’m truly grateful for the opportunity to pursue my dreams.”

Above: Edward Rugama DDS ’13 has been able to study with less financial worry thanks to the Dr. Reynold L. and M. Vivian Foutz Endowed Scholarship.

SCHOLARSHIPS BRING DREAMS WITHIN REACH.
Revenue Total: $110,724,000

<table>
<thead>
<tr>
<th>Revenue Source</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>75%</td>
</tr>
<tr>
<td>Gift and Grant Support</td>
<td>13%</td>
</tr>
<tr>
<td>Clinics</td>
<td>9%</td>
</tr>
<tr>
<td>Other / Continuing Professional Oral Health Education</td>
<td>1%</td>
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2012 Projected Revenue Breakdown

Operating Expenses (Not including gifts or grants)

<table>
<thead>
<tr>
<th>Expense Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries</td>
<td>52%</td>
</tr>
<tr>
<td>Clinics / Patient Care</td>
<td>33%</td>
</tr>
<tr>
<td>Education (including Facilities, Teaching Materials, Operating Budgets, Etc.)</td>
<td>12%</td>
</tr>
<tr>
<td>Research</td>
<td>3%</td>
</tr>
</tbody>
</table>

2012 Operating Expenses

(Not including gifts or grants)
Our Donors

$1,000,000 AND UP
Edward and Virginia Lew

$500,000–$999,999
Carol Summershay

$300,000–$499,999
Edward Ruiz and Nila Caiguit
Mark Edward Taras
Samuel R. Taras

$150,000–$299,999
Lawrence Bailey
David Phoon Choe
Dorick and Yoko Tagawa
Valent Inc.

$50,000–$149,999
Alexandre Amor and Alma Adam
Ralph and Sigrid Allman
Kathleen E. Bise
The California Wellness Foundation
Stanton R. Castner
Su-Wen Chang
Vivian W. Chou
Charles A. Dana Foundation
Frank and Gina Enriquez
Gary and Susie Hartzman
March of Dimes
Procter & Gamble
Mid and Linda Rowan
Abdi Sameni
Aronoff and Vena Seder
Linda Tarson
Donald Fat and Carolyn Tornay
UniHealth Foundation
Stephen and Lynne Wheeler

$25,000–$49,999
3M Empyre
Samir and Enam Batsui
Wayne and Peggy Remis
S. Shawn Daneshgar
Steven Yungta Huang
W. Michael Madden
The Ralph M. Parsons Foundation
Wayne Wong

$10,000–$24,999
American Heart Association Inc.
John and Nalenna Aschieri
Michelle Hogan Brister
John Ann Chau
Dental Maternal Neurological
Deisseron Family Foundation
David W. Eggleston
Ellis-Falzeder Charitable Foundation
Hussain Inc.
Robert E. Huntington
Gloria J. Kaplan
Patterson Foundation
The Pfeiffer Foundation
Procare Oral Solutions Inc.
Barbara and Roger Rosset
Myochair United Corporation
John D. West

$5,000–$9,999
American Physical Therapy Association
Stanley and Joyce Black
David and Susan Chin
W. Howard Davis
Scott Fishman
Gregory D. Kaplan
Howard M. Lendenman
Michael T. C. Ma
Bruce G. Muff
Newport Harbor Academy of Dentistry
Oncology Cure Foundation
Renaissance Charitable Foundation Inc.
Revell Training & Development
Annie Chiu Su
Macolin Swarthy
Frank K. Yost

$2,500–$4,999
American College of Prosthodontics Education Foundation
Scott and Lee Ashby
Wilson Baugh
Frank T. Curry
DENTISTRY International
Donald C. Dorman
Paul Guggenheim
International Society of Biomechanics
Ivoclar Vivadent Inc.
Mary M. N. Jew
Thomas Levy
Michael Long
North American Society for the Psychology of Sport and Physical Activity
Plaza Dental
Smallest Songwriter
James Howard Simon
John W. Westmoreland
Andrew S.H. Wong
Honman M. Zaritskalk

$1,000–$2,499
A1D Research Foundation
Marc Anderson
Gregory Ryan Anthony
Parvez Anwar
Fred T. Barry
Jack Banyyan
Ruth C. Blair
Linda Brookman
Paul J. Cornell
Winston Chee
Roy Chin
Janine C. Choi
Colgate Speakers Bureau
John C. Detrani
The Dentists Insurance Company
Justin Do
Margie Draper
Leo MacIntosh Ellis
John Ferris
GC Advanced Technologies
Robert B. Gerber
George T. Goodis
Mark Heiss
George Benton Hester
Charles Timothy Hickel
Katherine Hirose-Ishizaka
Victoria Wong Ho
Joelle Holden
Yungta Huang
Philip Ming-Hsi Huang
Ho-Friendly
Henry K. Kawasaki
Steven Kallman
David G. Klein
Komet USA LLC
Franklin Kometami
Terrence K. Lau
Janet Lent
Terry Lim
Annette Lyle
William Edwin Lyons

