



VISIONS

Koret Vision Institute + Beckman Vision Center + Department of Ophthalmology + Francis I. Proctor Foundation Spring 2017 + Annual Report University of California, San Francisco + That Man May See

Focal Point



Dear Friends,

The Department of Ophthalmology and the Francis I. Proctor Foundation appreciate your partnership to fulfill our shared mission of sight for all. Our vision scientists continue to advance UCSF's worldwide leadership in this field, thanks to your friendship and support.

Toward better patient outcomes

We are pioneering innovative discoveries and treatments for the most complex eye diseases, serving patients of the Bay Area and far beyond.

Toward discovery and solutions

We are expanding our faculty to initiate more core laboratory science programs and pursue more cross-disciplinary research to translate scientific findings into patient benefits. Clinical trials are harnessing advanced technologies to include thousands in countries such as Ethiopia, India, and Thailand.

Toward leadership for tomorrow

Our newest residents and fellows again represent the brightest and best young physicians and research scientists on their way to becoming the ophthalmology leaders of tomorrow.

This is a most exciting time, and we thank you for your generous support.

Sincerely,

Stephen D. McLeod, MD
Theresa M. and Wayne M. Caygill, MD, Distinguished Professor and Chair



Dr. Eugene de Juan holds four of his inventions. UCSF ophthalmologists collaborate on his entrepreneurial ventures.

Teams Transform Lives Vision Breakthroughs

Renowned retina specialist and surgeon **Eugene de Juan Jr., MD**, holds more than 100 patents. Three of his novel surgical devices are now used worldwide, and more are on the way. His entrepreneurship is highly collaborative, bringing together teams of vision scientists, investors, bio-engineers, and device fabricators to transform the lives of patients facing sight loss.

“Dr. de Juan envisions novel ways to overcome major treatment challenges,” says glaucoma specialist **Robert Stamper, MD**. “He mobilizes enormous resources to refine his concepts and move them through the pipeline to help millions of patients.”

Continued on page 3



Dr. Stephen McLeod Editor-in-Chief for *Ophthalmology*

Department of Ophthalmology Chair **Stephen D. McLeod, MD**, has been appointed editor-in-chief of *Ophthalmology*. The journal is published by the American Academy of Ophthalmology, the world's largest association of eye physicians and surgeons. With a readership of 32,000, it is the most widely read journal in its medical specialty.

Energy, Integrity, and Commitment

“Stephen McLeod is a respected leader of one of our country's most distinguished academic departments. He will bring that same energy, integrity, and commitment to excellence to *Ophthalmology*,” says David W. Parke II, MD, CEO of the Academy. “Dr. McLeod is a tremendous clinician scientist with a deep personal commitment to the critical role of our profession's flagship journal in helping to frame and address the most important issues of our time.”

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Pioneering Retinal Scientist



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Fellows Pursue Excellence

It takes great teams to accomplish goals this big.



Fabrication equipment at Forsight Labs in Menlo Park creates prototypes and molds for innovative sight solutions.

“I feel driven to improve the lives of those threatened with sight loss.”

– Dr. Eugene de Juan Jr.

Dr. de Juan’s Goals

- | | | | | | |
|--------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|
| <p>1
More comfortable, continual, and longer-term drug delivery</p> | <p>2
Reduced chances for complications</p> | <p>3
Fewer treatment visits</p> | <p>4
Easier patient compliance</p> | <p>5
Improved functioning of diseased eyes</p> | <p>6
Less complex surgeries with shorter recoveries</p> |
|--------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|

Delivering a Better Glaucoma Solution

The Problem: People are not good at using eye drops. Forgetfulness, tremors, arthritis, and poorly timed blinks all reduce the amount of medicine that reaches the disease site. Open-angle glaucoma lacks painful symptoms that motivate patients to stick to their drug regimen.

Half of open-angle glaucoma patients discontinue their drops, leading to gradual, irreversible sight loss. In many countries, few patients can afford prescription eye drops. These dilemmas set off Dr. de Juan’s problem-solving reflexes.

The “Aha” Moment: One imagines the scientist out for a run when the “Aha” moment came. *Could a tiny, surgically implanted stent save sight?*

Making It Real: Dr. de Juan launched Transcend Medical to fund and orchestrate research, development, and testing of such a device. The result was the Cypass Micro-Stent, a patented plastic tube that improves

ocular drainage to continually reduce pressure inside the eye and prevent sight loss.

Testing and Approvals: The micro-stent was approved for patients in the European Union and in South America in 2013. For US clinical trials, the micro-stent was implanted in the eyes of more than 350 patients, and their medical progress was tracked for two years.

Acquisition and Patient Access: As the trials showed merit, Transcend Medical was purchased by Alcon, a division of Novartis International. US approval came in July of 2016. Alcon’s robust distribution network ensures that glaucoma patients around the world will access this amazingly practical surgical solution. ●

“I quickly realized that the micro-stent would save sight worldwide.”

– Dr. Robert Stamper

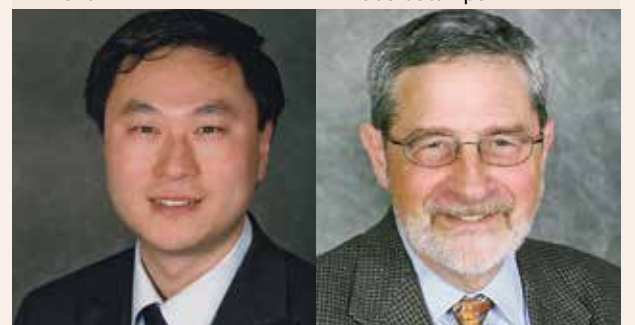
For Glaucoma

The Cypass Micro-Stent enhances drainage of excess fluid from the eye, relieving elevated intraocular pressure that leads to vision loss.

Dr. Shan Lin provided design input. Dr. Robert Stamper monitored safety during clinical trials.

Dr. Shan Lin

Dr. Robert Stamper



“Dr. de Juan is a visionary in making existing drug therapies much more practical for patients.”

– Dr. Jay Stewart



For Wet Macular Degeneration

The **Port Delivery System**, slightly larger than a rice grain, is designed to deliver Lucentis continually and painlessly for up to 3 months and then be refilled, to replace monthly eye injections and their attendant risks.

