

Stein Eye Institute 50 Years of Vision: Patient Care

It was just another routine day for patient care at the UCLA Stein Eye Institute.

By 5:45 a.m., pre-op nurses are busy preparing the outpatient surgical center in the Edie & Lew Wasserman Building for a day-long lineup of procedures that begins at 7:30 a.m.

Across the courtyard in the Jules Stein Building and the Doris Stein Building, clinics and offices are opening at 7:15 a.m. for appointments: eye examinations, injections, fittings for contact lenses, diagnostic review, genetic testing, and more.

The schedule for surgery, appointments, and examinations is busy and constant. The last exams begin at 4:30 p.m., the concluding surgery at 5 p.m., with the last patients leaving recovery rooms at 7:30 p.m. But the day continues in a 24-hour cycle, with Institute physicians taking on emergency cases at the Ronald Reagan UCLA Medical Center throughout the night.

All told, the Institute treats more than 1,000 patients on that routine day: some 491 appointments; 89 surgical procedures; 326 diagnostic tests; and 115 visits for postoperative checkups, with care ranging from routine eye examinations to complex surgical procedures performed nowhere else. And across Southern California, even more patients are treated by Institute doctors, residents, and fellows at UCLA-affiliated hospitals.

“Yes—it’s just another routine day,” says **Bartly J. Mondino, MD**, chairman of the UCLA Department of Ophthalmology and director of the Stein Eye Institute.

The starting point and the ultimate result

“Patient care is a critical force behind everything the Institute strives to achieve,” says Dr. Mondino. “Patient care is perhaps the ultimate expression of our research and educational activities.”

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The Institute’s philosophy about patient care has been unaltered since its founding: patient care is a primary goal and perhaps the ultimate result of everything the Institute strives to achieve.

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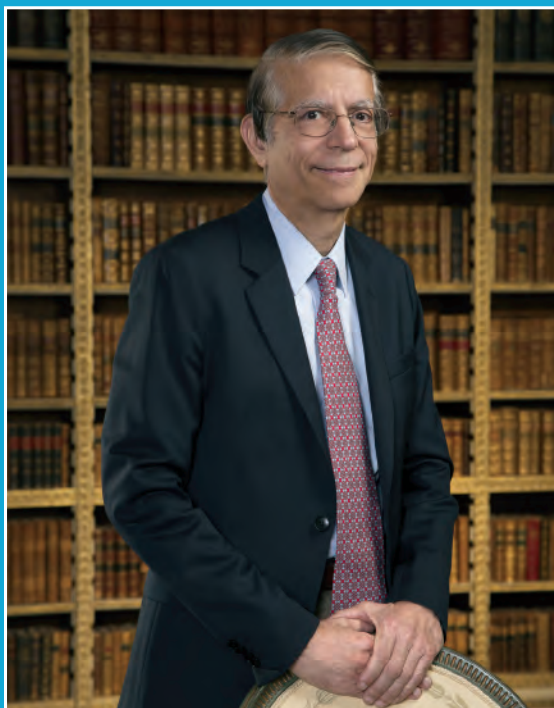
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Letter from the Chair

Since the Stein Eye Institute opened its doors 50 years ago, patient care has been a priority—perhaps the ultimate expression of our research and educational activities. Patient care is a driving force behind everything we strive to achieve. And through this important focus, the Stein Eye Institute has become one of the world’s premier vision-care facilities.

How will patient care at the Institute evolve in the next 50 years? Through the same time-tested cycle employed over the last half-century: the training of future generations of clinicians and researchers combined with the constantly-evolving process of current treatment leading to new questions that are explored in research, which inspires new tools and techniques that are used in clinical trials, ultimately producing new forms of care.

The Institute’s focus on the protection of eyesight also extends far beyond our vision-science campus, with UCLA Department of Ophthalmology faculty caring for low-income high-risk patients in underserved communities both locally and globally. Through Stein Eye Institute-affiliated hospitals and outreach programs like the UCLA Mobile Eye Clinic, we strive every day to meet the needs of our most vulnerable populations—helping to ensure that everyone has the precious gift of sight.

Thank you for your dedication to the preservation and restoration of vision, and thank you for your continued support of the Stein Eye Institute.

Sincerely,

Bartly J. Mondino, MD
 Director, Stein Eye Institute
 Chairman, UCLA Department of
 Ophthalmology

That philosophy has been unaltered since the Stein Eye Institute’s founding in 1966. With 11 different divisions and unique issues specific to each case, every patient is different. Yet there is a fundamental strategy for care that affects every patient at Stein Eye: at the core of all care is trust—the confidence inspired by the doctor-patient relationship that is especially important in ophthalmology because of the indispensable value that patients place on their vision.

“Numerous surveys have shown that Americans fear blindness more than heart disease, which is the primary killer in this country,” says **Joseph Caprioli, MD**, David May II Endowed Chair in Ophthalmology and chief of the Glaucoma Division. “Another poll showed that other than death, losing eyesight was considered the worst thing that could happen to a person.”

“Trust is vital, whether patient care at the Institute involves a one-time procedure such as replacing a cornea, or ongoing treatment that could continue for years,” says Dr. Caprioli.

Providing care as a last resort

The commitment to patient relationships is especially important when treating the hundreds of people who come to the Institute each year as the final hope for their eyesight.

“We are particularly mindful,” says **Kevin M. Miller, MD**, Kolokotronis Chair in Ophthalmology and chief of the Cataract and Refractive Surgery Division, “about building trust for those who consider the Institute to be their last resort—patients who turn to us when they have exhausted every other avenue of treatment.”

Serving as a hub for eleventh-hour vision care is a vital aspect of Stein Eye’s role as a partner with the greater medical community. The Institute is designated as a tertiary referral center, where doctors and hospitals throughout the United States, as well as Mexico, direct patients with the most challenging vision problems.

“We take on the most complicated cases,” says **Anthony J. Aldave, MD**, Walton Li Chair in Cornea and Uveitis, and chief of the Cornea and Uveitis Division. “The Institute treats the more common eye problems very well, but our major strength is dealing with the difficult issues.”

“The greater medical community counts on the Institute as a resource for solving complicated ophthalmic problems—for providing a level of care that no one else can,” says Dr. Aldave.



When tragedy struck war-torn Croatia, Institute doctors assumed responsibility for one of the conflict’s most severely harmed. In April 1993, 12-year-old Sead Bekric was playing soccer in the embattled Bosnian city of Srebrenica when an artillery shell exploded on the field. Sead was blinded by the explosion, and his wounds worsened when his eyes became infected. Almost left to die, with the help of relief organization AmeriCares and support from Croatian-American flashlight manufacturer Anthony Maglica (center), Sead was transported to the Stein Eye Institute. Ophthalmologists Dr. Robert Goldberg (left) and Dr. Marc Yoshizumi operated on Sead in a seven-hour procedure that sutured his right eye back together and rebuilt his forehead and the left eye socket. Although Sead’s sight could not be restored, the infections in his eyes that nearly killed him were controlled, saving his life.