$500–$999
Randall H. Avedeo
David W. Alfino
Robert Michael Alvarez
Mark J. Baldwin
Jennifer L. Beilwitz
Benco Dental
John Robert Bortola
Brasseler USA
Budbank Dental Laboratory Inc.
Hubert Kay Chau
Matthew C. Cleart
Steven B. Chou
Douglas J. Cooper
Katherine Mary Young Cope
Martin Courtney
Robert D. Cudone
Cyber Medical Imaging Inc.
William M. Dunn
Design Center Inc.
Designs for Vision Inc.
Ortho-Dents
Edison International
John Fried
Gesellschaft fuer den Dienst der Zahnmedizin
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Geoff Goodis
Mark Heiss
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Henry K. Kawasaki
Steven Kallman
David G. Klein
Komet USA LLC
Franklin Kometami
Terrence K. Lau
Janet Lent
Terry Lim
Annette Lyle
William Edwin Lyons

John L. Mc Andrew
John D. McQuillen
The Medical Protective Company
Greg Miguel
Maddie Montgomery
Iona S. Mozer
Faron M. Nowabi
Hay Team Ngo
Loi E. Nordstrom
Dennis Paul Nutter
Christopher Oates
Obettra Spartan
Pacific Dental Services
Seung W. Paik
Dennis Papp and Associates
Ryan C. Parrott
Premier Pindashe Co.
Corina Ramirez
Nikhil B. Rappoport
Stephen Rasch
Rafael A. Regal
Andrew Nachtman
R. F. Saldanha
Shofu Dental Corporation
Frederick C. Staley
Charleen A. Stein
Hong-Suk Suh
Katherine Anita Thomson
Robert Eriq Tingen
Cindy L. Tipton
Williams Toth
Anthony Truong Tran
Ultra Light Optics
Elana E. Vaughan
Frank J. Williams
Laura Witternauer
Richard C. Witternauer
Ronald Wolf
Curita R. Wong
Davina-Duke Ryuichi Yamashita
Daniel S. Yankovich

$1–$499
Joel Baer
Robert L. Baust
Lisa L. Berman
Stewart M. Bradford
Steven Brazeau
Karin Brandt
Sunset Brasil
Elisa M. Braga
James H. Brenner
Lynn Ronald Bridge
Daniel Branca
Betty Bont
Christina Bratt
Gregory Matthew Brooks
Diana Bronnamdi
Augusto Brown
Jack Brown
John C. Brown
Norma H. Butch
Karen L. Burgess
Norma U. Burr
Tommy Burt
L. Nelson Butler
California Coast Dental Arts
Timothy A. Caliguire
Susanna Marie Cammann
Ray Cannon
Annette Casillas
Michael Stephen Casagrande
Rose Casasanta
Ernest L. Casares
Matthew R. Casey
Denise A. Castañeda Silva
Olga Scott Casto
P. Cavaldini
Yang Chai
Patrick Y. Challita
In a time when 100 million Americans cannot afford to see a dentist, the Ostrow School of Dentistry strives to bridge the gap to dental care access by offering a wide range of services at affordable rates. Not only do we provide care here at the School, we’re also in some of Southern California’s most underserved neighborhoods treating children, the elderly, and our city’s homeless population. These programs foster a sense of social responsibility in our student population and, perhaps most importantly, ensure the smiles of underserved individuals stay healthy for years to come.

**Facilities**

**Norris Dental Science Center**—Located on USC’s University Park campus, this low-cost clinic provides services ranging from routine dental cleanings to more complex procedures performed in our specialty clinics. Students provide treatment here under the careful supervision of our expert faculty members.

**Faculty Practice**—Recently relocated to the new Engemann Student Health Center on the University Park campus, this clinic is the dental practice arm of the Ostrow School of Dentistry. Our faculty members provide treatment for USC faculty, staff, and students as well the general public.

**Community Clinics**—With an array of mobile dental clinics that visit area schools, a group of fixed-satellite clinics, and community partnerships, we extend our reach into some of the city’s most underserved neighborhoods.