Dr. Robert Bhisitkul leads the UCSF clinical trial (one of many trial sites) and implants the device for UCSF trial participants.

Dr. Jay Stewart helped refine the device and streamlined the implantation procedure for optimal placement and outcomes.

Dr. Robert Bhisitkul

Dr. Jay Stewart



Vision Breakthroughs

Continued from page 1

It takes great teams to accomplish goals this big. The path to clinical approval is steep. In the United States, it requires at least 10 years of research, development, and rigorous testing, at a cost of \$200 million or more.

UCSF + Startup Spirit

“Our faculty taps into an incredibly creative micro-environment here in the Bay Area,” says Department of Ophthalmology Chair **Stephen D. McLeod, MD**.

Dr. de Juan, who holds the Jean Kelly Stock Distinguished Professorship in Ophthalmology, founded ForSight Labs, LLC, in Menlo Park, as an incubator for his inventions. Silicon Valley’s start-up spirit, its willingness to invest in technological innovation,

and proximity to the stellar UCSF research community benefit the specialist’s sight-saving ventures.

Dr. de Juan engages many clinical faculty on his teams, including glaucoma specialists **Dr. Stamper, Shan Lin, MD**, and **Ying Han, MD, PhD**; retina specialists **Robert Bhisitkul, MD, PhD**; **Jacque Duncan, MD**; and **Jay Stewart, MD**; and cataract, corneal disease, and refractive surgery specialists **Dr. McLeod** and **Ayman Naseri, MD**.

UCSF vision scientists play many roles, ranging from design consultation, laboratory investigation, development of surgical protocols for novel devices, clinical trial oversight, and implantation of novel devices during trials.

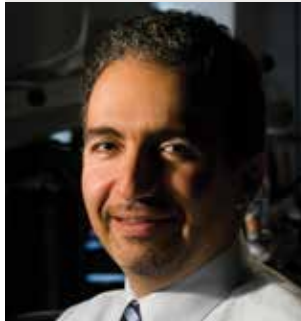
For Aging Eyes

This novel intra-ocular lens is designed to restore 20/20 vision for both near and distant sight to cataract surgical patients.

Dr. Ayman Naseri and **Dr. Stephen McLeod** consulted on device design.

Dr. Ayman Naseri

Dr. Stephen McLeod



A Foremost Innovator... “Making the World Better”

“I feel driven to improve the lives of those threatened with sight loss,” says Dr. de Juan. “It’s my way of making the world better.”

According to the Glaucoma Research Foundation, “Dr. de Juan’s leadership developing exciting new technologies has established his reputation as one of the world’s foremost innovators in vision science.” The foundation recently honored Dr. de Juan with its 2017 Catalyst Award.

Agile Teams Deliver

Dr. Jay Stewart did extensive work refining a promising drug delivery system for patients with macular degeneration. It is now in clinical trials at UCSF and several other sites. “Dr. de Juan is a visionary in making existing drug therapies much more practical for patients,” says Dr. Stewart.

“When it comes to biomedical research and development, universities and small companies tend to outperform big companies,” says Dr. de Juan. “Small teams are inherently more agile, and corporate aversion to risk can prevent the

creative leaps necessary to reinvent treatment.”

University research cultures encourage high-risk approaches because they provide new insights, even if they ultimately fail. These advantages make leading-edge university teams and dynamic startups the best bets for advancing patient solutions.

Carry the Torch Forward

Dr. de Juan holds his enterprises close to his heart, but he is not content with the success of his own innovations. He evangelizes to residents and fellows on the need for creativity, meaning, and impact in vision research. He wants the next generation to take hold of the same burning torch that he carries.

“I tell them: ‘Choose a path that is important, not just interesting. Don’t think that someone else will solve the biggest problems in our field. It is up to you, and you are up to the job.’”

With these urgent words, Dr. de Juan reflects the goals of UCSF Ophthalmology: To save and restore sight for present and future generations. ●

Some devices pictured have been greatly enlarged to show detail.



For Glaucoma and Ocular Hypertension

The **Bimataprost Ring Insert** is a comfortable plastic device which rests under the eyelids and delivers bimataprost, an approved drug that reduces intraocular pressure to prevent sight loss.

Dr. Ying Han consulted on practicality of the concept and reviewed early data.

Dr. Ying Han



For Blindness due to Retinitis Pigmentosa

The **Argus II, Prosthetic System** was the first device ever approved to restore a measure of sight to those blinded by retinitis pigmentosa.

Dr. Jacque Duncan served as principal investigator for UCSF clinical trials.

Dr. Jacque Duncan



Honoring Retina Pioneer

“**M**att LaVail’s groundbreaking work in understanding retinal degenerations and strategies that might slow disease progression continue to shape the field that he pioneered,” says ophthalmology department chair **Stephen D. McLeod, MD**.

Matt LaVail, PhD, joined the UCSF faculty in 1976. He authored more than 190 research publications and edited 17 books on inherited and environmentally induced retinal degenerations.

Pivotal Discoveries

In 1981, the Association for Research in Vision and Ophthalmology honored Dr. LaVail with the Friedenwald Award. One of the most prestigious awards in the field, it recognized his pivotal discoveries that advanced understanding of inherited retinal degenerations and potential treatment strategies. The Friedenwald Award became one among many honors.

“Matt’s discoveries paved the way for the first clinical trials of treatments that may allow patients to keep their sight longer than ever before,” says retina specialist **Jacque Duncan, MD**. “These therapies provide hope to patients.”

Leadership - Global and Local

Dr. LaVail led many efforts to accelerate progress for vision patients. As a founder of the International Symposium on Retinal Degeneration, he brought together leading and junior research scientists. His lab model of inherited retinal degenerations benefited researchers worldwide. He long served on the Scientific Advisory Committee of Foundation Fighting Blindness.

At UCSE, Dr. LaVail served as mentor and advisor for Dr. Duncan when she arrived as junior faculty. “Matt’s teaching style and creative passion inspired my own research,” she says.

