



VISIONS

Koret Vision Institute + Beckman Vision Center + Department of Ophthalmology

Annual Report Issue Fall 2005

University of California San Francisco + That Man May See

Focal Point



Dear Friends,
Our fall issue
of **Visions**
and our
**Annual
Report** are

dedicated to international ophthalmology. The World Health Organization (WHO) estimates that more than 42 million people in the world are currently blind. The longer we live, the greater the chance of becoming victims of cataracts. The longer we live, the greater our chance of encountering macular degeneration. For people in developing nations, the risk of blindness is even greater. And yet, technological advancements and bright minds make it possible to imagine a world without blindness.

We celebrate the involvement of our UCSF ophthalmologists with global health initiatives. You will find stories here on the work of our faculty in Africa, India, China, Vietnam, Latin America, and Monterrey, Mexico. Closer to home, our ground-breaking American Chinese Eye Study benefits the residents of Chinatown with research and treatment that will resonate around the world.

Our work is possible because of your support through That Man May See. Thank you for inspiring us with your contributions to research, service, and patient care.

Sincerely,



Craig Hoyt, MD
Jean Kelly Stock
Distinguished Professor
Chairman
UCSF Department of
Ophthalmology



Envision the Future

Hope for World Vision

UCSF Ophthalmology's Global Programs

"We are committed to international ophthalmology because we recognize that we can have tremendous impact in the developing world, where 90% of all blindness occurs," says Senior Vice Chair of Ophthalmology, Associate Professor Stephen McLeod, MD.

With research and training that provides new treatments for

blinding eye disease, and sets standards for ophthalmic practice throughout the world, the influence of UCSF Ophthalmology and the Francis I. Proctor Foundation for Research in Ophthalmology extends around the globe.

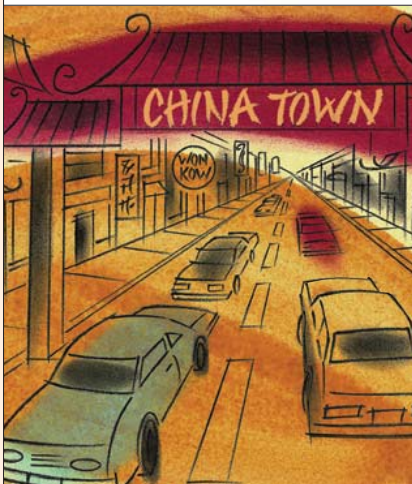
International Collaboration
"We collaborate with local leaders and eye professionals

around the world, so that they can define local needs and make self-sustaining changes," says John Whitcher, MD, MPH, Professor of Ophthalmology, who has been a Proctor Foundation faculty member since 1974. Dr. Whitcher has led major research studies in cataract prevention in India, and corneal ulcer prevention in Nepal, India, Bhutan, and

Burma. He has also worked with Associate Professor Tom Lietman, MD, on the infectious eye disease, trachoma, in Nepal and Ethiopia.

In 1991, Dr. Whitcher and colleagues at UCSF formed one of the first research teams to collaborate with Aravind Eye

Continued on page 2



Ophthalmology Insight Saving Vision in Chinatown

American Chinese Eye Study & Care

Led by Dr. Shan Lin

"Our goal is to determine the major causes of blindness in the Chinese-American community," says glaucoma specialist, Assistant Professor Shan Lin, MD, who takes the UCSF Eye Mobile and a group of health professionals to San Francisco's Chinatown on weekends, for the American Chinese Eye Study.

Working with Chinatown leaders and volunteers, Dr. Lin brings the

Eye Mobile to Chinatown apartment buildings, where they provide free eye exams and specialized tests, and gather information about their patients' history of eye disease. The exams form the basis of a population-based study in Chinatown, designed to determine the rate of glaucoma, cataract and other eye diseases in the Chinese-American community.

Continued on page 2

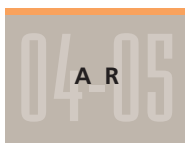
A PEEK INSIDE:

5

Hearst
Fellows
Improve
Eye Care



Research Profile:
Unlocking
Biological Secrets



Annual Report

7



Faculty Profile:
Discovering
Fresh Ways to
Solve Retinal
Problems



Patients' Point
of View:
Theophilus
Brown &
Paul Wanner

12



Hope for World Vision

Continued from page 1

Hospital in South India. Our faculty works closely with M. Srinivasan, MD, Director of Aravind, now the world's largest eye hospital, to conduct eye studies and help develop research infrastructure.

