

VISIONS

Koret Vision Institute + Beckman Vision Center + Department of Ophthalmology

Annual Report Issue Fall 2004

University of California San Francisco + That Man May See

Focal Point



Welcome to our newly designed VISIONS newsletter and Annual Report for the

Department of Ophthalmology and That Man May See. As our family of supporters, you are the first to view our message in this new format, with its focus on people who are making a difference.

First of all, thank you for your generosity. By your contributions to That Man May See, our support foundation, you are helping us serve our mission: to fight blindness and combat eye disease throughout the Bay Area, the nation, and the world. Our commitment is to seek cures, through state-of-the-art research, patient care, and education to eliminate blindness in our lifetime.

As a Pediatric Ophthalmologist, I encounter children and families everyday who count on us for the finest care when they are in their greatest need – seeking the hope that this child will see. Or, to find the answer to a particular medical dilemma before sight is lost.

Our faculty and medical staff work with people of all ages – from infants to seniors. Two of our current research studies are focused on Age Related Macular Degeneration, with breakthrough studies aimed at solving this increasing medical challenge, expected to affect nearly 50% of us, absent a cure, as we live longer lives.

Housed in the Koret Vision Institute, our faculty is amongst the finest in the world. We are truly fortunate to be part of one of the top research universities in the nation. Once again this year, the UCSF medical school ranks among the top ten for both research-based and primary care education and training – one of only two universities to have a high rank in both categories.

Please enjoy this new publication. Thank you again for being a part of our special family at the Department of Ophthalmology.

Sincerely,

Craig Hoyt, MD
Theresa M. and Wayne M. Caygill, MD, Professor and Chairman
Department of Ophthalmology
University of California, San Francisco



Envision the Future

Welcome New Faculty

Kimberly Cockerham, MD, Erik Ullian, PhD, and Hilary Beggs, PhD

“Like great sports teams, we went after the best athletes in medicine,” says Stephen McLeod, MD, Associate Professor of Clinical Ophthalmology and Vice Chairman for Academic and Clinical Affairs at UCSF’s Beckman Vision Center. “With help from That Man May See’s Faculty Recruitment and Retention initiative, we’re on a

quest for new faculty with the vision and drive to become champions,” continues McLeod. “We’re proud of our three newest faculty recruits, and believe they are influencing research and clinical practice profoundly in their respective specialties.”

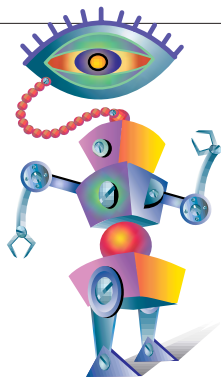
Kimberly Cockerham, MD, moved to San Francisco from Pittsburgh, PA, where she was

Director of Neuro-Ophthalmology and Orbital Disease and Plastics Reconstruction and Fellowship Director at Allegheny General Hospital. The sports analogy works especially well for Dr. Cockerham, as she was Team Ophthalmologist for the Pittsburgh Pirates. Dr. Cockerham received her MD from George Washington University Medical School and

her Bachelor of Arts degree in biology from the University of California, San Diego. With numerous honors, she most recently received the American Academy of Ophthalmology Achievement Award.

Erik Ullian, PhD, comes to UCSF from the Stanford University School of Medicine.

Continued on page 2



Ophthalmology Insight

High-Tech Wavefront Technology Dramatically Improves Refractive Outcomes

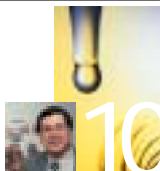
One of the newest refractive surgery advances, Wavefront technology, dramatically increases the number of patients who can benefit from successful refractive surgery. The state-of-the-art Wavefront device was adapted

from a sophisticated optical system that allows astronomers to clearly view celestial objects through land-based telescopes. The system was also used to repair and upgrade the Hubble Telescope.

Thanks to one of the Department’s investigators, Co-Director of the UCSF Refractive Surgery Service, Stephen McLeod, MD, this new

Continued on page 2

A PEEK INSIDE:



Research Profile: Seeking a Cure for Glaucoma
The Patient’s Point of View: Jeanne Robertson



where he conducted specialized research as a postdoctoral fellow, sponsored by the Zaffaroni Fellowship in Addiction Research. As a neurobiologist, Dr. Ullian is concerned about how nerve cells communicate with each other and how understanding this process will

impact research and treatment, ranging from glaucoma to regeneration of damaged nerves. He graduated with a Bachelor of Arts degree with honors in biological science from the University of Chicago, and was awarded a doctoral degree in Neuroscience from UCSE.

Hilary Beggs, PhD, was a Postgraduate Researcher in the Department of Physiology at UCSF when she joined the Department of Ophthalmology, having previously completed her PhD at the University of North Carolina at Chapel Hill. She graduated cum laude with a

Bachelor of Science in biology from Washington and Lee University in Lexington, VA. Her work is distinguished by an impressive array of collaborations with top research teams at UCSF and around the world.

"What these extraordinary new faculty members have in

common is their ability to see the future," says Creig Hoyt, MD, Chairman of the Department of Ophthalmology. "They see it, and they want to change it for the better with breakthrough vision research." ●



Dr. Stephen McLeod demonstrates the use of Wavefront technology

High-Tech Wavefront Technology

Continued from page 1

technology is available at UCSF – bringing new clarity to patients and providing new opportunities for ground breaking research.

"Wavefront technology can produce superior vision quality, and a lower risk of glare and halo in low-light conditions, for patients who qualify," says Dr. McLeod, who is Department Vice Chair, and Medical Director of the Ophthalmology Clinics. Dr. McLeod also co-directs the new UCSF Collaborative Vision Research Group, which applies technology and partnerships from other fields of study to address specific ophthalmic conditions and develop breakthrough medical procedures.

"We want to ensure that outcomes of this exacting refractive surgery will be consistent for all of our patients," Dr. McLeod says. "Since Wavefront LASIK treatments can be very sensitive to temperature and humidity, in collaboration with industry engineers, we have created the most predictable, controlled environment available for the Wavefront LASIK system at UCSF."

Donor Recognized Need

A long-distance sailor who now has 20:20 vision without glasses or contacts, attorney Donald McCubbin recognized the importance of bringing the newest high-technology laser adjustment for vision to UCSF.

Thanks to a generous contribution from McCubbin, patients, surgeons, and scientists now benefit from Wavefront technology that dramatically redefines the outcomes of refractive surgery. This new technology can be used to treat myopia (nearsightedness) and astigmatism, for patients who would otherwise be at increased risk of glare and other complications.

Increasing Refractive Success

"As a referral center, we are defining the patients most likely to have a good outcome with refractive surgery, including Wavefront technology and standard LASIK surgery," Dr. McLeod explains.

New studies at the Beckman Vision Center will evaluate Wavefront technology to establish the range of patients who can be

treated successfully, and to find new ways to treat complications. Currently, standard LASIK surgery is best for patients with thin corneas or high degrees of nearsightedness; but Wavefront technology can be used successfully for patients with higher corrections and larger pupils who were not previously good refractive surgery candidates.