Nurturing expertise for rising generations of vision research leaders may be his greatest legacy of all. ●



“**Matt’s teaching style and creative passion inspired my own research.**”
– Dr. Jacque Duncan

That Man May See Celebrates Recent Gifts

Thank you for your generous contributions and pledges for vision research, teaching, patient care, and community outreach received between June 24, 2016, and March 1, 2017.

Visionary Leaders (\$2,000,000+)

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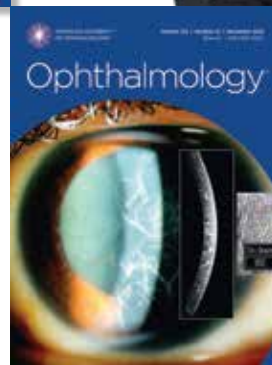
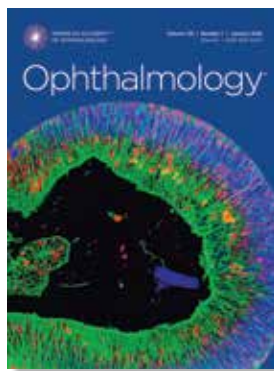
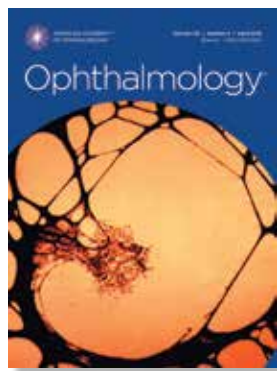
Global Village, Global Impact

“With the help of a worldwide community of investigators, reviewers, and editors, *Ophthalmology* has become the dominant forum for disseminating the very best evidence for clinical practice in ophthalmology,” says Dr. McLeod. His clinical, research, and editorial expertise will guide his stewardship of the prestigious publication.

The Academy attracts a membership of international vision science leaders. “I very much look forward to working with this community to advance research and clinical care for our patients around the globe,” adds Dr. McLeod. ●

“Stephen McLeod is a respected leader of one of our country’s most distinguished academic departments.”

– Dr. David W. Parke II
CEO, American Academy of Ophthalmology



Dr. Stephen McLeod



Campaign Honor Roll

That Man May See thanks early investors for the campaign to bring Vision Science to UCSF Mission Bay. Components include state-of-the-art facilities, expanded research, endowments, and rapid response funds.

Distinguished Anchor Contributor (\$70,000,000)

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Jim and Janet Wulfsberg

New Endowed Professorship Awarded

Michele Bloomer, MD, has been honored as first holder of a new endowed professorship – the Michael J. Hogan, MD, and Andrew Yau Chair in Ophthalmic Pathology at UCSF. Philanthropists Andrew and Cecilia Yau of Bangkok were joined in funding the chair by UCSF Ophthalmology faculty and residency program alumni.

Dr. Michael Hogan was a pioneer in eye pathology, distinguished chair of the Department of Ophthalmology, and first director of the Francis I. Proctor Foundation for Research in Ophthalmology. Gifts from UCSF Ophthalmology professors and alumni honor Dr. Hogan’s accomplishments, mentorship, and humanity.

From Bangkok with Love

“I hope this chair will be helpful to improve vision research and vision care,” says Mr. Yau. “I well understand the fear and worries of those suffering from diseases of the eye and want to provide comfort and hope.”

With gratitude for UCSF Ophthalmology, Mr. Yau funded the Thomas W. Boyden Endowed Chair in Ophthalmology in 2003. Stability bestowed by endowments allow the faculty to provide leading-edge patient care, research, community service, and education to develop future leaders.

“I am grateful to the Yaus and all those who supported creation of this professorship.”

– Dr. Michele Bloomer

Outstanding Pathologist and Mentor

“I am grateful to the Yaus and all those who supported creation of this professorship,” says Dr. Bloomer. “Pathology is my first love, and Dr. Hogan’s textbook remains a favorite.” As director of one of the world’s top eye pathology laboratories, Dr. Bloomer consults with ophthalmologists across the country to diagnose complex and unusual eye diseases.

In mentoring residents, Dr. Bloomer shares her commitment to pathology and hopes to spark excitement in younger doctors. She also teaches gratitude for high quality vision care and invites residents to join her on medical missions to Guatemala. ●

That Man May See thanks major donors Andrew and Cecilia Yau and Drs. Alex Zaffaroni, Devron Char, William Hoyt, Brooks Crawford, Buck Hoyle, Steve Turner, Jim Dowling, James Eggert, Alex Irvine, Ott Jones, Robert Naser, and Jack Whitcher.

Dr. Bloomer holds the seminal eye pathology textbook written by Dr. Michael Hogan.



Dr. Oluwatobi Idowu George and Rosalie Hearst Fellow

“Of course I researched the best oculoplastic surgeons for my advanced training,” says Dr. Oluwatobi Idowu (“Tobi” to his U.S. colleagues). He was rewarded with the prestigious, one-year George and Rosalie Hearst Fellowship.

“My West African nation of Nigeria is home to 170 million people and 10 oculoplastics specialists,” says Dr. Idowu. His public service in rural communities lacking sight-saving medical care moved him deeply.

“It is not easy to leave behind my beloved wife Adedayo and young son David, but I am determined to bring vital medical vision expertise to my country,” says the Hearst Fellow.

Up Close and Personal

Robert Kersten, MD, and **Reza Vagefi, MD**, specialists in ophthalmic plastic, reconstructive, and orbital surgery mentor this committed clinician scientist. “At UCSF I am observing many advanced procedures for the first

time,” says Dr. Idowu. “Drs. Kersten and Vagefi truly have gifted hands!”

The young Nigerian benefits from Dr. Kersten’s broad experience in developing countries and innovative surgical approaches. He credits Dr. Vagefi for outstanding mentorship and calls him “a methodical scholar.”

“Drs. Kersten and Vagefi truly have gifted hands!”

– Dr. Oluwatobi Idowu

Restoring Sight, Preventing Disfigurement

“I am drawn to oculoplastic surgery because it is very direct,” Dr. Idowu explains. “We often adjust the eyelid or bone with the fingers, and there is seldom a microscope between surgeon and patient.”

Severe upper-face trauma can result in complete sight loss and broken orbits. Permanent disfigurement is common

if the bone is not repaired. Restorative surgery can also ameliorate damage from disease.