Serving as a hub for eleventh-hour vision care is a vital aspect of Stein Eye’s role as a partner with the greater medical community. The Institute is designated as a tertiary referral center, where doctors and hospitals throughout the United States, as well as Mexico, send patients with the most challenging vision problems.

“We see developments almost every day: greater precision, smaller incisions, more detailed imagery, better ways to identify problems, new treatments for the previously untreatable—all of these elements are changing patient care for the better.”

Dr. Bartly Mondino

Ultra fast, ultra precise

A large measure of change in patient care over a half-century of progress at the Institute can be found in the ongoing refinement in tools for diagnosis and surgery, which today are less invasive, safer, and allow for faster recovery.

The medical laser, for example, was a major step forward when it became a standard instrument for eye surgery in 1995. However, with the introduction of the femtosecond laser, which emits optical pulses of a few femtoseconds (one-millionth of one-billionth of a second) and other surgical tools that are supported by digital imaging systems, the result is ultra-precise surgical procedures—precision, explains Dr. Miller, “that results in faster visual rehabilitation, less astigmatism, and stronger wound healing.”

Such tools produce benefits for today’s care, but Institute doctors view them as only a current step as they look toward how the development of instruments, digital guidance, and imagery are continuing to evolve for advanced procedures yet to come.

“With such accuracy at our disposal,” says **David Rex Hamilton, MD, FACS**, director of the UCLA Laser Refractive Center, “the coming generations of these lasers and the equipment to support them will open avenues of treatment that have never been possible before.”

The transformation of care

Perhaps the biggest movement in patient care began to develop during the mid-1980s with the convergence of medical issues and new government policies. As a result of major revisions in funding for Medicare, surgical procedures in ophthalmology began shifting from the traditional focus on inpatient surgery to outpatient procedures.

But the changes to treatments and surgical procedures that evolved in the wake of these policies have reshaped ophthalmology in ways that have transformed patient care for the better.

“We rethought everything about how we did our work—recognizing we needed to maintain the safety and success of our procedures,” says Dr. Miller. “The results have produced extraordinary benefits for our patients; our procedures are faster, more accurate, and recovery times are quicker.”

For example, a surgery for cataracts that in 1980 involved an overnight stay before surgery and two to four days in the hospital afterward now requires a brief check-in period, followed by a 10 to 20 minute procedure, and a few hours of recovery. A patient who arrives at the Institute with cataracts at 7:30 in the morning goes home with clearer vision after lunch.

That philosophy of rethinking patient care culminated in September 2015, when the Institute’s new outpatient surgical center opened—facilities that bring greater patient comfort and convenience to surgery.

“The outpatient surgical center houses the best facilities to complement the talents of our medical team, while providing a relaxed, open environment for our patients and their families,” says Dr. Mondino.

Zeroing in on the individual

How will patient care at the Institute evolve in the next 50 years? Through the same time-tested cycle employed over the last half-century: the constantly-evolving process of current treatment leading to new questions that are explored in research, which inspires new tools and techniques that are used in clinical trials, ultimately producing new forms of care.

And the cycle goes on.

“We are on many enlightening tracks in improving patient care,” says Dr. Mondino. “We see developments almost every day: greater precision, smaller incisions, more detailed imagery, better ways to identify problems, new treatments for the previously untreatable—all of these elements are changing patient care for the better.”

A ROUTINE DAY AT THE INSTITUTE

1,000
PATIENTS

491
APPOINTMENTS

89
SURGICAL PROCEDURES

326
DIAGNOSTIC TESTS

115
POSTOPERATIVE CHECKUPS

UCLA Vision Rehabilitation Center: empowering patients with low vision

Not every vision problem can be solved; when a patient’s vision is severely limited and no treatment options remain, what is the next step?

In 1996, the Institute formed the UCLA Vision Rehabilitation Center to help patients function independently even if visually impaired.

“For patients who have exhausted all medical and surgical options, vision rehabilitation can greatly improve quality of life by helping them better use the vision they have,” says **Melissa W. Chun, OD**, director of the UCLA Vision Rehabilitation Center.

At the center, patients are provided with an individualized rehabilitation plan, which may include use of low-vision devices, such as magnifiers, telescopes, and digital and computer technology. “We empower patients to take control of their lives despite their visual impairment.”



Community Outreach

The Stein Eye Institute is committed to providing vision care where it is needed most—whether for the underserved in Southern California or in countries around the world.

“The vast majority of vision problems in underserved populations are treatable. The only barrier to cures is access to care.”

Dr. Anne Coleman



Stein Eye's outreach programs serve communities who might otherwise not have access to vision care.

Angelina was 12 months old and cried constantly, but no one could figure out why. Her development was delayed; she did not crawl, and she would just sit, forlorn and sobbing. Angelina's family—living below the poverty line in South Los Angeles—had nowhere to turn until their pediatrician picked up the hint of an answer: a possible problem with Angelina's eyes.

Angelina's family brought her to the UCLA Mobile Eye Clinic (UMEC), the Stein Eye Institute's custom-equipped bus, which was making one of its regularly scheduled stops in their neighborhood. **Anne L. Coleman, MD, PhD**, immediately found the cause: congenital glaucoma, which was causing Angelina pain and gradual loss of sight.

An operation by Dr. Coleman—director of the Stein Eye Institute Center for Community Outreach and Policy, UCLA Center for Eye Epidemiology, and the UMEC—stopped the progression of the glaucoma. By the next morning, the change in Angelina's behavior was striking.

“We took off the bandages, and Angelina wasn't crying—she was looking around,” remembers Dr. Coleman. “When she came for a follow-up visit, she was running in the office. Angelina had never done anything because she could not see; all of a sudden she could see and navigate her world, which transformed her life.”

Angelina's story underscores the challenges of community health and the Institute's role in providing vision care for patients without access to care or money for insurance. Developing comprehensive health programs has been a guiding philosophy for the Stein Eye Institute since its earliest days.

And the Institute takes the broadest possible view of the definition of “community” in its vision care and training.

“While the primary focus of our community health programs is in Southern California, our work extends to wherever there is the need,” says Dr. Mondino. “That can mean everything from offering basic eye examinations for preschool children in Los Angeles to performing blindness-prevention surgery in low-resource countries.”