New Lens, Cornea & Disease Studies

Investigating new intraocular (implanted) lenses and a sight-saving artificial cornea, Dr. McLeod has been working in collaboration with bio-engineers at UC Berkeley, and with scientists at the start-up company Visiogen (Irvine, CA).

Patients may not need reading glasses after cataract surgery, with the "accommodative" artificial lens that Dr. McLeod has developed in collaboration with Visiogen investigators. Early studies show that the spring-loaded intraocular lens allows a significant focus change from near-to-distance vision, up to 2.5 diopters. The research will be

presented at the October American Academy of Ophthalmology meeting. Clinical trials of the lens are currently underway in Columbia and in Germany, and FDA studies are expected to begin next year.

There continues to be tremendous need for artificial corneas, because many patients are at a high risk for corneal transplant rejection due to severe ocular scarring and corneal blood vessel growth, or a history of previous rejections. In collaboration with UC Berkeley bio-engineers, Dr. McLeod is using techniques that modify the surface of a plastic, artificial cornea to mimic collagen, so they may be better integrated with surrounding tissues at a cellular level. In vivo studies are expected to begin in the coming months.

Recent studies by Dr. McLeod and colleagues identified new methods for early diagnosis of corneal infections that could significantly reduce the leading cause of monocular blindness in the world. Using a cheaper, more efficient sampling and diagnostic procedure, technicians in the U.S.

and countries of the developing world could identify the infectious organism more accurately, for more effective treatment.

Unique Research Environment

"This is an extraordinary and unique research environment," says Dr. McLeod. "We have a rich community of innovative scientists and engineers, and a vibrant biotech community, brimming with exciting young people and ideas. We could not do this work at any other place in the country." ●



First-Year Residents – Outstanding Physicians

Four outstanding physicians who are first-year residents in ophthalmology will pursue a rigorous three-year specialty training program working closely with the academic staff. They were selected from over 300 applicants from across the U.S. Offering one of the most sought-after residencies, the UCSF Department of Ophthalmology is widely recognized for excellence in education, research and clinical care.

Diamond Tam, MD
A native of Vancouver, B.C., Canada, Diamond Tam, MD, received a BSc degree in Biochemistry and Chemistry at the University of British Columbia. He received his medical degree from the Royal College of Surgeons in Dublin, Ireland, in 2003, and completed his internship at the Hospital of St. Raphael in New Haven, CT.

Anthony Agadzi, MD
Born in Accra, Ghana, Anthony Agadzi, MD, received a BA in Biology from Macalester College, St. Paul, Minnesota, in 2003. He graduated with a medical degree from the University of Minnesota Medical School, and completed an internship in Internal Medicine at Mt. Sinai Medical Center in Miami Beach.

Tina Rutar, MD
Tina Rutar, MD, was born in Ljubljana, Slovenia. She graduated from Dartmouth College with a BA in Biology, and received her medical degree from Harvard Medical School in 2003. Dr. Rutar completed the Combined Residency Program in Pediatrics at The Boston Children's Hospital.

Bryan Winn, MD
Born in Mineola, New York, Bryan Winn, MD, received his MA from Amherst College. He graduated with a medical degree from Columbia University College of Physicians & Surgeons in 2003, and completed an internship in internal medicine at Brigham and Women's Hospital in Boston. ●



Clinical Fellows – Contribute to Care

Physicians and scholars work closely with faculty as UCSF Clinical Fellows.

Donald Stone, MD, Cornea and External Disease

Born: Dalhart, TX
College: Texas Tech University, Lubbock, TX, Cell and Molecular Biology
Medical School: University of Texas Southwestern Medical School, Dallas, TX
Internship: Presbyterian Hospital of Dallas
Residency: Dean A. McGee Eye Institute, University of Oklahoma, Oklahoma City, OK

Krista Ramonas, MD, Ocular Oncology

Born: Cleveland, OH
College: Georgetown University, Washington, DC, Biology
Medical School: Loyola Stritch School of Medicine, Chicago, IL
Internship: Resurrection Hospital, Chicago
Residency: Mount Sinai School of Medicine, New York, NY

Orin Zwick, MD, Oculoplastic and Reconstructive Surgery

Born: Philadelphia, PA
College: Cornell University, College of Human Ecology, Ithaca, NY, Nutritional Science
Medical School: MCP Hahnemann University School of Medicine (Currently Drexel University College of Medicine), Philadelphia
Internship: Presbyterian Medical Center, University of Pennsylvania Health System, Philadelphia
Residency: Temple University Hospital, Philadelphia

Michael Saidel, MD, Cornea and External Disease

Born: Park Ridge, IL
College: University of Arizona, Tucson, AZ, Philosophy and Biochemistry
Medical School: University of Illinois at Chicago
Internship: Tucson Medical Center
Residency: Tulane University, New Orleans, LA

Michelle Nee, MD, Glaucoma

Born: Baltimore, MD
College: Massachusetts Institute of Technology, Cambridge, MA Chemistry
Medical School: Johns Hopkins, Baltimore, MD
Internship: Fairfax Hospital, Falls Church, VA
Residency: UCSF (one of our own)

Nisha Acharya, MD, Cornea and External Disease

(not pictured)
Born: Wilmington, DE
College: Stanford, Biological Sciences
Medical School: University of California, San Francisco
Internship: Brigham and Women's Hospital, Boston, MA
Residency: Massachusetts Eye and Ear Infirmary, Harvard, Boston ●

TMMS Thanks You

Thank you for your gifts received between July 1, 2004 and September 30, 2004. You are helping us meet the Newcomb Challenge!

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The Department of Ophthalmology would also like to thank the following for gifts made through the UCSF Foundation:

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The Glaucoma Foundation

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UCSF International Ophthalmology Pacific Rim Center for Vision

The Pacific Rim is our neighborhood," says Creig Hoyt, MD, Chairman of Ophthalmology at UCSF. "And our community throughout the Bay Area is largely Asian American. We want to serve the local community and the world community, through our work in Ophthalmology at UCSF."

The UCSF Pacific Rim Center for Vision focuses on Bay Area, the U.S., and Asian countries with research, treatment, and education to combat devastating eye disease among Asian families and individuals.

UCSF Ophthalmology is a leader in developing medical relationships within Pacific Rim countries – and with individuals of Asian heritage who make the Bay Area home. The Pacific Rim Center for Vision encompasses academic programs, research, medical outreach, and scholarly exchange.

Gateway to the Pacific

San Francisco is America's gateway to the Pacific, and UCSF Ophthalmology has a strong tradition of exchange with individuals and communities throughout Asia.

Asian Americans residing in the Bay Area represent a population that has increased by over 60% since 1980. In particular, Chinese residents of San Francisco grew by 85% over the twenty-year period. Nearly two-thirds of the Asian Americans in San Francisco are now Chinese.