Improving Patient Outcomes

Dr. Idowu also contributes to UCSF vision research. His team studies how to improve tissue healing to achieve more natural-looking results. He collects data to help predict the permanence of a muscle repair that restores blocked sight by lifting droopy eyelids.

Big Country, Big Vision

Next year, Dr. Idowu hopes to join the university teaching hospital in Lagos, his nation’s largest city. He plans to share his UCSF learning with students, faculty, and a new generation of ophthalmologists. He also wants to research how changes to ocular trauma and orbital tumor management in Nigeria could allow more patients to keep their eyes and sight. ●



Dear Friends of That Man May See,

It gives us great pleasure to share the 2015-2016 Annual Report of That Man May See with our friends and strategic partners. Audited financial statements are available on thatmanmaysee.org.

We celebrate the great work of UCSF Ophthalmology's faculty. The Department of Ophthalmology and the Francis I. Proctor Foundation provide inspiration for our cause and demonstrate every day the impact of your tangible contributions.

As of this writing, generous friends have helped us achieve nearly 90% of the \$150 million goal we set to advance research, translate discovery into improved patient care, train ophthalmology leaders of tomorrow, and construct a new UCSF Center for Vision Neuroscience at Mission Bay.

We celebrate – and yet we realize the challenges ahead. Fully solving the complexity of vision loss takes the brightest and the best researchers and clinicians. Your support makes competitive recruitment feasible, and the high caliber of UCSF collaborations and proximity to Silicon Valley make this an exciting place to work.

Our mission is to ensure that our faculty has resources to:

- Provide infants through seniors with expert care so they may enjoy lifetimes of vision.
- Explore new avenues of research to unravel the mysteries of saving and restoring sight.
- Combat infectious and inflammatory eye disease affecting the poorest countries.
- Inspire young medical students, residents, and fellows to change paradigms for the most challenging conditions.

We diligently manage the funds entrusted to us, keeping overhead low, and making faculty programs our highest priority.

I personally cherish this work, grateful for the UCSF physicians who improved my own vision. We thank you for being a part of our special family at That Man May See.

With gratitude,

Amy Millman
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Impact of Your Donations

FACULTY RECRUITMENT & LAB RENOVATION

Julie Schallhorn, MD, received support from Koret Foundation and Kimball Foundation. Her practice will benefit from the femtosecond laser surgical suite purchased with gifts from Don and Judy McCubbin, Joan and David Traitel, and Chuck Robel.

Thuy Doan, MD, PhD, established her research laboratory at the Proctor Foundation with support from the Huang Pacific Foundation.

Koret Foundation, Kimball Foundation, and the David and Elva Sinai Foundation support the recruitment of a new pediatric glaucoma specialist.

RESEARCH

Macular and Retinal Degenerations
The Larry L. Hillblom Foundation, Lisa and John Pritzker Family Fund, and Lynn Pasternak support multifaceted research by **Dan Schwartz, MD**, **Jay Stewart, MD**, and **Robert Bhisitkul, MD, PhD**, to advance new solutions for these diseases.

The Claire Giannini Fund established a pediatric retinal disease clinic and supports the research of **Jacque Duncan, MD**; **Bertil Damato, MD, PhD, FRCOphth**; **Tony Moore, MD**; **David Copenhagen, PhD**, **Bruce Conklin, MD**, and **Alejandra de Alba Campomanes, MD, MPH**, to improve the sight of infants, children, and future generations.

Neuro-ophthalmology

The Hellman Family Fund supports the Alzheimer's-related retinal research of **Ari Green, MD**.

Glaucoma

Ronald and Anita Wornick support the neuroscience research of **Yvonne Ou, MD**, and **Erik Ullian, PhD**, to advance novel diagnostics and treatments.

The Fortisure Foundation enables worldwide glaucoma study, led by **Robert Stamper, MD**, to develop cost-effective screening protocols and medical and surgical treatments for developing countries.

William and Sonia Davidow support **Shan Lin, MD's** studies of angle-closure glaucoma, which have led to substantial improvements in the diagnosis and treatment of this blinding disorder.

Cornea

Alastair and Celine Mactaggart, Gloria and Saul Feldman, and Jim and Joan Kirsner support **David Hwang, MD, FACS**, in his development, dissemination, and teaching of new methods for corneal disease and cataract therapy, including novel surgical procedures.

Infectious and Inflammatory Eye Diseases

Peierls Foundation; Huang Pacific Foundation; Harper-Ingalls Memorial Fund for Eye Research; the Sara & Evan Williams Foundation; Sue and Laurence Spitters, Perkins Hunter Foundation; Jerome H. Debs II; Ivan, Maris, and Harry Meyerson; and Marilyn and Jack Whitcher support studies that formulate and test potential solutions to save sight and lives worldwide.

Peer-Reviewed Investigations

Seed funds allow researchers to initiate novel projects with a high potential for impact. Demonstrated results allow faculty members to seek federal funding. This year's projects include:

- **Alejandra de Alba Campomanes, MD, MPH** *Advanced Measurement Techniques to Improve Pediatric Cataract Surgery*. Dr. de Alba investigates the use of advanced intraoperative measurement techniques, aiming to significantly improve vision for pediatric cataract patients treated with intraocular lenses.
- **Thuy Doan, MD, PhD** *The Impact of Antibiotics on the Biomes of Patients*. Dr. Doan's team uses next-generation genetic sequencing to characterize and compare bacteria and viruses on the ocular surfaces of patients who use antibiotics ongoingly and those who do not. The study may lead to improved diagnostics and targeted treatments for eye infections.
- **Douglas Gould, PhD** *Genetic Causes for Anterior Segment Dysgenesis*. Dr. Gould's team examines genetic causes of developmental defects of the front of the eye, with a focus on new mutations identified in his lab. Such defects cause sight loss and disfigurement. The team analyzes cell populations that contribute to this type of defective development.
- **Jennifer Rose-Nussbaumer, MD** *Collagen Cross-Linking to Prevent Blindness*. Infectious keratitis can lead to corneal opacity, the fourth leading cause of blindness. Dr. Rose-

Nussbaumer investigates whether collagen cross-linking, a surgical procedure to strengthen the cornea, can benefit patients with this disorder.