**Community Oral Health Programs**

The Ostrow School of Dentistry has 36 community oral health programs, including our mobile dental clinics; Hollenbeck-Palms, a continuing care retirement home; and Union Rescue Mission, one of the nation’s only school-run clinics dedicated solely to the homeless population.
PATIENT CARE

~67,000
Total number of individuals seen by Ostrow students and residents

88
Percentage of our 2012 graduates that reported community health programs as one of the greatest assets in preparing them to practice dentistry

Number of patients served by our Community Oral Health Programs

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Because we believe no one should give up on a dream due to financial hardship, the Ostrow School of Dentistry strives to match talented students with financial aid so they can pursue their educational goals. The following alumni, friends, and family members have gifted Ostrow with educational endowments to help us provide scholarships for future generations:

Herbert Benton Endowed Scholarship
Violet S. Bonney Endowed Dental Hygiene Scholarship
Edward and Niloufer Cainglit Endowed Scholarship
Century Club Endowed Scholarship
Su-Wen Chang Endowed Scholarship
Leslie and Nancy Christensen Endowed Scholarship
Class of 1964 Endowed Scholarship
Albert and Grace Colby Endowed Scholarship
Dental Alumni Association Endowed Scholarship
Dental Hygiene Endowed Scholarship
Clifton Dummett Endowed Scholarship
Wesley A. and Helen M. Feith Endowed Fund
Louis and Erma Feldman Endowed Scholarship
Herbert Finley Memorial Scholarship
Dr. Reynold L. and M. Vivian Foutz Endowed Scholarship
Lourya K. Freedman Endowed Scholarship
Friends of Dentistry Endowed Scholarship
Graduate Orthodontic Endowed Scholarship
Dr. Neil Graham Endowed Scholarship
Charles and Shirley Goldstein Endowed Community Service Award
Erric Green, DDS Memorial Fund
Guerrieri Family Endowed Scholarship
Guy C. Ho Endowed Scholarship
L. Edna Hatcher Hughes, DDS Endowed Scholarship
M. Louise Jung, DDS Endowed Scholarship
Alex Koper Endowed Scholarship
Howard M. Landesman Endowed Scholarship
Edward K. and Ginny O. Lew Endowed Scholarship
John J. and Marcia L. Lytle Endowed Scholarship
Joanne Mayne Endowed Scholarship
Ned Momary Endowed Scholarship
G. Donald Montgomery Endowed Scholarship
William Motley Endowed DDS Scholarship
Wilma E. Motley Endowed Dental Hygiene Scholarship
George A. and Anne-Merlie Murrell Endowed Scholarship
Norman R. Page Endowed Scholarship
Alfred and Kathleen Pellicciotti Endowed Scholarship
Carol Anne Pincus Endowed Scholarship
Carl Rieder Endowed Scholarship
Charles V. Schutz Scholarship Fund
E. David Shooshan Endowed Scholarship
Dr. and Mrs. J.A. Slaughter Endowed Scholarship
Max Sosin Endowed Scholarship
Cecil C. Steiner Endowed Scholarship
David and Suci Stevenson Award
Tarica Family Endowed Scholarship
Linda Tarrson Endowed Scholarship
Ruth Van Zile Endowed Scholarship in Oral and Maxillofacial Surgery
Leo and Sydelle Ward Foundation
Endowed Scholarship
Ansel and Marjorie W. Watrous Endowed Scholarship
Tracy Wong Endowed Scholarship
Ian Woo Endowed Scholarship
Yoshio Yamaguchi/Academy for Excellence in Dentistry Endowed Scholarship
Karl Hilton Young Endowed Scholarship
84 percent of dental hygiene students receive financial aid.

87 percent of DDS students receive financial aid.

78 percent of ASPID students receive financial aid.
Continuing Education

The Ostrow School of Dentistry’s Continuing Education program provides life-long learning opportunities to oral health care professionals all over the world. With more than 100 courses, including lectures, hands-on workshops, and travel courses, the Continuing Education program helps dental practitioners stay apace in an ever-changing world.

>30

Our Continuing Education program has increased its global footprint, with students hailing from more than 30 countries.
CONTINUING EDUCATION

$3M
Last year, Continuing Education raised more than $3 million, representing a significant increase in our operating budget.

60,000
The number of dental professionals who are now on our mailing list has increased substantially to include more than 60,000 professionals.

~3,500
Number of dental professionals who chose the Ostrow School of Dentistry as their Continuing Education provider

120
Number of instructors—the majority of whom are USC faculty members—teaching Continuing Education courses

36
Number of Continuing Education courses offered online
The Ostrow School of Dentistry of USC has long been a leader in dental and craniofacial research. Topics currently being explored by Ostrow investigators include the development of the head, face, and mouth; microbial infections and biofilms; stem cell regeneration and tissue restoration; head and neck cancer; dental public health and disease prevention; diagnosis of disease via saliva; and much more.