Richard Abbott, MD, Clinical Professor of Ophthalmology, chairs the Guidelines Committee for the International Council of Ophthalmology. Dr. Abbott makes frequent trips to Asia, recently participating in a guidelines workshop of the Chinese Ophthalmological Society in Wuhan, China, focused on strengthening programs for the prevention of blindness and improving the delivery of eye care in developing countries. Included in this initiative is a plan of action to foster technology transfer and training related to the treatment of eye diseases recently emerging in these countries.

American Chinese Eye Study

A new mobile Eye Van, including a state-of-the-art examining room and a dedicated team of medical doctors and researchers, is winding through the streets of San Francisco. The Eye Van begins its journey in Chinatown as a project of the UCSF Department of Ophthalmology and S.F. General Hospital Medical Center. These world-class doctors are providing a full spectrum of eye care at eight community health centers of the San Francisco Department of Public Health.



Shan Lin, MD, Stuart Seiff, MD, and Grace Jeng, OD

This American Chinese Eye Study is headed by Shan Lin, MD, Assistant Professor of Clinical Ophthalmology at UCSF and Director of Glaucoma Services at San Francisco General Hospital, and Stuart Seiff, MD, Professor of Ophthalmology at UCSF and Chief of Ophthalmology at S.F. General Hospital. The project benefits from the assistance of Kuldev Singh, MD, MPH, Professor of Ophthalmology at Stanford University, respected epidemiologist and biostatistician.

Glaucoma may be the most common cause of blindness among Chinese, according to recent studies from Singapore. The UCSF American Chinese Eye Study reaches out to members of this community who are less likely to seek out vision care, due to financial or cultural issues.

Research Around the World

The global vision of the Francis I. Proctor Foundation and the Department of Ophthalmology at UCSF looks toward a world where avoidable blindness in all countries becomes a thing of the past. Faculty and researchers in the Proctor Foundation engage in projects as far reaching as Africa, India, the Middle East, and Asia.

Heading this international work is John P. Whitcher, MD, MPH, Professor of Clinical Ophthalmology. He leads teams of researchers to remote villages "where families can't read, drive, or take care of their children due to devastating blindness," describes Dr. Whitcher. "We are seeking immediate and long-range solutions, finding that most of this blindness is curable or preventable through treatment and education."

The long-term commitment of the Proctor Foundation is to help improve the quality of life for the most disadvantaged people in countries of the developing world. The Proctor Foundation's mission is to combine state-of-the-art laboratory research with rigorous clinical application in the field to provide practical answers for prevention of blindness worldwide. These projects are built on a solid foundation of previous research experience, collaboration with institutions and individuals in host countries, and the development of both human and material resources locally.

The mobile Eye Van and initiation of the American Chinese Eye Study are made possible by funds from Friends of the Congressional Glaucoma Caucus Foundation and That Man May See. Funds for the Pacific Rim Center for Vision were initiated by Dr. and Mrs. Samuel Kimura, who established the Japan - UCSF Eye Society Fund. Pearl Kimura recently announced a change in the Fund's name to Pacific Rim Vision Fund, to incorporate and welcome all Asian cultures. ●



The Francis I. Proctor Foundation and the UCSF Department of Ophthalmology international programs include work in China, Nepal, India, Burma, Myanmar, Egypt, Ethiopia, and Japan, among others.

**ARAVIND
HOSPITAL**

Dear Friends of That Man May See,



In our Annual Report 2003 - 2004, we reflect on a year characterized by change: Creig Hoyt, MD, as our new Chair and Director of the Department of Ophthalmology; Kathleen Rydar as the new President of That Man May See (TMMS); and myself as the new Chair of the Board of TMMS. We welcomed new Board members to our Foundation and new faculty to our Department this past year – and all have made us a stronger organization.

When our President of 10 years, Tom Boyden, passed away suddenly in 2003, his leaving sparked a generous response of gifts to TMMS and the Department. A new departmental Chair was established in Tom's name by Andrew Yau, and many generous gifts came from near and far, reminding us of the thought, "When it's dark enough, we can see the stars." Without a leader for six months, we felt the importance of daily, individual connectedness with our contributors.

Thanks to generous private gifts and the support they leveraged from government sources, such as the National Institutes of Health and the National Eye Institute, the Department received over \$5 million in gifts and grants in our recently completed fiscal year. That Man May See provided the seed funding for many pioneering vision research and care projects. The real beneficiaries of these gifts and grants are the children, families, and individuals we serve through breakthrough research, patient care, and education – so that all may see in their lifetimes.

New initiatives begun this year take the important work of our faculty to new audiences:

- Collaborative Vision Research Group launched an innovative series of breakfast meetings called Eye Openers: Breakthroughs in Vision Research, funded by Mellon. Our aim is to communicate state-of-the-art expertise in both clinical medicine and basic science, essential to create significant therapeutic advances in ophthalmology. Our proven ability to collaborate with scientists and engineers working in relevant disciplines at corporations and other universities gives us a unique leadership position.
- Pacific Rim Center for Vision encompasses the leadership work of the Francis I. Proctor Foundation and the UCSF Department of Ophthalmology, in the Bay Area and around the world. We are supporting eye research and patient care related to the specific populations of such Asian countries as Japan, Korea, Taiwan, China, and India.
- New Chairman's Forum for Innovation began with a generous matching gift from Bernie Newcomb, focused primarily on unrestricted support to the Department, yet recognizing and engaging all of our generous contributors to the Annual Fund, whose gifts total \$1,000 or more.

The strength of That Man May See is its ability to seed fund faculty research at the earliest stages, so these projects are positioned for larger support. Our energy comes from the dedication, knowledge, and enthusiasm of our faculty – as well as from you, our contributors and friends. You make so much possible, and we thank you.

Sincerely,

Stephen S. Smith
Chairman, That Man May See, Inc.

To join the Chairman's Forum, call 415.476.4016



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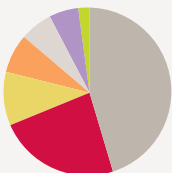
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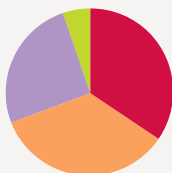
UCSF Department of Ophthalmology Source of Funds

Clinical Revenue	\$6,686,431
National Institutes of Health	\$3,449,973
Private Sources of Funds	\$1,488,969
State Funds	\$1,076,041
Endowment Income	\$901,108
Hospitals & Medical School	\$813,251
Contracts & Clinical Trials	\$314,974
Total	\$14,730,747



■ Clinical Revenue
 ■ National Institutes of Health
 ■ Private Sources of Funds
 ■ State Funds
 ■ Endowment Income
 ■ Hospitals & Medical School
 ■ Contracts & Clinical Trials

UCSF Department of Ophthalmology Use of Funds



Faculty/Clinical Fellows	\$5,065,258
Research & Administrative Staff, Supplies & Equipment	\$5,147,408
Practice (clinic) Expenses	\$3,742,149
Miscellaneous and Reserves	\$775,932
Total	\$14,730,747

■ Faculty/Clinical Fellows
 ■ Research & Administrative Staff
 ■ Practice (clinic) Expenses
 ■ Miscellaneous and Reserves