- **Jay Stewart, MD**, and **Ricardo Lamy, MD, PhD** *Intravitreal Injection of a Novel Polymer to Increase Retinal Blood Flow*. Restricted blood flow to the retina causes diabetic retinopathy, a leading cause of irreversible vision loss. The team studies a novel polymer capable of sustained carbon dioxide release. In collaboration with Robert Grubbs, PhD (Caltech), they examine the polymer's potential to reduce the incidence of diabetic retinopathy.

EDUCATION

Thomas R. Mazzocco, MD, members of the Frederick C. Cordes Eye Society and the H. Bruce Ostler Fellows support medical student, resident, and fellow education.

DONOR-DEVELOPED INITIATIVES

The Augie Fund, which provides glasses and specialized lenses for vulnerable children, is supported by Gerson and Barbara Bakar, Bruce U. Wintroub, MD, and Marya Wintroub.

Alcatraz Swim for Sight

Major corporate sponsors for the 2016 fundraising event include DocuSign, Spark Therapeutics, FINIS, and Hiscox.

Donors listed have provided major gifts to anchor this work. Gifts at every level support these achievements.

In Gratitude for Generous Gifts

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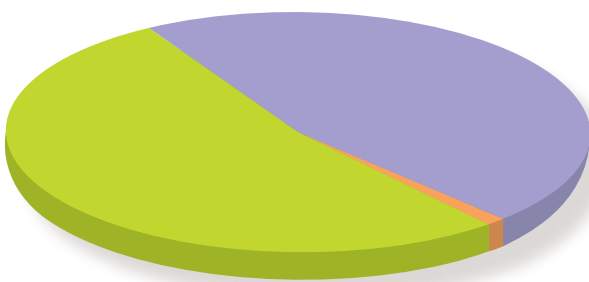
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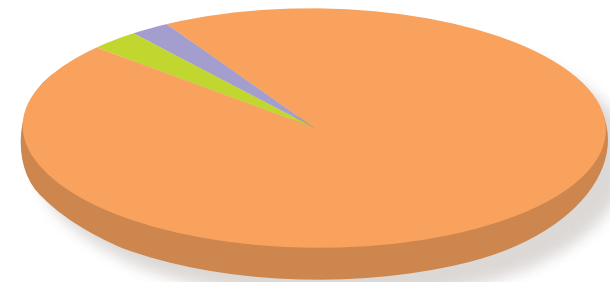
Fundraising Review: That Man May See Generated Funds



Sources of Funds	Direct to TMMS	Via Other UCSF Entities*	Total	%
Donations from Individuals, including bequests and trusts	\$3,497,531	\$3,992,839	\$7,490,370	53%
Donations from Corporations and Foundations	\$655,691	\$5,887,530	\$6,543,221	46%
Earnings on Deposited Funds**	\$64,139		\$64,139	1%
Total Revenue	\$4,217,361	\$9,880,369	\$14,097,730	100%

* Board of Regents, UCSF Foundation and Contracts & Grants

** Includes fee reimbursements from UCSF



Application of Funds	Actual	%
Research, Education, Patient Care and Community Services	\$13,326,150	95%
Fundraising	\$449,146	3%
Management and Administration	\$322,434	2%
Total Expenses	\$14,097,730	100%

Welcome New Faculty

Dr. Julie Schallhorn

MD: University of Southern California

Master's degree: UCSD, Bioengineering

Residency: UCSF Ophthalmology

Fellowships: UCSF Francis I. Proctor Foundation for Research in Ophthalmology (Uveitis); Oregon Health Sciences University, Casey Eye Institute (Cornea, External Disease, Refractive Surgery)

Julie Schallhorn, MD, MS, a specialist in cornea, external disease, and refractive surgery, graduated from UCSF Ophthalmology's residency program. After an assistant professorship at the University of Southern California, she is excited to return to UCSF with a joint appointment to the Proctor Foundation and the Department of Ophthalmology.

Q What drew you back to UCSF Ophthalmology?

A So many faculty here are leaders in their fields. As a resident, my first surgical training with Dr. David Hwang, using an excimer laser to restore 20/20 vision, was amazing. I don't think any other eye institution is as committed to the full academic mission – combining patient care with rigorous academic research and resident education.

Q After planning for a career in bioengineering, you changed course.

A My bioengineering studies showed me that life in the laboratory could be isolating. My ophthalmology practice provides more human connection.

Q Your father is a pioneering refractive surgeon. How did he influence you?

A I grew up learning about refractive surgery as it was developed. When I was rethinking my career, I shadowed my father and his colleagues to explore ophthalmology for myself. I have the satisfaction of building relationships with patients and still pursuing other aspects of vision science.

Q The department's newest laser suite (seen in photo) seems very special for you. Why?

A Having access to the best instruments and equipment is every surgeon's dream. Our laser suite features the most

advanced equipment available, allowing us to provide leading-edge treatments that restore and improve vision.

Q Tell us about your life beyond medicine.

A Child-rearing and ophthalmology have co-existed for quite a while. My daughter Penelope was born during my UCSF residency, and now she has a brother named Walter. We live near Golden Gate Park, and we're often at the Koret Children's Quarter. My husband Matt and I love to cycle with both kids aboard our bikes. ●



Dr. Catherine Oldenburg

PhD: Harvard University School of Public Health

Master's Degree: Boston University, Public Health

Epidemiologist Catherine Oldenburg, PhD, MPH, is excited to join the Proctor Foundation's faculty team.

Q Epidemiology has the power to help many, many people at one time. How can this discipline stop the spread of infectious blinding diseases?

A The quality of work coming out of the Proctor Foundation is top notch, and embrace of epidemiology is part of the reason. My discipline provides data-based insights and projections that improve our capacity to intervene effectively and halt blindness. I evaluate Proctor's public health, antibiotic treatment, and drug interventions, and I'm particularly

interested in reducing any selection bias that could skew results.

Q You previously worked at Proctor as a project coordinator, which is very people-focused. Is epidemiology mostly a solo act?

A Definitely not. I consult with faculty members on research design and statistical models. Drs. Lietman, Porco, and I work to develop better algorithms to gain more insight from even more data. That said, I enjoy diving

deep into the data alone and discovering new ways to improve our work.