Going to where the need is greatest

How can a medical organization develop the most effective vision care for populations whose needs are often overlooked? For more than 50 years the Stein Eye Institute's answer has been by providing patient care not only at the Institute in Westwood, but also directly to where it is needed most: in the neighborhoods of at-risk patients.

The challenge is amplified by issues more common in ophthalmology than in most other medical specialties: at the top of the list is that patients who are most in need of eye care are often unaware that they have a vision problem.

To deal with these challenges, the Institute offers locally based vision care. Working from the UMEC, medical teams of ophthalmologists, optometrists, technicians, residents, and volunteers serve low-income families and the homeless at health fairs and clinics for schools, seniors, and homeless shelters.

Quite often, simple solutions can be transformational; at a single health fair screening in 2015, for example, the vast majority of vision concerns identified at the UMEC were easily corrected with glasses, making a tangible difference in the patients' personal lives as well as their prospects for employment.

“When we ask homeless people about their medical care in general,” says Dr. Coleman, “the first thing they always want are glasses.”

The UMEC received a \$4.1 million grant from the First 5 LA commission in 2013 and earned the 2015 Innovation Award for Community Service from the Los Angeles County Medical Association and the Patient Care Foundation of Los Angeles County for exemplary leadership in shaping the future of health care. Since the UMEC's founding in 1975, approximately 230,000 patients across the southland have received vital eye care.

Children are the priority

Outreach is particularly important for children; an estimated one in five preschool children has a vision concern, most of which their parents were unaware existed until the Institute's screening.

“We routinely examine children who have fallen behind in school simply because they can't clearly see the teacher or the whiteboard. These are problems that parents usually associate with lack of interest or low ambition,” says **Rene Galvan**, an ophthalmic assistant with the UMEC. “They often never consider that the issues might be caused by difficulties with vision.”



Dr. Anthony Aldave demonstrates partial thickness corneal transplant surgery to local eye surgeons during a Visionaries International expedition to Yerevan, Armenia.





Some of the approximately 2,000 attendees who sought eye services during the four-day long CareNow/LA Free Clinic.

And questions of behavior, learning, or social contacts that are attributed to other causes are frequently found to have roots in low vision.

“Poor eyesight can inhibit social interactions,” explains Dr. Coleman. “If a student can’t see other children clearly, they often won’t connect well; as a result, a child can become a social outcast simply because of trouble with their vision. Those problems lead to a downward spiral in classroom achievement and personal socialization—issues that can be easily corrected through improved sight.”

Freddie, a six-year-old boy had chronic headaches, was depressed, and said he “hated school.” A screening at the UMEC revealed he required a simple vision correction that was accomplished with glasses.

Two weeks later, the follow-up appointment confirmed Freddie could see perfectly.

“He loves his glasses and won’t take them off,” Freddie’s mother says. “He even sleeps with them. Now he loves school and is reading all the time.”

Affiliations in caring

The Institute’s involvement in community health extends to its involvement with its affiliated hospitals: Olive View-UCLA in Sylmar, Harbor-UCLA Medical Center in Torrance, and the Veterans Affairs (V.A.) Greater Los Angeles Healthcare System facilities at West Los Angeles and Sepulveda.

“The Stein Eye Institute’s relationship with our affiliated hospitals are creating tremendous improvements in eye care,” says Dr. Mondino.

Olive View and Harbor-UCLA serve diverse and multilingual patient populations who often have little or no alternatives for medical care. For the V.A., the Institute oversees all clinical, diagnostic, and surgical eye care for our country’s veterans. The Institute also treats the vision concerns of homeless veterans.

“Many of our patients come to us when their symptoms are seriously advanced—they look for medical care only as a last resort when they can no longer function in daily life—so the need for immediate treatment is great,” says **Pradeep S. Prasad, MD**, chief of the Division of Ophthalmology at Harbor-UCLA.

Community health for the world

Institute doctors, residents, and alumni are engaged in outreach programs in countries throughout the world, delivering critical eye care and training local doctors to serve regions with the greatest need.

Visionaries International (VI), for example, is a non-profit humanitarian organization dedicated to reducing corneal blindness worldwide. Founded by UCLA Department of Ophthalmology faculty member, **Anthony J. Aldave, MD**, VI volunteers travel across the globe to teach local surgeons both traditional and novel forms of corneal transplantation surgery and help to facilitate the development and growth of eye banks.

Stein Eye alumnus **Harry S. Brown, MD**, became interested in international ophthalmology during his residency training at the Stein Eye Institute (1970), and he founded Surgical Eye Expeditions (SEE) International shortly thereafter. With supplies donated by the ophthalmic industry, SEE has performed over 440,000 procedures in more than 35 countries since its inception.

The challenges to come

What are the issues that will affect the future of community eye health? Many of the primary concerns today are likely to continue tomorrow: patients not wearing glasses or using incorrect glasses; cataracts; or conditions that flourish because of lack of regular checkups, such as glaucoma. Add to the list: the questions of providing services to an aging population; and the increase in eye issues that are the byproduct of other sicknesses that affect underserved populations, such as retinal damage caused by diabetes.

“It’s important to remember that the vast majority of vision problems in underserved populations are treatable,” says Dr. Coleman. “The only barrier to cures is access to care.”



Dr. Richard Yook visits with a patient on his SEE International expedition to India.



Dr. Dorothy Khong poses with patients whose sight she helped restore while on a SEE International Expedition to Vietnam in 2010.

Stein Eye Community Outreach Programs

- ▶ Harbor-UCLA Medical Center
- ▶ Olive View-UCLA Medical Center
- ▶ Veterans Affairs Greater Los Angeles Healthcare System facilities at West Los Angeles and Sepulveda
- ▶ UCLA Mobile Eye Clinic
- ▶ Indigent Children and Families Ophthalmic Care Program
- ▶ MagniVision Program
- ▶ Pediatric Contact Lens Fund
- ▶ Preschool Vision Screening Program
- ▶ Shared Vision Program
- ▶ Summer Vision Program in Los Angeles County Libraries
- ▶ Telemedicine Program
- ▶ Vision IN-School
- ▶ Vision Screening in Elementary Schools
- ▶ Care Harbor Los Angeles
- ▶ Community Health Fairs
- ▶ St. Francis Homeless Center
- ▶ St. Joseph’s Homeless Center
- ▶ Venice Family Clinic
- ▶ West Hollywood Homeless Project

Dr. Dean Bok Awarded Prestigious Helen Keller Prize for Vision Research

Dean Bok, PhD, Dolly Green Chair of Ophthalmology, received the Helen Keller Prize for Vision Research at the May 1–6, 2016, Association for Research in Vision and Ophthalmology meeting in Seattle, Washington. Dr. Bok was honored for more than four decades of discoveries in the field of retinal cell biology. Through his study of molecular complexes in the retinal pigment epithelium, Dr. Bok has significantly improved the understanding of macular degeneration, which damages vision in as many as 11 million people in the United States.