Seed Funding for Research

That Man May See Grants \$1,109,490

July 1, 2003 to June 30, 2004

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Hearst Fellowship Support
 Residency Education Program Support
 Support for Vision Research Seminar Speakers
 Recruitment, Retention, and Training of Postdoctoral Fellows
 San Francisco General Hospital Children's Eye Clinic

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Jorge Alvarado, MD - Glaucoma Research Laboratory Bridge Funding
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 Daniel Schwartz, MD - Imaging and Treating Bruch's Membrane Lipid Deposits
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 David Sretavan, MD, PhD - RGC Axon Guidance Molecules in Experimental Glaucoma
 Erik Ullian, PhD - New Faculty Assistance Grant

Sponsored Research

The Department of Ophthalmology received grants totaling \$4,172,076 from organizations such as the National Institutes of Health, National Eye Institute, Peninsula Community Foundation, Foundation Fighting Blindness, and Hillblom Foundation. These grants, which came through the Office of Sponsored Research at UCSF, are often leveraged from seed funding provided by That Man May See. ●

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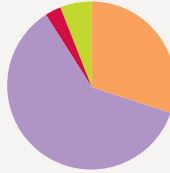
Description	Total	Percent
Individuals	\$1,621,820	83
Corporations	\$137,333	7
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Description	Total	Percent
Unrestricted/Other	\$589,385	30
Specific Vision Research	\$1,203,248	61
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Continued on page 10

Distinguished Service Awards

At last year's Annual TMMS Vision Awards Dinner, three new distinguished service awards were inaugurated to give prominent recognition of our friends at That Man May See and the Department of Ophthalmology.

"Steven G. Kramer Award" was given to Theresa and Wayne Caygill, who have provided exemplary service to That Man May See.

"That Man May See Volunteer Award" was presented to Shirley Reich, TMMS Board Member, as the most active TMMS volunteer and solicitor.

"Thomas W. Boyden Faculty Award" named Dr. Richard Abbott the faculty member most helpful to TMMS. This award was named in honor of the late Tom Boyden, former TMMS President, because of his great relationship with and respect for the faculty. ●



New Members Join TMMS Board of Directors

Three community leaders joined the TMMS Board of Directors during That Man May See's Annual Meeting last October. We welcome our latest members.



Thomas J. Bird is CEO of TBJ Ventures, Inc., a high tech investment company specializing in computer hardware and software startups. Tom is on the Board of Directors at the Napa Valley Symphony and Friends of the Lincoln Theatre. He is a sports car enthusiast and collector. He and his family reside in Napa.



Jack Busch is a veteran executive recruiter in Silicon Valley with his own firm, Busch International. Jack started his electronics career at Intel Corporation where he was the Director of Major Accounts. Jack has been an active and effective member of the Board of the Peninsula Center for the Blind and Visually Impaired. Jack and his wife live in Los Altos.



Edward "Ted" Collins is a general partner with ChinaVest, which provides long-term investment capital and management expertise to growing companies doing business in or with the economies of Greater China - China, Hong Kong and Taiwan. Ted also serves on the boards of Mediostream, Single Chip Systems, and the ROC Taiwan Fund. A member of the Pacific Union Club, he and his wife reside in San Francisco. ●

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"Your gifts inspire our faculty in their work to fight blindness and seek cures for eye disease. Thank you for making a difference!"

Kathleen L. Rydar
 President
 That Man May See

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Dr. Creig Hoyt First American Editor *British Journal of Ophthalmology*

When you ask Creig Hoyt, MD, why he is the editor of the *British Journal of Ophthalmology (BJO)*, he smiles and suggests, "that strange things happen in life."

Dr. Hoyt points out that Richard Smith, former editor of the *British Medical Journal*, appointed him to this post in hopes that the *BJO* would become more international in focus. During Dr. Hoyt's four-year tenure, the *BJO* has become the leading international ophthalmology journal with only 33% of its manuscripts now coming from Great Britain and the largest group of manuscripts coming from Asia.

The *British Journal of Ophthalmology* is available on-line free to all countries that are listed as low income countries by the World Bank, and features a column entitled "World View" that specializes in the problems of the underserved in the developed world as well as the unique medical problems of the developing world.

Retinal surgeon Robert Bhisitkul, MD, serves as the web editor of the Journal and has been instrumental in bringing on-line translation of the abstracts of the papers published in the hard copy. At present, abstracts can be read in English, Portuguese and Chinese. Plans are under way to add Spanish and Japanese in the near future, thus making the *British Journal of Ophthalmology* a truly international publication.

Unique Cover Art

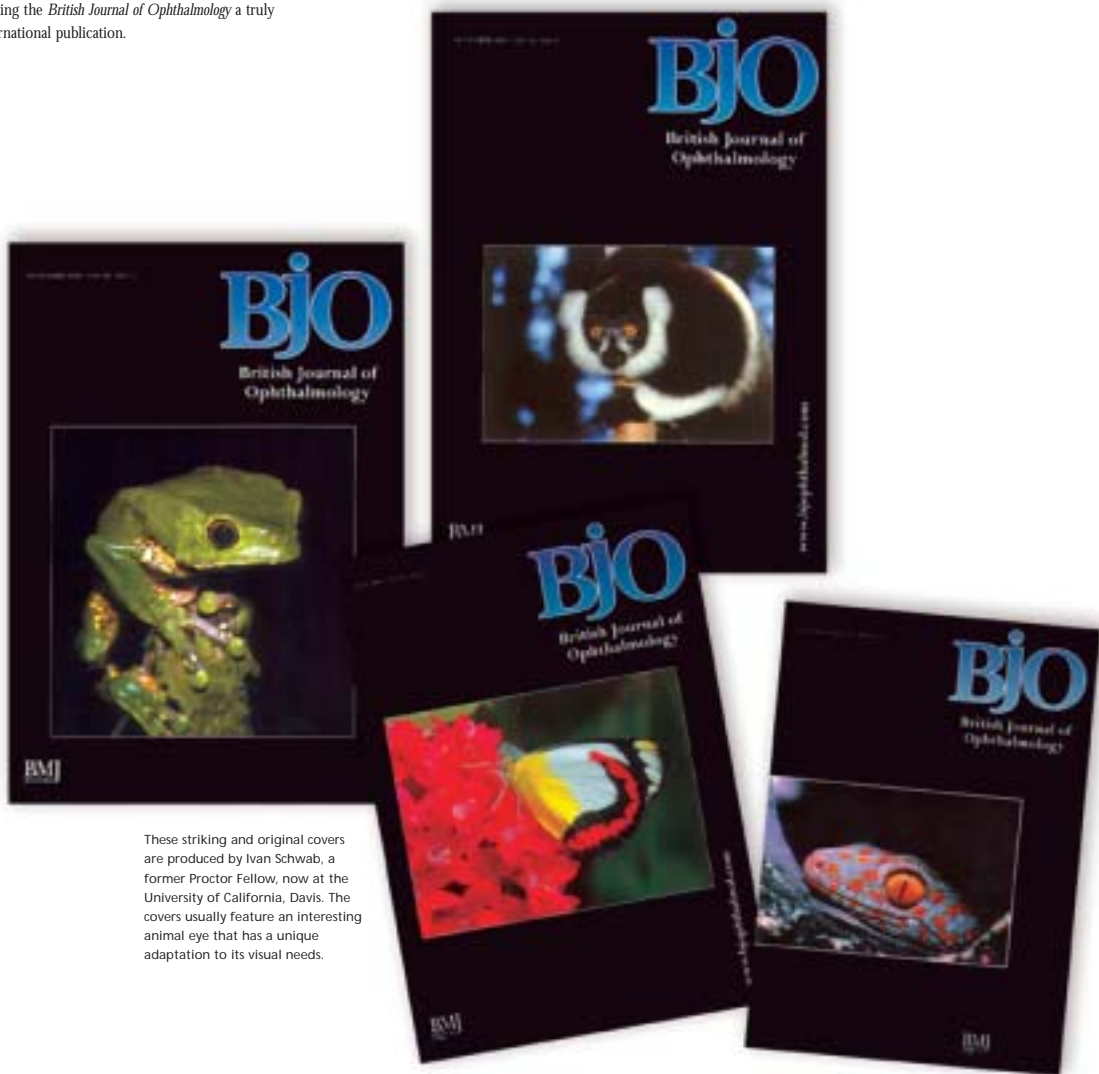
Observation of the covers of the *British Journal of Ophthalmology* reveals that they are quite unlike those found on the usual medical journal. These striking and original covers are produced by Ivan Schwab, a former Proctor Fellow, now at the University of California, Davis. The covers usually feature an interesting animal eye that has a unique adaptation to its visual needs.