Q The Proctor Foundation works to halt devastating eye diseases globally. How did this become your mission?

A As a project coordinator, I traveled to Ethiopia for our trachoma study and to India, where I witnessed the burden of blindness due to corneal opacity. The disparity between health and hygiene services here and in these nations is staggering. First-hand experiences cemented my dedication.

Q How did Proctor's faculty prepare you to succeed in Harvard's doctoral program?

A I was so fortunate to become a project coordinator at Proctor in 2009! Dr. Lietman gave me learning opportunities that most people at my level don't get to tackle. That helped me sail through my doctorate in four years. I love that the Proctor team is open to novel perspectives – you can propose something that seems crazy, and people will listen. ●

Dr. Neeti Parikh

MD: Albany Medical College, NY
Residency: Henry Ford Hospital, Detroit
Fellowship: Cornea, New York Eye and Ear Infirmary



Neeti Parikh, MD, joins the Department of Ophthalmology as a comprehensive ophthalmologist after serving on the clinical faculty at the Albert Einstein School of Medicine in New York.

Q During high school you were a “candy striper” in an emergency room. What motivated you?

A Both of my parents value community service. I am the daughter of an internist who practiced at the Veterans Administration, and I was always excited about medicine. I love the precision of surgery and the shared goal of everyone in the operating room, pulling together on behalf of the patient.

Q How did you find your way to UCSF?

A I wasn’t looking for a new job, but the opportunity was too good to ignore. I began my career in private practice, but during my appointment at Albert Einstein School of Medicine I realized how much I love the academic mission.

Q Expediting cataract procedures at Zuckerberg General is one of your major roles. What’s driving this?

A When low-income patients first visit an optometrist, sight is often already impaired. UCSF and Zuckerberg General are working to restore sight to these cataract patients as quickly as possible. I help residents clear these patients for surgery, and in the operating room I ensure the best possible quality for each patient.

Q You are a travel nut, with trips to Iceland, Nepal, Italy, and South Africa already under your belt. What’s next?

A I’m always hungry to explore more of the world, and I’d love to return to Nepal for hiking. In Lumbini, Nepal, birthplace of

the Buddha, I combined touring with sight-restoring cataract surgeries. What Westerners think of as routine surgery is generally unavailable outside major cities in Southeast Asia.

Q As an East Coast transplant, how are you adjusting to the city’s hills and fog?

A I rent a UC-owned apartment at the UCSF Mission Bay campus, where it’s flat and relatively sunny, so it’s a perfect transition. My neighbors are students, residents, and other new faculty. Now I’m exploring the city’s neighborhoods. ●

2016 Fellows Leaders of Tomorrow

CLINICAL FELLOWS



Ingrid Chang, MD
 Glaucoma
Mentors: Drs. Lin, Stamper, Han, Ou, Padmanabhan
MD: Boston University
Residency: University of Washington
Birthplace: Houston



Joyce Meza, MD
 Ocular Oncology
Mentors: Drs. Damato and Afshar
Birthplace: Barranquilla, Colombia
MD: University of Illinois at Chicago
Residency: New York Medical College



Andrew W. Francis, MD
 Vitreoretinal Surgery
Mentors: Drs. Bhisitkul, De Juan Jr., Duncan, Schwartz, Stewart
MD: Boston University
Residency: University of Illinois at Chicago
Birthplace: Hollywood



Peter Ryg, MD
 Cornea and External Disease
Mentors: Drs. Hwang, Rose-Nussbaumer, Schallhorn, Abbott, McLeod, Gonzales
MD: Jefferson Medical College
Residency: Yale University
Birthplace: Rochester, MN



Evan Kalin-Hajdu, MD
 Oculoplastics
Mentors: Drs. Kersten, Vagefi, Seiff
MD: University of Montreal
Residency: University of Montreal
Birthplace: Montreal



Dipal Shah, MD
 Cornea and External Disease
Mentors: Drs. Hwang, Rose-Nussbaumer, Schallhorn, Abbott, McLeod, Gonzales
MD: Rutgers University
Residency: Northwell Health, Great Neck, NY
Hometown: Secaucus, NJ



Jessica Shantha, MD
 Uveitis
Mentor: Dr. Acharya
MD: Morehouse University
Residency: Emory University
Completed Fellowship: Medical Retina, Retina Consultants of Hawaii
Birthplace: Atlanta

RESEARCH FELLOWS



Genki Hayashi, PhD
 Genetics of Cerebrovascular Disease
Mentor: Dr. Gould
PhD: UC Davis
Birthplace: Kobe, Japan



Seyyedhassan Paylakhi, PhD
 Genetic Factors of Refractive Error
Mentor: Dr. Nair
PhD: Tarbiat Modares University, Tehran
Birthplace: Mashhad, Iran



Peipei Pan, PhD
 Regulation of Gene Expression
Mentor: Dr. Chan
PhD: University of Nevada, Las Vegas
Birthplace: Shandong Province, China



Weiwei Wang, PhD
 Retinal Degeneration
Mentor: Dr. Dunn
PhD: Rutgers University
Birthplace: Henan Province, China

Dr. David Hwang

Meritorious Public Service

The Glaucoma Research Foundation recently named cornea, external disease, and refractive surgery specialist **David G. Hwang, MD, FACS**, as a 2017 honoree. The clinician researcher at the UCSF Department of Ophthalmology received tribute letters and certificates from US Senator Dianne Feinstein, US Representative Nancy Pelosi, the California Legislature, State Senator Scott Wiener, State Assemblyman David Chiu, and the San Francisco Board of Supervisors.

These national, state, and community leaders commend Dr. Hwang for “meritorious public service,” “leadership in ophthalmological research,” “developing sight-saving innovations in techniques and instruments,” and “distinction and merit for

outstanding service to... the people of the City and County of San Francisco.”

National, state, and community leaders commend Dr. Hwang.