2012 Research Honors and Highlights:

- Associate Dean of Research Yang Chai was named chair of the National Institute of Dental and Craniofacial Research Board of Scientific Counselors. A total of nine board members, including the chair, are selected from among the most accomplished and celebrated experts in biomedical, dental, and craniofacial science; Chai has been a member of the board since 2008.

- A study appearing in *Cell Stem Cell* and led by Ostrow professor Songtao Shi outlined the specifics of how autoimmune disorders such as lupus and rheumatoid arthritis can be controlled by infusions of mesenchymal stem cells.

- Poor oral health, dental disease, and tooth pain can put kids at a serious disadvantage in school, according to an Ostrow study published in the *American Journal of Public Health*. Author and Division of Dental Public Health and Pediatric Dentistry Chair Roseann Mulligan said kids who had oral health problems were more likely to miss school and have a lower grade point average than their peers.

- Ostrow School of Dentistry postdoctoral research associates Yi Liu and Junichi Iwata received the School’s first-ever Innovative Scientific Achievement Awards honoring prestigious scientific publications authored by Ostrow students and post-doctoral fellows. Liu authored a November 2011 *Nature Medicine* article outlining the effects of a stem cell transplant recipient’s immune system on successful tissue regeneration, and Iwata authored a February 2012 article in the *Journal of Clinical Investigation* regarding the cellular pathway involved in the onset of Loeys-Dietz syndrome.

- The American Association of Dental Editors honored *The Explorer*, a magazine published by the Ostrow School of Dentistry Student Research Group, as the best North American dental student publication of 2011 with the 2012 Lawrence H. Meskin Award.
92
Research articles published by Ostrow researchers in 2012

32
Research associates and postdoctoral research associates

15
Visiting scholars

Total grants to the Ostrow School of Dentistry in 2012: $9,248,317
The Ostrow School of Dentistry has been educating some of the industry’s finest dental practitioners since 1897. While staying focused on the fundamentals necessary for a successful dental career, we are dedicated to remaining at the forefront of dentistry well into the 21st century. To accomplish that, we’ve pushed our curriculum in more innovative ways, including teaching students to use the latest in technology, offering an ever-growing number of online education programs, and focusing on the artistry behind dentistry.

**Academic Programs**
- Doctor of Dental Surgery
- Bachelor of Science, Dental Hygiene
- Master of Science, Dental Hygiene
- Advanced Standing Program for International Dentists
- Master of Science, Craniofacial Biology
- Master of Science, Orofacial Pain/Oral Medicine
- Master of Science, Geriatric Dentistry
- Doctor of Philosophy, Craniofacial Biology

**Postdoctoral Degrees**
- Endodontics, General Practice, Operative Dentistry, Oral and Maxillofacial Surgery,
- Oral and Maxillofacial Surgery/MD (Keck School of Medicine partnered program),
- Oral Medicine, Orofacial Pain, Orthodontics, Pediatric Dentistry,
- Periodontics, and Prosthodontics

**Faculty & Staff**
- 95 Full-Time Faculty
- 166 Part-Time Faculty
- 303 Volunteer Faculty
- 311 Staff Members
SCHOOL OVERVIEW

Dental Admission Test scores
Academic Average: 20
Science: 20
Perceptual Ability Test: 20.3

Applications received: >3,400
Students admitted: 144

DDS admissions

Average GPAs
Sciences: 3.10
Overall: 3.23

Applications received: >225
Students admitted: 40

DH admissions

Applications received: 556
Students admitted: 35

ASPID admissions

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FINANCIAL INFORMATION

$106M
The School’s 2012 operating budget, including the divisions of Occupational Science & Occupational Therapy and Biokinesiology & Physical Therapy

5TH
Our budget is the fifth largest of all academic units across the University.

>$100M
The School’s endowment has a market value of greater than $100 million, ensuring our financial stability well into the 21st century.

4 YEARS
The Ostrow School of Dentistry has enjoyed four consecutive years of growth, earning stability, and sound investment.

TOP 5 GIFT ACCOUNTS FOR 2012 BASED ON NUMBER OF GIFTS
Dean’s Renaissance Fund, Century Club, Community Dentistry, Dental Hygiene, and Dental Alumni

Ostrow School of Dentistry of USC
In March 2012, the Ostrow School became the second academic unit at USC to launch its fundraising initiative of $115 million. It is only through the generosity of our alumni, corporate, and philanthropic friends that we have been able to position ourselves as one of the top dental schools in the nation.

The Ostrow School of Dentistry set out to raise $115 million—more than any other dental school—as part of the Campaign for USC. So far, we’ve raised more than $50 million toward our goal.