For those looking for the light-hearted in their medical reading, cartoons are also published in the *BJO* – provided by Michael Balis, MD, a 1976 graduate of the UCSF Ophthalmology residency program.

Dr. Hoyt argues that fewer and fewer practicing physicians read standard medical journals, and many ophthalmologists obtain nearly all of their information from so-called throw-away publications. He suggests that this is primarily because medical journals fail to be creative,

attractive and easy to read. He emphasizes that medical journals should be free of medical jargon, written in an active, rather than a passive voice and be published primarily in relatively short narrative formats with additional data and material being published as data supplements on the website.

Although his tenure as *BJO* editor was scheduled to end in May 2005, Dr. Hoyt has recently been asked to stay as the editor for another two years, to continue to guide the *British Journal of Ophthalmology* in new directions. ●



These striking and original covers are produced by Ivan Schwab, a former Proctor Fellow, now at the University of California, Davis. The covers usually feature an interesting animal eye that has a unique adaptation to its visual needs.

Seeking a Cure for Glaucoma Dr. Jorge Alvarado's team investigates at the cellular level

"We want to revolutionize the treatment of glaucoma in the near future and demonstrate an effective treatment for this blinding disease within the next five years,"

reports Jorge Alvarado, MD, Co-Investigator with William Reed, MD, on a promising glaucoma research study underway at UCSF. Dr. Alvarado is Professor of Ophthalmology at UCSF. Dr. Reed is Director of the new state-of-the-art Center for Cellular Therapeutics at UCSF.

Known as the "silent thief of sight," glaucoma is a puzzling disease with no cure. Yet, it's the leading cause of blindness, affecting three million Americans and 70 million people worldwide. Glaucoma is a chronic and irreversible disease that can sometimes be arrested before it leads to blindness, but requires treatment for life.

Novel Research at the Cellular Level

Dr. Alvarado's novel research gives hope and could provide the answer to the cause of glaucoma – at the cellular level – rather than just managing the signs

and symptoms of the disease. Generous contributors to That Man May See are funding this breakthrough research aimed at combating glaucoma worldwide.

Glaucoma results from a backup of fluid in the eye, similar to a stopped up sink. The pressure builds and eventually damages the optic nerve, resulting in loss of sight.

Cellular Therapeutics

Dr. Alvarado's new approach for treating glaucoma anticipates a repair of the eye's damaged drainage system, for a sustained period of time, based on two original and innovative discoveries.

One is the identification of "monocytes," large white blood cells formed in the bone marrow, which are capable of repairing the drainage system in patients with glaucoma. The other is a new methodology known as Cellular Therapeutics, developed at the UCSF Center for Cellular Therapeutics, that could introduce monocytes into glaucoma patients' eyes to repair the drainage system. The researchers envision isolating monocytes from a glaucoma patient,

modulating these cells in the laboratory, and then introducing the monocytes into the same patient's eye (i.e. auto-transplantation).

Once inside the eye, the monocytes are expected to reach the drainage system where they will search for, identify, and repair any abnormalities present – including even the elusive and fundamental derangement responsible for the development of the glaucomatous disease process in the first place. The transplanted monocytes will circulate on a recurrent basis through the drainage system becoming engaged in its sustained repair.

Vaccinating Against Glaucoma

According to Dr. Alvarado, "This treatment will be tantamount to 'vaccinating' a given patient with his or her own monocyte cells to maintain a disease-free drainage



Dr. Jorge Alvarado

system for the eye. This sounds like magic," explains Dr. Alvarado, "yet such tasks are carried out by monocyte cells all the time as they flow through most tissues of the body, searching for defects and proceeding to repair them! We can now point the monocyte cells to target specific repairs in the eye."

That Man May See and Dr. Alvarado are grateful to the generous contributors to date who make this research possible: The Thomas J. Long Foundation; Peninsula Community Foundation, provided by The Dorothy & Edward Muschner Charitable Fund; Lumenis; Doris Raffetto; Patricia Robinson; June Carras; Sandy and Jeanne Robertson; and Jeanne Copeland. ●

The Patient's Point of View Jeanne Robertson Appreciates Honest and Caring Approach at UCSF



Jeanne Robertson describes a "fat folder" from years of diagnosis and treatment for her eyes. It started when she still lived in Chicago and continued when she moved to the Bay Area a number of years ago to marry investment banker, Sandy Robertson, whom she had known since high school.

Now patients of Jorge Alvarado, MD, both Robertsons feel grateful for his "honest and caring approach," one that she says "breeds confidence" and helps to encourage her belief that glaucoma can be halted in her lifetime.

"We can all expect to live longer today," says Mrs. Robertson. "And good vision is essential for a good quality of life."

"What I like is that Dr. Alvarado is a very focused clinician, doing careful analysis and diagnosis. I also appreciate his innovative strategies. He is continually revising the treatment as new evidence is presented," she says. "I have no doubt that this is translational research at its best."

Mrs. Robertson knows UCSF well, serving on the UCSF Foundation Board of Directors for a number of

years, and as its chairman 1997 – 2000. She also has been involved with Langley Porter Psychiatric Institute, and is the current Chair of the Advisory Council of the Friends of Langley Porter.

"Sandy and I have been admirers of That Man May See for years," she says. "We support Dr. Alvarado's work because we know that better treatments can only be based on excellent research. We need to know fundamental biological processes in order to develop better treatments and cures."