“Helen Keller died in 1968, the same year Dr. Dean Bok received his doctorate degree, and she knew the pace of vision research was accelerating,” noted Robert Morris, MD, president and co-founder of the Helen Keller Foundation for Research and Education. “As much as anyone in subsequent decades, Dr. Bok embodies the progress Helen Keller foresaw.”



2016 Helen Keller Laureate Dr. Dean Bok stands with Helen Keller's great grand niece, Keller Johnson-Thompson, the vice president for education of the Helen Keller Foundation.

New UCLA Department of Ophthalmology Faculty

The UCLA Department of Ophthalmology is pleased to welcome new faculty member, **M. Ali Khan, MD**, who was appointed assistant professor of ophthalmology on September 16, 2016.

Following a Study Abroad Program in International Law at the Graduate Institute of International Studies in Geneva, Switzerland, Dr. Khan graduated summa cum laude from the University of Southern California with a Bachelor of Arts degree in political science and biological sciences. He obtained his doctorate from the David Geffen School of Medicine at UCLA and conducted his medical internship at Cedars-Sinai Medical Center. Dr. Khan's residency and fellowship in vitreoretinal surgery were at Wills Eye Hospital in Philadelphia, Pennsylvania.



Dr. M. Ali Khan

Dr. Khan specializes in the medical and surgical treatment of vitreoretinal disease, and his research interests include proliferative vitreoretinopathy, diabetic retinopathy, and retinal imaging modalities.

Reinforcing the Retina Service at Doheny Eye Center UCLA, Dr. Khan will be seeing patients at Doheny Eye Center UCLA-Arcadia and Doheny Eye Center UCLA-Pasadena.

UCLA Department of Ophthalmology Awards and Honors

- ▶ **Sophie X. Deng, MD, PhD**, associate professor of ophthalmology, received the IEEE Transactions on THz Science and Technology Best Paper Award for a significant contribution to the field of endeavor in May 2016.
- ▶ **Alex A. Huang, MD, PhD**, assistant professor, was presented with the Heidelberg Engineering Xtreme Research award at the May 2016 Association for Research in Vision and Ophthalmology meeting in Seattle, Washington.
- ▶ **Sherwin J. Isenberg, MD**, Laraine and David Gerber Chair in Ophthalmology, received the Marshall M. Parks, MD, Bronze Medal for Distinguished Service from the Children's Eye Foundation of the American Association for Pediatric Ophthalmology and Strabismus on April 7, 2016, in Vancouver, BC, Canada.
- ▶ **John A. Irvine, MD**, health sciences clinical professor of ophthalmology, presented the 14th Thomas H. Pettit Lecture at the UCLA Stein Eye Institute Clinical and Research Seminar on June 10, 2016, in Los Angeles, California.
At the same event, Dr. Irvine was awarded the S. Rodman Irvine Prize for his demonstrated excellence in professional actions and exemplary dedication to teaching future generations of ophthalmologists.
- ▶ **SriniVas R. Sadda, MD**, professor, presented the 47th Jules Stein Lecture at the UCLA Stein Eye Institute Clinical and Research Seminar on June 10, 2016, in Los Angeles, California.
- ▶ **Alfredo A. Sadun, MD, PhD**, Flora Thornton Chair of Vision Research, presented the 14th Bradley R. Straatsma Lecture at the UCLA Stein Eye Institute Clinical and Research Seminar on June 10, 2016, in Los Angeles, California. In addition, he gave the Knapp Symposium keynote lecture for the American Ophthalmological Society on May 20, 2016, in Colorado Springs, Colorado, and the keynote lecture at the Canadian Ophthalmological Society meeting on June 20, 2016, in Ottawa, Canada.
Dr. Sadun was also the recipient of the Purpura Award for Contributions to Science and Medicine given by the Albert Einstein College of Medicine on May 25, 2016, at Lincoln Center, New York, New York.
- ▶ **Federico G. Velez, MD**, health sciences clinical professor of ophthalmology, was presented with an Honor Award for distinguished service by the American Association for Pediatric Ophthalmology and Strabismus on April 6, 2016, in Vancouver, BC, Canada.

Stein Eye Faculty Member Brings Home the Gold



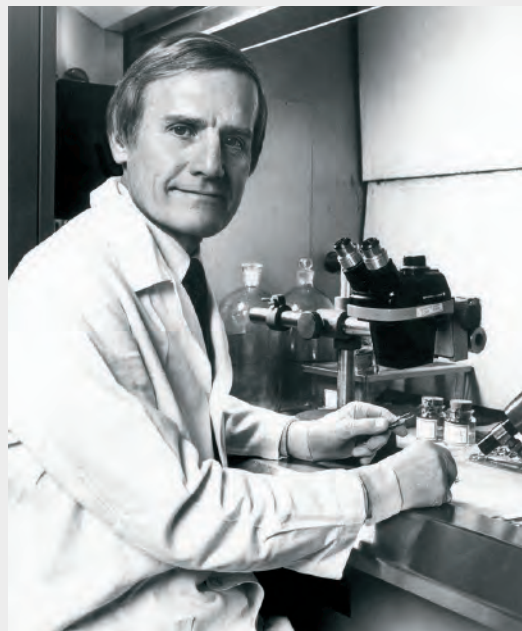
At the May 10, 2016, Cataract Surgery Olympics, **Dr. Kevin Miller** and his North American team won the gold! Cataract specialists from around the world gathered in New Orleans, Louisiana, and shared video case presentations. The competition, held during the American Society of Cataract and Refractive Surgery symposium, included the Cataract Pentathlon, where up to five devices could be used; the Cataract Marathon, which tested endurance; the IOL Gymnastics, which showed skill and creative maneuvers; and Freestyle Surgery, where “anything goes.”

In Remembrance

We remember those who have given so much of their time and their life's work to benefit the Stein Eye Institute

Richard Wain Young, PhD

December 15, 1929–May 18, 2016



Richard Wain Young, PhD, a respected expert in the field of retinal cell biology died at home in his sleep on May 18, 2016. He was 86.

A founding member of the Stein Eye Institute and emeritus professor of neurobiology, Dr. Young joined the Marines directly out of high school and served in the Korean War. He obtained a B.A. degree in biology from Antioch College, where he was a research assistant at the Fels Research Institute. He completed a PhD

program in human anatomy at Columbia University, followed by a National Science Foundation Postdoctoral Fellowship at the University of Bari and the Karolinska Institute. Dr. Young subsequently received training in the use of radioisotopes at the Oak Ridge Institute of Nuclear Studies and in electron microscopic autoradiography at the Centre d'Etudes Nucléaires.