Dr. Hwang holds the Pearl T. Kimura and Samuel J. Kimura Endowed Chair in Ophthalmology and serves as Vice Chair of Surgical Services and Director of both the Cornea Service and the Refractive Surgery Service. He publishes and lectures internationally on his efforts to develop innovative surgical approaches for cataract and corneal diseases and to improve outcomes of laser vision correction surgery. He and his wife, Dr. Janet Hwang, are raising three sons. ●



Faculty News

Selected Publications

Department of Ophthalmology

Lowry EA, **de Alba Campomanes AG**. Cost-effectiveness of School-Based Eye Examinations in Preschoolers Referred for Follow-up From Visual Screening. *JAMA Ophthalmology*. 2016 Jun 1.

Ho VW, Hussain RN, Czanner G, Sen J, Heimann H, **Damato BE**. Porous Versus Nonporous Orbital Implants After Enucleation for Uveal Melanoma: A Randomized Study. *Ophthalmology Plastic Reconstructive Surgery*. 2016 Nov 17. [Epublication]

Hussain RN, Kalirai H, Groenewald C, Kacperek A, Errington RD, Coupland SE, Heimann H, **Damato BE**. Prognostic Biopsy of Choroidal Melanoma after Proton Beam Radiation Therapy. *Ophthalmology*. 2016 Oct.

Hennein L, Hou J, **Stewart JM**, Lowry EA, Jiang Z, Enanoria WT, **Han Y**. Comparison of Surgical Outcome After Ahmed Valve Implantation for Patients With and Without Fluocinolone Intravitreal Implant (Retisert). *Journal of Glaucoma*. 2016 Sep.

Adams DL, Economides JR, **Horton JC**. Cortical Representation of a Myopic Peripapillary Crescent. *Ophthalmology*. 2016 Jul.

Hirabayashi KE, Kalin-Hajdu E, Brodie FL, **Kersten RC**, Russell MS, **Vagefi MR**. Retrobulbar Injection of Amphotericin B for Orbital Mucormycosis. *Ophthalmology Plastic Reconstructive Surgery*. 2016 Oct 20.

Chao DL, Chen R, **Lin SC**. Myopia Is Inversely Associated with the Prevalence of Diabetic Retinopathy in the South Korean Population. *American Journal of Ophthalmology*. 2016 Dec.

Hull S, Malik AN, Arno G, Mackay DS, Plagnol V, Michaelides M, Mansour S, Albanese A, Brown KT, Holder GE, Webster AR, Heath PT, **Moore AT**. Expanding the Phenotype of TRNT1-Related Immunodeficiency to Include Childhood Cataract and Inner Retinal Dysfunction. *JAMA Ophthalmology*. 2016 Sep 1.

Hull S, Arno G, Ku CA, Ge Z, Waseem N, Chandra A, Webster AR, Robson AG, Michaelides M, Weleber RG, Davagnanam I, Chen R, Holder GE, Pennesi ME, **Moore AT**. Molecular and Clinical Findings in Patients With Knobloch Syndrome. *JAMA Ophthalmology*. 2016 Jul 1.

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Parfitt DA, Lane A, Ramsden CM, Carr AJ, Munro PM, Jovanovic K, Schwarz N, Kanuga N, Muthiah MN, Hull S, Gallo JM, da Cruz L, **Moore AT**, Hardcastle AJ, Coffey PJ, Cheetham ME. Identification and Correction of Mechanisms Underlying Inherited Blindness in Human iPSC-Derived Optic Cups. *Cell Stem Cell*. 2016 Jun 2.

Ou Y, Jo RE, **Ullian EM**, Wong RO, Della Santina L. Selective Vulnerability of Specific Retinal Ganglion Cell (RGC) Types and Synapses after Transient Ocular Hypertension. *Journal of Neuroscience*. 2016 Aug 31.

Coh P, Moghimi S, Chen RI, Hsu CH, Masís Solano M, **Porco T**, **Lin SC**. Lens Position Parameters as Predictors of Intraocular Pressure Reduction After Cataract Surgery in Glaucomatous Versus Nonglaucomatous Eyes. *Investigative Ophthalmology & Visual Science*. 2016 May 1.

Chi M, Kim HJ, **Vagefi R**, **Kersten RC**. Modified tarsotomy for the treatment of severe cicatricial entropion. *Eye (London)*. 2016 Jul.

Proctor Foundation

Doan T, Wilson MR, Crawford ED, Chow ED, Khan LM, Knopp KA, O'Donovan BD, Xia D, Hacker JK, **Stewart JM**, **Gonzales JA**, **Acharya NR**, **DeRisi JL**. Illuminating uveitis: metagenomic deep sequencing identifies common and rare pathogens. *Genome Medicine*, 2016-08-25.

Deiner MS, **Lietman TM**, **McLeod SD**, Chodosh J, **Porco TC**. Surveillance Tools Emerging From Search Engines and Social Media Data for Determining Eye Disease Patterns. *JAMA Ophthalmology*, 2016-09-01.

Prajna NV, Krishnan T, Rajaraman R, Patel S, Srinivasan M, Das M, Ray KJ, O'Brien KS, **Oldenburg CE**, **McLeod SD**, Zegans ME, **Porco TC**, **Acharya NR**, **Lietman TM**, **Rose-Nussbaumer J**. Effect of Oral Voriconazole on Fungal Keratitis in the Mycotic Ulcer Treatment Trial II (MUTT II): A Randomized Clinical Trial. *JAMA Ophthalmology*, 2016-10-27.

Shen E, Rathinam SR, Babu M, Kanakath A, Thundikandy R, Lee SM, Browne EN, **Porco TC**, **Acharya NR**. Outcomes of Vogt-Koyanagi-Harada Disease: A Subanalysis From a Randomized Clinical Trial of Antimetabolite Therapies. *American Journal of Ophthalmology*, 2016-06-10.

Amza A, Kadri B, Nassirou B, Cotter SY, Stoller NE, Zhou Z, Bailey RL, Mabey DC, **Porco TC**, **Keenan JD**, **Gaynor BD**, West SK, **Lietman TL**. A cluster-randomized trial to assess the efficacy of targeting trachoma treatment to children. *Clinical Infectious Diseases*. 2016.