She portrays Dr. Alvarado as a "wonderful communicator" who has a clear understanding of what the information in the historic "fat folder" means – and what can be done now and in the future to avoid "creeping glaucoma."

"In my case, it is the early stage, and I am trying to prevent glaucoma from happening. Dr. Alvarado was recommended as 'the doctor to see.' Everyone at risk for glaucoma should be as lucky as I am." ●

Overcoming Eye Disease Dr. Stephen McLeod: Developing Breakthrough Solutions

"In ophthalmology, we are far ahead of the curve of knowledge and technology, so that our medical and surgical solutions can defeat disease," says cornea specialist Stephen McLeod, MD, who serves as Department Vice Chair, Medical Director of the Ophthalmology Clinics, and Co-Director of the UCSF Refractive Surgery Service.

"At UCSF, we can impact people's lives," he says. "This is a unique Department that encourages attentive patient care, basic science investigation, innovative collaboration, and studies that lead to better outcomes for our patients."

Focus on Applied Science

"I liked the idea of applied science," Dr. McLeod says, explaining that he chose to become a physician after considering philosophy, theoretical physics and engineering. "Disease is often relentless, but in ophthalmology you can often return the patient to a state of health."

Today, Dr. McLeod is known internationally as a leading ophthalmic investigator. He co-directs the new UCSF Collaborative Vision Research Group – innovators who apply technology from other fields of study to develop breakthrough

medical procedures in ophthalmology.

His own work includes a new accommodative intraocular (implanted) lens, that allows a dynamic and continuous change in focus from distance to near, thus eliminating the need for reading glasses after cataract surgery. Early studies, in collaboration with the start-up company, Visiogen (Irvine, CA), show that the spring-loaded intraocular lens allows a focus change from near-to-distance vision, up to 2.5 diopters. Clinical trials of the lens are currently underway in Columbia and in Germany, and FDA studies are expected to begin next year.

Investigating a sight-saving artificial cornea, Dr. McLeod has been working in collaboration with bio-engineers at UC Berkeley. Using biotechnology to modify the surface of the cornea, these implants may be better integrated with surrounding tissues at a cellular level. *In vivo* studies are expected to begin in the coming months.

Jamaica to England to UCSF International travel was part of Stephen McLeod's childhood, and he continues to travel to pursue research in external corneal disease – including a collaborative project to identify

new methods for early diagnosis of corneal infections that could significantly reduce the leading cause of monocular blindness in the world. Early results at the Aravind Eye Hospital, with the UCSF Proctor Foundation, found that a cheaper, more efficient sampling and diagnostic procedure could identify the infectious organism more accurately, for more effective treatment.

Born in Mandeville, Jamaica, Dr. McLeod grew up in Henley, England, where his father conducted botanic research at the Grassland Research Institute in Reading. The family returned to Jamaica when his father was appointed Director of R&D for the Ministry of Agriculture.

After high school in Jamaica, Dr. McLeod attended Dartmouth College and Johns Hopkins University School of Medicine. He completed an internship at

Beth Israel Medical Center in New York City; a residency at the Illinois Eye and Ear Infirmary at the University of Illinois at Chicago; and a fellowship in cornea, external disease and refractive surgery at the USC Doheny Eye Institute. He then returned to the Illinois Eye and Ear Infirmary as the Director of Refractive Surgery.

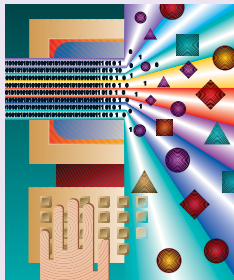
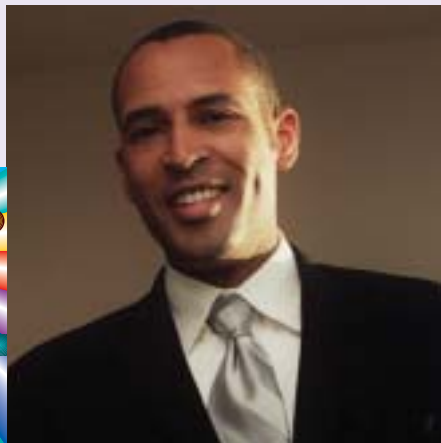
Dr. McLeod was invited to join the full-time UCSF faculty in 1998, where he continues to specialize in both refractive surgery and corneal disease. He currently serves as Chair of the Preferred Practice Pattern (PPP)

Panel on Refractive Errors for the American Academy of Ophthalmology, on the FDA's ophthalmic devices panel, and on the editorial board of the American Medical Association's journal for ophthalmology research, the *Archives of Ophthalmology*.

At Home in San Francisco

Dr. McLeod lives in San Francisco with his wife, the watercolor artist Marion Faymonville. When he is not at work, he enjoys tennis, wine and photography. ●

Dr. Stephen McLeod



Proctor Foundation Perspective Kimura Lab Welcomes Dr. Erich Strauss

This is a great opportunity, in terms of vision disease, to study what has not yet been explored," says Erich Strauss, MD, recently named Director of the Pearl and Samuel J. Kimura Ocular Immunology Laboratory in the Francis I. Proctor Foundation at UCSF. Dr. Strauss is also Assistant Professor of Ophthalmology in the Beckman Vision Center, Department of Ophthalmology.

Dr. Strauss is a specialist in immune and inflammatory eye disease and an alumnus of the Proctor Foundation, UCSF. His clinical practice specializes in ocular surface immune and inflammatory diseases, and he has initiated a program of laboratory-based research on the mechanisms mediating the severe, vision-threatening forms of ocular surface immunoinflammatory disease. Dr. Strauss completed subspecialty

training in cornea, external disease and ocular inflammatory diseases at the Proctor Foundation, UCSF.

A native of Southern California, Dr. Strauss received his premedical education at Pasadena City College and the California Institute of Technology. At Caltech, he performed basic biomedical research and coauthored studies characterizing the molecular immunology of T-cell antigen receptor genes. He received his MD, magna cum laude, in a specialized joint program of Harvard-MIT Division of Health Sciences and Technology at Harvard Medical School, designed to train clinician-scientists.

While at Harvard, Dr. Strauss pursued and published research studies on the molecular mechanisms of gene transcription in hematopoietic cells. He completed a clinical ophthalmic residency at Harvard Medical School, Massachusetts Eye and Ear Infirmary.

"I am extremely pleased to have the opportunity to pursue my studies in the Kimura Lab," says Dr. Strauss. "It is a state-of-the-art facility for conducting basic research." ●





Eye Openers: Bioengineering Vision Breakthroughs

That Man May See has organized a breakfast series, with the first four sponsored by Mellon, for venture capitalists and entrepreneurial individuals, seeking to learn about new research under way at UCSF. This is a unique opportunity to:

- Share early-stage translational research aimed at new medical products, treatments, and procedures.
- Meet innovative researchers, scientists, medical doctors, and engineers, working collaboratively on technological breakthroughs.
- Create a dialogue between UCSF faculty and individual and corporate partners, intended to drive technology from idea to marketplace.