Dr. Young joined the faculty of the UCLA Medical School's Department of Anatomy (now the Department of Neurobiology) in 1960 as an assistant professor, attaining the rank of professor in 1968. His primary teaching assignment was in microscopic anatomy, a course that he chaired for over 20 years. Laboratory research, funded by the U.S. Public Health Service and primarily based upon autoradiography, was applied to questions of cell biology in bones, teeth, the ocular lens, and particularly the visual cells of the retina.

Dr. Young published his seminal paper on the continual renewal of the outer segments of the rods and cones in 1967. It was this contribution—and the series of experiments and papers that followed—that opened up an entire new field of ophthalmological research and led to Dr. Young receiving the prestigious Friedenwald Award in Ophthalmology from the Association for Research in Vision and Ophthalmology in 1976.

“Richard's studies on the basic cell biology of the retina, particularly of retinal photoreceptor cells, spawned a flurry of research in the 1970s and '80s, engaging the efforts of investigators in well over 20 laboratories in the United States and around the world—cumulative advances that placed retinal cell biology at the forefront of vision research,” explains student, colleague, and friend, **Dean Bok, PhD**, Dolly Green Chair of Ophthalmology. “These advances brought growing recognition of the retinal rod cell as an ideal system for studying the biosynthesis, intracellular trafficking, and turnover of membrane precursors. They also provided a solid scientific foundation for understanding the etiology of a host of ocular pathologies, particularly those associated with aging.”

Dr. Young received several other awards recognizing his teaching and research, including multiple UCLA Golden Apple awards, a UCLA Distinguished Teaching award, the prestigious Bowman Lecture of the Royal College of Ophthalmologists, the Verhoeff Lecture of the American Ophthalmological Society, the Charles F. Prentice Medal for research from the American Academy of Optometry, and an honorary Doctor of Science from the University of Chicago.

Deeply loyal and appreciative of his more than 55-year affiliation with the UCLA Medical School, Dr. Young retired from his formal academic activities in the Department of Neurobiology and Stein Eye Institute at UCLA in 1991, transitioning to a Professor Emeritus. “Dr. Richard Young was a brilliant scientist, a dedicated teacher, and a special friend,” says **Bradley R. Straatsma, MD, JD**, founding chairman of the UCLA Department of Ophthalmology and founding director of the Stein Eye Institute. “He will remain in our thoughts.”

Dr. Young is survived by his wife, Dr. Joyce Hagen, four sons from his first marriage, three stepchildren, 15 grandchildren, and one great grandchild born just before his passing.

Norman E. Byer, MD

April 2, 1926–August 13, 2016



A respected member of the UCLA Department of Ophthalmology volunteer faculty for more than three decades, **Norman E. Byer, MD**, clinical professor of ophthalmology (senior status), passed away on August 13, 2016, at the age of 90.

Dr. Byer graduated Phi Beta Kappa from the University of California Medical School in San Francisco. Following ophthalmology residency training at UCLA, Dr. Byer worked for one year with Dr. S. Rodman Irvine in private practice and then trained as a Heed Fellow. In 1960, Dr. Byer opened his ophthalmology practice in Torrance, California, specializing in retinal surgery.

Dr. Byer's contributions to ophthalmology have been recognized with numerous awards, including the Heed Award from the Heed Ophthalmic Foundation, the Hermann Wacker Prize from Club Jules Gonin, and the Ernst Custodis Prize from the German Retina Society. In 1997, Dr. Byer received the S. Rodman Irvine Prize from the UCLA Department of Ophthalmology in recognition of his excellence in professional actions and exemplary dedication to teaching future generations of ophthalmologists.

He is survived by his wife of 61 years, Evelyn, his son Timothy Byer, daughter Jane Byer, and four grandchildren.



Louis Rosenberg, OD

Louis Rosenberg, OD

April 1, 1923– July 5, 2016

Born in Romania, **Louis Rosenberg, OD**, came to the United States at 6 months of age and was raised in New York City. He proudly served in the 89th Infantry Division in World War II. After discharge in 1946, he met the love of his life, Anne Goldfinger. They married and moved to Los Angeles where he studied and became an optometrist.

Dr. Rosenberg was an invaluable member of the JSEI Affiliates family. He worked as a volunteer optometrist following his retirement, graciously providing comprehensive vision screenings to preschool children throughout the Los Angeles community who might not otherwise have access to an eye examination.

The JSEI Affiliates is indebted to Dr. Rosenberg for his service to the Preschool Vision Screening program and for making a tangible difference in the lives of so many.

To support the JSEI Affiliates or to volunteer, go to: www.jseiaffiliates.com.

2016 Clinical and Research Seminar

Ophthalmologists gathered at the Stein Eye Institute on June 10, 2016, for the Institute's most prestigious annual academic event, the Clinical and Research Seminar. Sponsored by the UCLA Department of Ophthalmology Association, the Seminar provides an opportunity for discussion of emerging vision research and celebrates teaching and faculty volunteerism.



47th JULES STEIN LECTURER

Srinivas R. Sadda, MD
President and Chief Scientific Officer
Doheny Eye Institute
Stephen J. Ryan–Arnold and Mabel Beckman
Endowed Chair
Professor of Ophthalmology
David Geffen School of Medicine at UCLA
Los Angeles, CA



14th BRADLEY R. STRAATSMA LECTURER

Alfredo A. Sadun, MD, PhD
Vice Chairman, Doheny Eye Center UCLA
Flora Thornton Chair of Vision Research
David Geffen School of Medicine at UCLA
Los Angeles, CA



14th THOMAS H. PETTIT LECTURER

John Irvine, MD
Medical Director, Doheny Eye Center UCLA
Health Sciences Clinical Professor
David Geffen School of Medicine at UCLA
Los Angeles, CA

In acknowledgment of their service, selected volunteer and clinical faculty received awards of distinction at the Clinical and Research Seminar. The S. Rodman Irvine Prize recognizing excellence in the UCLA Department of Ophthalmology faculty was given to **John A. Irvine, MD**. Senior Honor Awards were presented to **Andrew M. Chang, MD**, and **Troy R. Elander, MD**, distinguished volunteer faculty who have been members of the UCLA Department of Ophthalmology for at least 25 years. The Faculty Teaching Award, honoring contributions to residency education, was presented to **Michael A. Kapamajian, MD**.

Resident and Fellow Graduation and Award Ceremony

The Stein Eye Institute/Doheny Eye Institute resident and fellow graduation and award ceremony was Friday, June 10, 2016, at the UCLA Faculty Center. Overseeing the ceremony and providing farewell commentary were Residency Program Director **Anthony C. Arnold, MD**, and Assistant Director **Stacy L. Pineles, MD**. The evening included presentation of diplomas to graduating residents and fellows, and awards—underwritten by the UCLA Stein Eye Institute Alumni Association—were presented for excellence in research.