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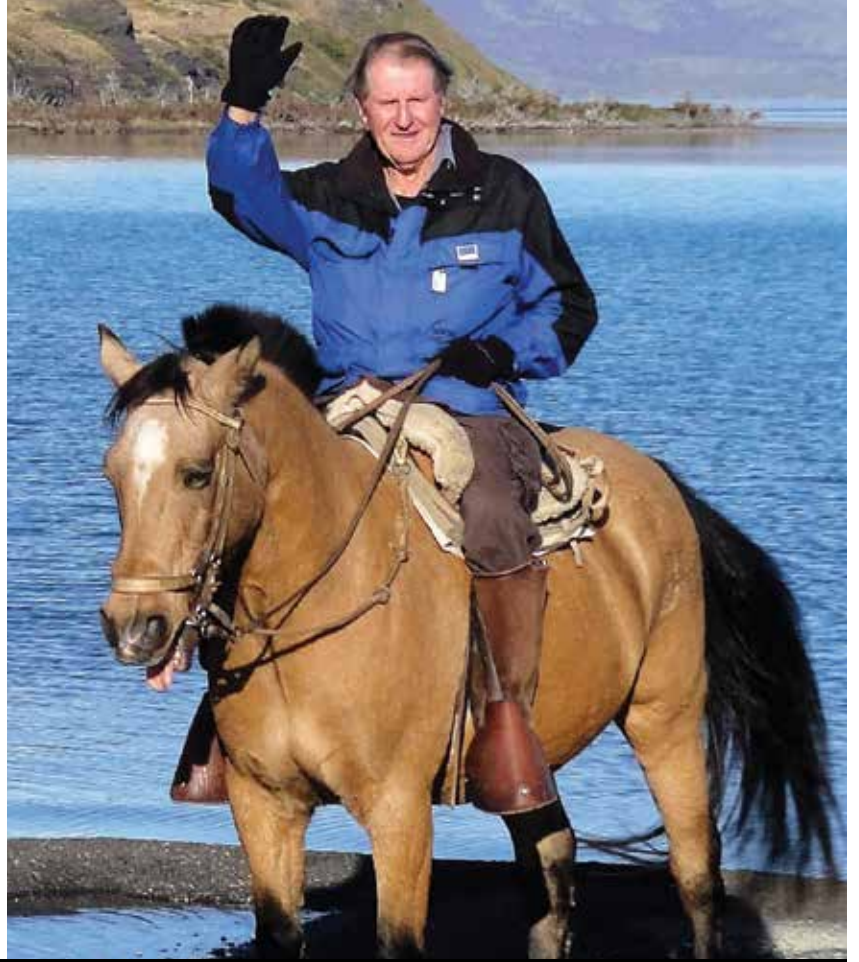
Bequest for Vision

Ronald Phillip Winiker

Ron Winiker credited **A. Syd Williams, MD**, clinical professor in the Department of Ophthalmology, with saving his sight, and Ron often expressed gratitude. “Without Dr. Williams’s care, I would have become blind,” he said. Retaining sight allowed Ron to continue his career as a commercial pilot and pursue his passion for adventure travel.

Born in Alameda, Ronald Phillip Winiker earned his pilot’s license as a young man and never stopped exploring. Patagonia, Chile, became a favorite place, and he passed away peacefully there in October 2016, two days before his 89th birthday. Santa Cruz was his home for many years.

An accomplished photographer, Ron took underwater photographs in remote regions of the world, and his photos of underwater cave formations in Mexico’s Yucatán were published in *National Geographic*. That Man May See is deeply grateful for Ron’s thoughtful bequest for vision research, providing hope that future generations will be spared from the burdens of blindness. ●



SIGHTINGS



DEPARTMENT AND PROCTOR ALUMNI

Cordes members and Bruce Ostler fellows gathered at the Chicago Art Institute for an alumni reunion.

1 *Drs. Stephen McLeod, Tom Lietman, Susan Carter, and Chuck Leiter*

2 *Dr. David Chang, Victoria Chang, Grace Kim, and Dr. Man Kim*

3 *Alumni Drs. Brendan Lujan and Manuel Puig-Llamo*

4 *Dr. Terri-Diann Pickering, Carrie Tillie, and Dr. Andrew Calman*

5 *Dr. Nisha Acharya with Cordes President Dr. Robin Vora*

ALCATRAZ SWIM FOR SIGHT

That Man May See recently hosted its 5th annual Alcatraz Swim for Sight, raising nearly \$200,000 for vision research. 100 swimmers – sighted, low vision, and blind – made the demanding two-mile crossing.

6 *Swimmer Marc Grossman, a top fundraiser, celebrates with That Man May See board members Lorie and Ron Hirson and their son, Ari.*

7 *That Man May See board member John de Benedetti has participated for four consecutive years.*

8 *The Fellner Family joins forces to raise support and swim.*

9 *Dr. Chihori Lietman feels the thrill of completing her two-mile swim.*

That Man May See is a 501(c)3 public charity. Its mission is to raise funds for the dedicated faculty of UCSF Ophthalmology to make possible breakthroughs in vision research, state-of-the-art patient care, educational opportunities for residents and fellows, and community service.

To make a gift of cash or securities, go to www.thatmanmaysee.org/donate or call 415.476.4016 or email tmms@vision.ucsf.edu. Checks are payable to That Man May See.

That Man May See
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San Francisco, CA 94143-0352
tmms@vision.ucsf.edu
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Transforming
Patients'
Lives



Dr. McLeod
Leads Flagship
Journal

Meet
New Faculty



Welcome New
Hearst Fellow



Welcome New Residents
Meet the Class of 2019

- 1 **Megan X. Law, MD**
Internship: Baylor University
MD: Baylor University
College: Cornell University, BS
- 2 **Michael C. Ryan, MD, MPH**
Internship: Memorial Sloan Kettering Cancer Center
MD: Oregon Health and Science University
Master's: Oregon State University, Medical Physics;
Oregon Health and Science University, Public Health
College: Middlebury College, BA
- 3 **Qinyun Wang, MD**
Internship: Tulane University
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College: Duke University, BA
- 4 **Davin C. Ashraf, MD**
Internship: Kaiser Permanente, San Francisco
MD: UCLA
College: UC Santa Barbara, BS
- 5 **J. Minjy Kang, MD**
Internship: West Suburban Medical Center, Oak Park, IL
MD: Northwestern University
Master's: Northwestern University, Medical Humanities and Bioethics
College: Brown University, BA