Research topics in the Eye Openers series include reports of groundbreaking projects by pioneering ophthalmology researchers, working in collaboration with scientists from UCSF, Caltech, and UC Berkeley. Recent programs in Silicon Valley have featured:

Dan Schwartz, MD – Macular Degeneration: Treatment Before Vision Is Lost
 Stephen McLeod, MD – New Vision: Bioengineering Ocular Implants
 Kim Cockerham, MD – Pacing the Face with Chip Technology
 David Sretavan, MD – Nanosurgery for Nerve Repair

A new Eye Openers program series begins in January, with breakfast sessions at 7:30 a.m. concluding at 9 a.m. To make a reservation for a single program or the series, contact That Man May See at 415.476.4016 or tmms@itsa.ucsf.edu ●

Former UCSF Residents Impact U.S. Retinal Care The Cordes - St. Louis Connection

Throughout the U.S., former UCSF residents and Cordes Society members impact the ophthalmic community. Four who trained as ophthalmology residents at UCSF during the past four decades were influenced by members of the retinal faculty and chose to devote their lives to the prevention and treatment of retinal disease. All were retinal fellows studying with Ed Okun, MD, at Washington University in St. Louis, and became active members of the prestigious Paul Cibis Club.

Isaac Boniuk, MD (UCSF 1965), and Dean Burgess, MD (1973) – Managing Physicians at the Barnes Retina Institute, St. Louis

Dr. Isaac Boniuk is Professor of Ophthalmology at Washington University in St. Louis, and Managing Physician (with Dr. Dean Burgess) at Barnes Retina Institute, one of the largest retinal practices in the U.S., with 14 retina specialists and over 100 employees. Originally from Canada, Dr. Boniuk obtained his MD at Dalhousie University in Nova Scotia, and completed his medical training in the U.S. At UCSF influenced by Ariah Schwartz, MD (1952) and Wallace Friedman, MD (1955), he decided upon a career in retina. He completed a retinal fellowship at Washington University, where he joined the faculty and has provided retinal care and training for decades. Dr. Boniuk and his wife Isabel enjoy playing tennis and have bicycled throughout the U.S., Europe and Canada.

Dr. Dean Burgess is Associate Professor of Ophthalmology at Washington University and Managing Physician at the Barnes Retina Institute. He attended the UCSF School of Medicine and completed his ophthalmology residency at UCSF, where Alex Irvine, MD (1968) and Ariah Schwartz, MD (1952) influenced him to pursue specialty training in retina. He completed a retinal fellowship at Washington University, studying with Drs. Ed Okun and Isaac Boniuk.

Edwin Boldrey, MD (1974), and Denis Carroll, MD (1974) – St. Louis to SF& Arizona

Dr. Edwin Boldrey (1974) and Dr. Denis Carroll (1974) completed their ophthalmology training at the same time at UCSF under the tutelage of Dr. Alex Irvine, who was developing one of the finest retinal training programs in the U.S. Impressed by Dr. Burgess and his exposure to retina in St. Louis, both followed him to Washington University for further specialty training in retina.

Dr. Edwin Boldrey is a longtime member of the UCSF clinical faculty and is one of six retina experts comprising Northern California Retinal Associates, with offices in the San Francisco Peninsula and South Bay. He is a member of the Northern California Retina Vitreal Association and American Society of Retina Specialists. Dr. Boldrey and his wife Cathie live in Los Altos Hills, and are avid sports fans who never miss a Stanford-Cal Berkeley football game.

Dr. Denis Carroll is an ophthalmologist in private practice with Retina Associates of the Southwest in Tucson, AZ. After completing a retinal fellowship at Washington University in St. Louis, he returned to his native San Francisco to join a practice with Dr. Ariah Schwartz. He developed wanderlust and moved to New Orleans for five years, before moving his family to Tucson. In his spare time, Dr. Carroll is an athlete and a sculptor, and has been commissioned to create a larger-than-life-size sculpture for the church he attends with his wife, Anne.

All four of these St. Louis-San Francisco-trained retinal specialists enjoyed the lecture by **Dwain Fuller, MD (1973)** at the most recent Paul Cibis Club meeting, where he was the visiting professor. Dr. Fuller completed a retina fellowship in Miami under the guidance of the "other Ed," the world-renowned Edward D. Norton, MD, founder of the Bascom Palmer Eye Institute at Miami University. ●

We would love to hear from you. Please send Cordes Society highlights to: tmms@itsa.ucsf.edu

Visionaries – Bright Futures Planned Gifts Leave a Legacy of Care

Members of the Visionaries – Bright Futures have included That Man May See in their financial and estate plans through a planned gift. Some have made bequests, provided charitable trusts, or life insurance policies with That Man May See as the beneficiary.

Some Visionaries create secure incomes for life through That Man May See's Gift Annuity Program. A gift annuity provides the opportunity to make a charitable gift and receive income for life.

But what happens to your gift after you send a check or make an estate plan that benefits That Man May See? You provide funds that strengthen the Department of Ophthalmology's mission of high quality and timely research, the finest teaching to generate and nurture the ophthalmologists of the future, and patient care that benefits individuals in need of consultation and treatment.

Donors who included That Man May See in their wills helped to fund the Faculty Recruitment and Retention program.

Last year, the Department embarked on an ambitious plan to recruit the brightest and best-trained faculty in the world to join the Department of Ophthalmology at UCSF. The high costs of living in San Francisco and the challenges of affording housing and education for young children can be daunting.

"I view this as 'Adopt-A-Doc,'" says Dick Olsen, board member and co-chair of the Faculty Recruitment and Retention Program. "These funds can be packaged as a relocation grant, capital funds for a new or remodeled lab, or an endowed research fund or professorship. I believe

this is an enticing package for new faculty as well as for donors who want to make a real difference today and for the long-range future," says Olsen.

Peter Mattson, board member and also co-chair of the Recruitment and Retention initiative, finds it important to include postdoctoral students among the mix of grants for this purpose. "I view these postdocs as offering the most leverage for the Department and That Man May See, as these young people ARE the future."

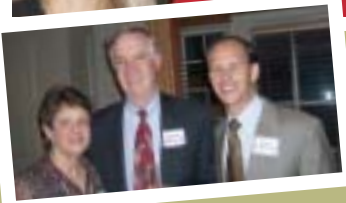
For further information about the Visionaries – Bright Futures program contact:

Kathleen L. Rydard
President
That Man May See
c/o Koret Vision Institute
10 Koret Way, Box 0352
San Francisco, CA 94143-0352
415.476.4016



Jim Livingston and Theresa Caygill

Rebecca Bleich, Liz Marsh, and Dr. Stephen McLeod



Carol Dowling, Dr. James Dowling, and Dr. Robert Hardy

That Man May See East Bay Event Honors Theresa Caygill and Jim Livingston

Friends of That Man May See gathered at the Claremont Country Club for a special evening honoring Theresa Caygill and Jim Livingston, distinguished supporters. Mrs. Caygill serves on the Honorary Board for TMMS, and Mr. Livingston is a member of the Board of Directors. Both individuals provide generously to TMMS for the benefit of the Department of Ophthalmology, with giving hearts that span many years. They are currently among the significant contributors, demonstrating their care for the faculty and the vision for ophthalmology. Members of the East Bay Council of Friends for TMMS, who planned the event, include Chair Dick Olsen, Rebecca Bleich, John de Benedetti, Janet Dinsmore, Art Harper, Jim Livingston, Dr. Fred Riedel, Rosanne Ogles, and Dr. Bob Stamper.