- ▶ The Robert E. Christensen, MD, Research Award was presented to **Julia Nemiroff, MD**. The competitive grant will help underwrite Dr. Nemiroff's research topic, *Vessel Density of the Superficial and Deep Retinal Plexus in Normal Subjects*. Presented for the nineteenth year in a row, the grant is made possible by funding from annual UCLA Stein Eye Institute Alumni Association dues, generously paid by Stein Eye alumni and faculty.
- ▶ The Resident Research Award was given to **Xuejing Chen, MD**, for her paper, *Type 1 versus type 3 neovascularization in pigment epithelial detachments associated with age-related macular degeneration after anti-VEGF therapy: a prospective study*.
- ▶ The Clinical Fellow Research Award was presented to **Aaron Nagiel, MD, PhD**, for his paper, *Vitreotomy-Assisted Biopsy for Molecular Prognostication of Choroidal Melanoma 2 mm or Less in Thickness with a 27 Gauge Cutter*.
- ▶ The International Fellow Research Award was presented to **Soh-Youn Suh, MD**, for her paper, *Pulley Positions in Superior Oblique Palsy*.
- ▶ The Postdoctoral Fellow Research Award was given to **Andrew Shin, PhD**, for his paper, *Finite Element Biomechanics of Optic Nerve Sheath Traction in Adduction*.
- ▶ The Predoctoral Fellow Research Award was presented to **Tamara Lenis, MD**, for her paper, *Safety of Concurrent Boston Type I Keratoprosthesis and Glaucoma Drainage Device Implantation*.
- ▶ The ARVO Young Investigator Travel Award was presented to **Victoria Tseng, MD, PhD**, for her abstract, *Hypotony Maculopathy after Trabeculectomy*.



(L to R) Drs. Kevin Miller, Bradley Straatsma, Srinivas Sadda, and Alfredo Sadun at the reception following the 2016 Stein Eye Institute and Doheny Eye Institute graduation ceremony.



The 2016 class of graduating fellows

Destinations of 2016 Graduating Residents and Fellows

Congratulations to our outgoing residents and fellows who are moving on to the next step of their training and career.

Graduating Fellows

SEI Cornea and Refractive Surgery Fellows

Carolina Aravena Perez, MD
Associate Instructor of Ophthalmology
Department of Ophthalmology
Pontifical Catholic University of Chile
Santiago, Chile

Tahir Bozkurt, MD
Cornea and Cataract Surgery Consultant
Ümraniye Training and Education Hospital
Istanbul, Turkey

Pichaya Chuephanich, MD
Cornea Specialist
Ramathibodi Hospital, Mahidol University
Bangkok, Thailand

Andrew Salem, MD
Private Practice
Diagnostic Eye Center
Houston, Texas

Anushree Sharma, MD
Private Practice
Texas

Chantaka Supiyaphun, MD
Corneal Specialist
Bangkok Metropolitan University Hospital
Bangkok, Thailand

DEI Cornea and Refractive Surgery Fellow

Laura Vickers, MD
Glaucoma Fellowship
UCLA Stein Eye Institute
Los Angeles, California

SEI Uveitis Fellow

Meghan Berkenstock, MD
Assistant Professor of Ophthalmology
Wilmer Eye Institute
Baltimore, Maryland

SEI Glaucoma Fellows

Salwa Abdel-Aziz, MD
Academic Glaucoma Specialist

Daniel Choi, MD
Assistant Professor of Ophthalmology
Stanford University
Palo Alto, California
Private Practice
Central Valley Eye
Stockton, California

Pradtana Hirunpatravong, MD
Glaucoma Specialist
Bangkok Metropolitan Hospital
Bangkok, Thailand

Pablo Romero, MD
Assistant Professor
University of Chile
Santiago, Chile

DEI Glaucoma Fellow

Lilit Minasyan, MD
Private Practice, Glaucoma Specialist
Lugene Eye Institute
Glendale, CA

SEI/DEI Neuro-Ophthalmology Fellow

Supanut Apinyawasisuk, MD
Neuro-Ophthalmology Specialist
Department of Ophthalmology
Chulalongkorn University
Bangkok, Thailand

SEI Orbital and Ophthalmic Plastic Surgery Fellow

Erin Lessner, MD
Private Practice
Washington DC

DEI Orbital and Ophthalmic Plastic Surgery Fellow

Hans Dieter Hertzog, MD
Private Practice
Hertzog Eye Care
Long Beach, California

SEI Pediatric Ophthalmology Fellows

Melinda Chang, MD
Neuro-Ophthalmology Fellowship
UCLA Stein Eye Institute/
Doheny Eye Institute
Los Angeles, CA

Tina Damarjian, MD
Faculty
Medical College of Wisconsin
Milwaukee, Wisconsin

Hiba Khraisat, MD
Pediatric Ophthalmologist
Queen Rania Al-Abdullah Children's Hospital
Amman, Jordan

Ghada Rajab, MD, PhD, FRCS(Glasgow), FICO(London)
Ophthalmology Lecturer
Menoufia University Hospital,
Egypt

Fatma Yulek, MD
Associate Clinical Professor
Ankara Yildirim Beyazit University School of Medicine
Ankara, Turkey

SEI Retina Fellows

Michael Klufas, MD
Attending Surgeon
Wills Eye Hospital Retina Service / Mid Atlantic Retina
Assistant Professor of Ophthalmology
Thomas Jefferson University
Philadelphia, Pennsylvania

Elizabeth Richter, MD, PhD
Private Practice
Retina Associates of Sarasota
Sarasota, Florida

SEI/DEI Retinal Disorders and Ophthalmic Genetics Fellows

Nopasak Phasukkijwatana, PhD, MD
Clinical Instructor
Vitreoretinal Division
Siriraj Hospital
Bangkok, Thailand

Sohrab Tofigh, MD
Retinal Specialist
Kaiser Permanente
San Diego, California



Dr. Robert Goldberg with Dr. Julia Nemiroff, recipient of the Robert E. Christensen, MD, Research Award.