Shan Lin, MD, Stuart Seiff, MD, and Grace Jeng, OD at Eye Van unveiling featured on page 4.



Dr. David Sretavan Receives Blue Sky Award

David Sretavan, MD, PhD, Associate Professor of Ophthalmology and Physiology, received \$175,000 and the "Blue Sky" award, granted by the UCSF Basic Sciences Research Resources Oversight Committee for his project titled "Repair of Injured Axons with Micron-scaled Devices." A Blue Sky award is given to an investigator proposing innovative approaches to a bold and difficult project that will have a high level of impact. "It is an honor to have received this award, especially given the excellent quality of research projects submitted by the UCSF research community for this competition," said Dr. Sretavan acknowledging this prestigious award.

Recognized as an expert in the field of developmental neuroscience with special interest in axon molecular biology, optic nerve formation, and nerve regeneration, Dr. Sretavan is pioneering new surgical tools. He is investigating the intersection of biology and nanotechnology, which may one day make surgery possible at the unprecedented level of the single cell. Surgical operations on individual cells will likely involve novel miniature scalpels and other microdevices that incorporate the latest nanotechnological advances.

Research Scientist Receives Foundation Grant

Xiaorong Liu, PhD, a basic scientist in the Department of Physiology and Ophthalmology, received a \$25,000 research grant from the Knights Templar Eye Foundation. She is conducting research on the environmental and biochemical mechanisms that control the maturation of the retina and the visual system. The Knights Templar Eye Foundation is a humanitarian organization that supports eye research, surgical treatment and hospitalization for those who suffer from ophthalmic disease or injury.

Dr. Liu's graduate work focused on the question of what genes in the retina might play a role in the control of light/dark biological rhythms in animals. It is now appreciated that humans who lose retinal function can experience difficulties with their day/night cycles. "My ultimate scientific goal," she says, "is to understand as much as possible about the development and function of the visual system. I believe that investigating the maturation of the retina offers a chance to discover what part the retina plays in the development of the entire visual system."



UCSF Department of Ophthalmology Presentations At Annual American Academy of Ophthalmology (AAO) Meeting

The mission of the American Academy of Ophthalmology is to advance the lifelong learning and professional interests of ophthalmologists to ensure that the public can obtain the best possible eye care. The annual meeting of the AAO is the largest professional educational meeting for ophthalmologists in the world. Presentations and courses offered by members of the UCSF Department of Ophthalmology at this meeting help meet the educational goals of the Academy and are listed below:

Richard L. Abbott, MD
Claims, Lawsuits, and LASIK (instructor)

Preferred Practice Patterns: How Recent Clinical Trial Findings May Change Your Practice

Benefits of Developing an Ophthalmic Knowledge Base
International Clinical Guidelines – Update

Jorge A. Alvarado, MD
Inflammation Re-envisioned in Ophthalmic Disorders: Role of

Inflammation and Repair in Glaucoma

Lasers in Glaucoma (instructor)

Kimberly Cockerham, MD, FACS
Endoscopic Forehead and Eyebrow Elevation (instructor)
A Case-Based Approach to Practical Rheumatology (instructor)

Michael V. Drake, MD
Point-Counterpoint in Glaucoma: The Experts Debate

Allan Flach, MD
Medical Therapy of Open-Angle Glaucoma: A Complete Review of the Pharmacodynamics, Pharmacokinetics, and Toxicity of All Drugs Potentially Useful (senior instructor)

Douglas R. Fredrick, MD
What's New and Important in Pediatric Ophthalmology and Strabismus for 2004 (senior instructor)

Myopia: Why Does It Develop and Can We Prevent It? (senior instructor)

Edward L. Howes, Jr., MD
Zimmerman Lecture: Concepts in Ocular Inflammation: A Perspective

Creig S. Hoyt, MD
William F. Hoyt Lecture: What Do We Really Know About Amblyopia?
How to Read and Write a Scientific Paper (instructor)
Pediatric Neuro-Ophthalmology (instructor)

David G. Hwang, MD
Primary Eye Care Management Problems:
Update on Endophthalmitis Prevention - Incisions, Antibiotics

Stephen D. McLeod, MD
PAPER WITH Osma, Ivan:
Accommodating and Multifocal IOL Technology for Presbyopia: Principles, Performance, and Promise (Senior Instructor)
Applying Current Outcomes Research to Clinical Practice: Outcomes in Accommodation Research

Joan M. O'Brien, MD
Retinoblastoma 2004

Stuart Seiff, MD
Endoscopic Forehead and Eyebrow Elevation (course director)
Fundamental Facelifting Techniques in Aesthetic

Oculoplastic Surgery (instructor)
Workshop in Fundamental Facelifting Techniques in Aesthetic Oculoplastic Surgery (instructor)

Daniel M. Schwartz, MD
New and Emerging Technologies in Cataract and Refractive Surgery (instructor)

Robert L. Stamper, MD
Breakfast With the Experts: Management of the Failing Filter (moderator)
Point-Counterpoint in Glaucoma: The Experts Debate

John A. Stanley, MD
Small-Incision No-Stitch Non-Phaco Cataract Surgery: Phacofracture—Back to the Future (instructor)

Clinical Faculty Presentations included:

David F. Chang, MD
Conquering Capsule Complications: A Video Primer (senior instructor)

The Lord of the Phaco: Cataract Surgery with Microincision, Thin IOLs, and Bimanual Technique (instructor)
Spotlight on Cataracts 2004: Cataract Controversies (Chair)

Haptic Design: One Piece vs Three Piece
Clinical Decisions in the Management of Complications of Cataract and IOL Surgery (instructor)

Accommodating and Multifocal IOL Technology for Presbyopia: Principles, Performance, and Promise (instructor)

Learning Phaco Chop: Pearls and Pitfalls (senior instructor)
Micro-Incision Cataract Surgery (instructor)

Phaco Surgery and the Chamber of Secrets (instructor)
Advanced Course for the Phacoemulsification and Implant Surgeon (instructor)

H. Dunbar Hoskins, Jr., MD, FACS
AAO Executive Vice-President's Address

Refractive Surgery: Where Have We Been and Where Are We Now? A Symposium
Honoring the Memory of Jose Barraquer MD, and the Contributions of Steve Trokel MD and Jan Worst MD to the Development of Refractive Surgery: Introductory Remarks
Program Directors' Forum: Introduction (AAO Leadership)

Koret Vision Institute – Beckman Vision Center

A facility of the UCSF Department of Ophthalmology

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Department of Ophthalmology

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VISIONS

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