Graduating Residents

Jenny Chen, MD
Chief Resident
Washington University
St. Louis, Missouri

Xuejing Chen, MD
Vitreoretinal Surgery Fellowship
New England Eye Center & Ophthalmic Consultants of Boston
Boston, Massachusetts

Diana Katsman, MD, PhD
Vitreoretinal Surgery Fellowship
Loma Linda University Medical Center
Loma Linda, California

Wonchon Lin, MD
Cornea Fellowship
Duke Eye Center
Duke University Health System
Durham, North Carolina

Grant Moore, MD
Ophthalmic Plastic and Reconstructive Surgery Fellowship
University of Utah
Salt Lake City, Utah

Mitra Nejad, MD
Staff Ophthalmologist
UCLA Stein Eye Institute
Los Angeles, California

Julia Nemiroff, MD
Medical Retina Fellowship
USC Roski Eye Institute
Los Angeles, California

Christian Sanfilippo, MD
Vitreoretinal Surgery Fellowship
UCLA Stein Eye Institute
Los Angeles, California

Mauricio Vargas, MD, PhD
Medical Retina Fellowship
Massachusetts Eye and Ear Infirmary
Boston, Massachusetts

Incoming Ophthalmology Fellows

We are pleased to introduce the following ophthalmologists entering clinical and international fellowships at the Stein Eye Institute (SEI) and the Doheny Eye Center UCLA (DEC) in the 2016–2017 academic year:

Ophthalmology Clinical Fellows 2016–2017

Saba Al-Hashimi, MD
SEI Cornea

Bora Chae, MD
SEI/DEC Medical Retina

Melinda Chang, MD
SEI/DEC Neuro-Ophthalmology

An Huynh, MD
SEI/DEC Medical Retina

Robert Lalane, MD
SEI Retina

Wenjing Liu, MD
SEI Oculoplastics

Brett McKnight, MD
DEC Glaucoma

Aaron Nagiel, MD, PhD
SEI Retina

Sathyadeepak Ramesh, MD
SEI/DEC Oculoplastics

Christian Sanfilippo, MD
SEI Retina

Nathaniel Sears, MD
SEI Glaucoma

Sanket Shah, MD
SEI Retina

David Truong, MD
SEI Cornea

Laura Vickers, MD
SEI Glaucoma

Victoria Yom, MD
DEC Cornea

Rui Zhang, MD
SEI Pediatric Ophthalmology

Ophthalmology International Fellows 2016–2017

Handan Akil, MD
Retina
Turkey

Reza Alizadeh, MD
SEI Glaucoma
Iran

Mayss Al-Sheikh, MD
DEI Retina
Germany

Diana Cifuentes Zapta, MD
SEI Pediatric Ophthalmology
Colombia

Ramin Daneshvar, MD
SEI Glaucoma
Iran

Juan Pablo Davila Gonzalez, MD
SEI Medical Retina
Mexico

Patricio Dodds, MD
SEI Cornea
Argentina

Nima Fatehi, MD
SEI Glaucoma
Iran

Khalil Ghasemi Falavarjani, MD
DEI Retina
Iran

Andrea Govetto, MD
SEI Retina
Italy

Adit Gupta, MD
SEI Oculoplastics
India

Amirhossein Hariri, MD
DEI Retina
Iran

Yunxia Leng, MD
SEI Vision Science
China

Marcela Lonngi, MD
SEI Pediatric Ophthalmology
Colombia

Lilian Mohammed, MD
SEI Glaucoma
Egypt

Nucharee Parivisutt, MD
SEI Glaucoma
Thailand

Nopasak Phasukkijwatana, MD, PhD
SEI Medical Retina
Thailand

Eva Platner, MD
SEI Retina
Israel

Pitchaya Prapaipanich, MD
SEI Cornea
Thailand

Mansour Rahimi, MD
SEI Medical Retina
Iran

Ghada Rajab, MD
SEI Pediatric Ophthalmology
Egypt

Pornlada Sunlakaviset, MD
SEI Cornea
Thailand

Ningling Wu, MD, PhD
SEI Cornea
China

Xiaorong Xin, MD
SEI Glaucoma
China

Rika Yamada, MD
SEI Retina
Japan

Residency Match

In January of last year, Residency Selection Chairman, **Robert Alan Goldberg, MD**, was informed of the results of the ophthalmology residency “match” for 2016. The following applicants, selected over a year ago, began serving as Stein Eye Institute House Officers July 1, 2016:

Christine Bokman, MD
University of Miami Miller School of Medicine

Ben Campbell, MD
Baylor College of Medicine

Elisha Garg, MD
UCLA David Geffen School of Medicine

Kirk Hou, MD
Washington University in St. Louis

Patrick Lee, MD
UCLA David Geffen School of Medicine

Xiongfei Liu, MD
University of Miami Miller School of Medicine

Eric Shieh, MD
Harvard Medical School

Victoria Tseng, MD
Brown University

Stein and Doheny Joint Reception in Seattle

The UCLA Stein Eye Institute and Doheny Eye Institute held a festive joint reception for UCLA Department of Ophthalmology faculty, as well as resident and fellow alumni from around the world at the Association for Research in Vision and Ophthalmology (ARVO) annual meeting in Seattle, Washington.

UCLA Department of Ophthalmology eye and vision researchers were active participants at the May 1–5, 2016, ARVO meeting, joining colleagues from more than 75 countries to create effective collaborations and explore the challenges faced in bridging gaps in scientific knowledge.



Drs. Srinivas Satta (L), Bartly Mondino (center, left) and Dr. Alfredo Sadun (right) welcome new UCLA Department of Ophthalmology faculty member Dr. M. Ali Khan (center, right).



(L to R) Drs. Stephen Tsang, Joseph Demer, and Bartly Mondino congratulate Dr. Vinit Mahajan (R) on receiving the Alumni Achievement Award.



(L to R) Dr. Steven Nusinowitz, co-director of the Stein Eye Institute's Visual Physiology Laboratory and colleagues Dr. Joseph Caprioli, chief of the Institute's Glaucoma Division, and Dr. Kouros Nouri-Mahdavi (R), director of the Institute's Glaucoma Imaging Research Laboratory.



Dr. Gary Holland (L), Director of the Ocular Inflammatory Disease Center and Director of the UCLA Department of Ophthalmology Clinical Research Center, discusses research interests with Dr. Srinivas Satta, president and chief scientific officer of the Doheny Eye Institute.



Dr. Michael Reich joins 2006 Bradley R. Straatsma Lecturer, Dr. Uwe Pleyer.

Stein Eye Alumnus Honored at ARVO

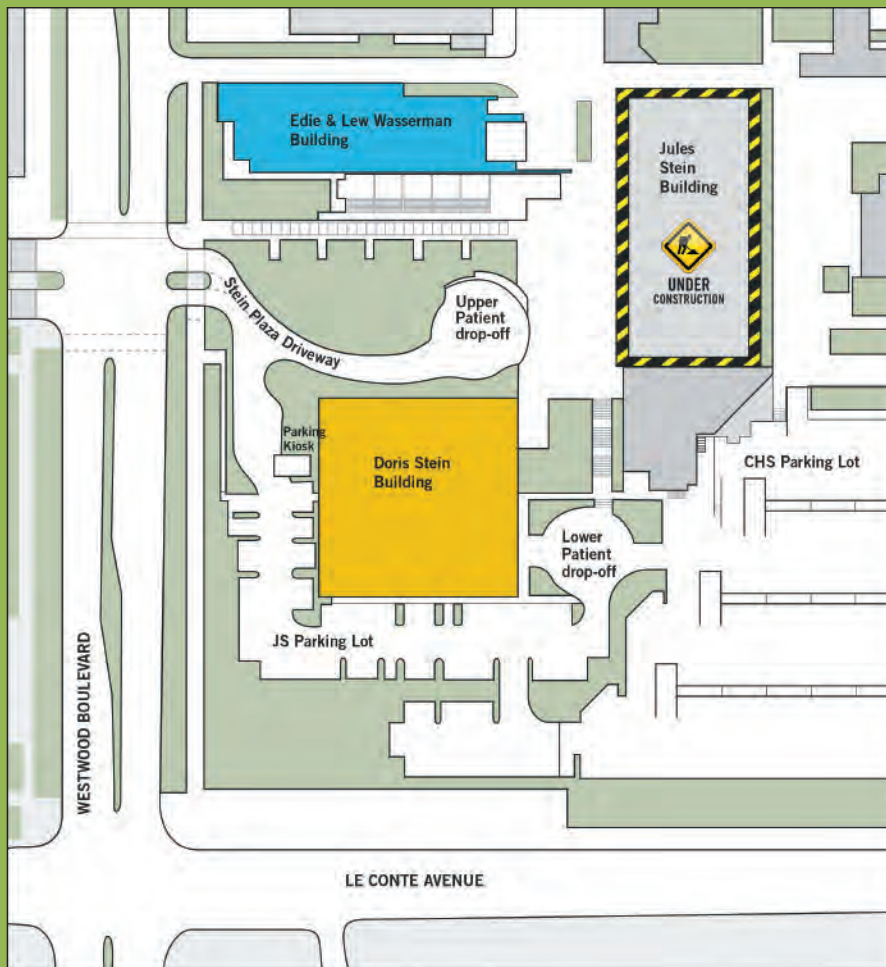
Stein Eye Institute alumnus and EyeSTAR training program graduate, Vinit Mahajan, MD, PhD, clinical assistant professor of ophthalmology and visual sciences at the University of Iowa, received the 2016 Alumni Achievement Award from Fight for Sight. The organization invests in the future of eye and vision research by funding promising scientists early in their careers. In addition to being a vitreoretinal surgeon, Dr. Mahajan directs the Proteomics Lab at the University of Iowa.

The award was presented to Dr. Mahajan at the May 1–5, 2016, Association for Research in Vision and Ophthalmology (ARVO) annual meeting in Seattle, Washington.



Dr. Vinit Mahajan

Jules Stein Building Under Construction



With the current renovation and temporary closure of the Jules Stein Building, patient-care services are being conducted in the Doris Stein Building and the Edie & Lew Wasserman Building.

Build a Legacy and Ensure Advances in Vision Science

The Stein Eye Institute is dedicated to advancing innovative and groundbreaking research, delivering cutting-edge patient care, key community engagement, and providing the education necessary to diagnose and treat eye disease.

Charitable gifts made through your estate are a wonderful way to provide lasting support for Stein Eye.

If you are interested in learning more about ways to include the Stein Eye Institute in your will or living trust, or if you have already included Stein Eye in your estate plans, please let us know so we can ensure your wishes are clearly understood.

We would love to hear from you!

And best of all, you know that you are helping to ensure that the Stein Eye Institute can uphold its mission to preserve sight and restore vision for generations to come.

For more information on estate gifts, bequests, charitable gift annuities, and other philanthropic strategies, please visit UCLA's Planned Giving website at: www.legacy.ucla.edu, or contact Stein Eye's Development team at:

Stein Eye Institute, UCLA
100 Stein Plaza, Room 1-124
Los Angeles, CA 90095-7000
Telephone: (310) 206-6035
Email: giving@jsei.ucla.edu

All inquiries are confidential and without obligation.

UCLA

Stein Eye Institute

405 Hilgard Avenue
 Box 957000, 100 Stein Plaza
 Los Angeles, California, 90095-7000
 U.S.A.

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Director
 Bartly J. Mondino, MD

Editors
 Anthony C. Arnold, MD
 Debora B. Farber, PhD, DPhhc

Managing Editor
 Tina-Marie Gauthier

Contributing Editors
 Teresa Closson
 Debbie Sato
 M. Gail Summers

Contributing Writer
 Harlan Lebo

Contributing Photographer
 Reed Hutchinson

Design
 Robin Weisz Design

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Contact Information

Stein Eye Institute, Westwood

100 Stein Plaza, UCLA
 Los Angeles, CA 90095
 Referral Service: (310) 794-9770
 Emergency Service: (310) 825-3090
 After-Hours Emergency Service: (310) 825-2111
 Website: www.jsei.org

Stein Eye Center—Santa Monica

1807 Wilshire Blvd., Suite 203
 Santa Monica, CA 90403
 Telephone: (310) 829-0160

Doheny Eye Center UCLA—Arcadia

622 W. Duarte Rd., Suite 101
 Arcadia, CA 91007
 Telephone: (626) 254-9010

Doheny Eye Center UCLA—Orange County

Orange Coast Memorial Medical Center
 18111 Brookhurst St., Suite 6400
 Fountain Valley, CA 92708
 Telephone: (714) 963-1444

Doheny Eye Center UCLA—Pasadena

Huntington Pavilion
 624 S. Fair Oaks Blvd., 2nd Floor
 Pasadena, CA 91105
 Telephone: (626) 817-4747

Alumni Relations

Facebook: www.facebook.com/JSEIAlumni
 Email: alumni@jsei.ucla.edu

Philanthropy

Stein Eye Development Office
 100 Stein Plaza, UCLA, Room 1-124
 Los Angeles, CA 90095-7000
 Telephone: (310) 206-6035
 Email: giving@jsei.ucla.edu

Volunteer Opportunities

Stein Eye Affiliates
 Telephone: (310) 825-4148
 Website: www.jseiassociates.com
 Facebook: www.facebook.com/JSEIAffiliates
 Email: affiliates@jsei.ucla.edu

Read past issues of *EYE* newsletter at:

http://www.jsei.org/About/about_news_eye.htm

Send comments or questions to:

Tina-Marie Gauthier
 Managing Editor
 Email: gauthier@jsei.ucla.edu



U.S. News & World Reports ranks
 Stein and Doheny Eye Institutes
 No. 5 in the country and the Best in the West.