Cornea Studies

Our corneal ulcer studies have led to new guidelines for corneal ulcer treatment throughout Southeast Asia. "The corneal ulcer studies we started in Nepal with Dr. Madan Upadhyay in 1985, and continued in India with Dr. Srinivasan in 1991, show that more than 90% of blinding ulcers can be prevented by diagnosis of corneal abrasions and simple antibiotic treatment by village health workers," says Dr. Whitcher. "These findings were confirmed by our studies,

supported by the World Health Organization (WHO), in Bhutan and Burma."

The recent SCUT (Steroids for Corneal Ulcer Treatment) Study conducted in India by Dr. Lietman with the assistance of Drs. Whitcher, McLeod, Srinivasan, Gilbert Smolin, and others, seeks to determine whether steroids with antibiotic treatment improve the final visual outcome for resistant bacterial corneal ulcers.

Research Overseas

Once the second leading cause of blindness in the world, trachoma is now the sixth major cause, and it may soon be eliminated. "Our studies indicate that we could eradicate trachoma in the next 20 years, using community-wide treatment with the simple antibiotic, azithromycin," says Dr. Lietman, who is Director

of the WHO Collaborating Center at the Proctor Foundation. In 1947, Proctor faculty conducted the first U.S. trachoma studies, and in the early 1970s, Professor-Emeritus Chandler Dawson, MD, initiated trachoma research in Tunisia and Egypt.

Our current trachoma clinical trials in Ethiopia, Nepal, and Egypt are part of a WHO eradication effort, using mathematical models to design treatment strategies. Dr. Lietman, Dr. Whitcher, Assistant Clinical Professor Bruce Gaynor, MD, of Santa Rosa, and their collaborators at ORBIS have treated and monitored 100,000 children in 40 villages. New studies are evaluating the genetic prevalence of trachoma and treatment alternatives.

Cataract Studies

Cataracts are the number one cause of blindness in the developing world. In a recent long-term study we evaluated the effect of antioxidants on cataracts in rural India. Dr. Whitcher, Dr. Lietman, and Proctor Foundation associates, including principal investigator and clinical faculty member David Gritz, MD, of Kaiser, Oakland, examined 800 patients annually for five years. "Although the results were unequivocally negative, we learned a great deal about the epidemiology of eye diseases in this defined population, and we established a model for future clinical research in village populations where most blindness occurs," reports Dr. Whitcher.

Dr. Whitcher and Assistant Professor Erich Strauss, MD, are principal ophthalmic

consultants on the SICCA (Sjögren's International Collaborative Clinical Alliance) Study based at UCSF, which coordinates the investigation of the Sjögren's Syndrome autoimmune disorder at collaborating centers in China, Japan, Denmark and Argentina. The study will create an international Sjögren's registry, for future study. Phase I is funded by NIH for five years.

Training International Practitioners

"Training the world's future leaders in health care, we offer research and clinical fellowships and observerships at UCSF," says Professor Todd Margolis, MD, PhD, Director of the Proctor Foundation. "These researchers make significant contributions to ophthalmology at UCSF, and bring new skills and techniques back to their

Matching Challenge Supports Glaucoma Research

R. Jean & James D. Taylor Foundation

The R. Jean & James D. Taylor Foundation has made a challenge gift of \$50,000 to fund the clinical and laboratory research of pioneering glaucoma investigator, Shan Lin, MD. Our success depends upon your support.

The accompanying Visions article (*Saving Vision in Chinatown*) describes Dr. Lin's population-based eye study, the results of which will have an impact around the world. Jean and Jim Taylor hope this support will create awareness of the need for glaucoma research and the value of Dr. Lin's study. They hope to see their gift equally matched by January 2006.

Glaucoma is recognized as the leading cause of irreversible blindness. It affects over 3 million people in the U.S. alone, and nearly 70 million worldwide. Because it usually does not cause pain or central vision loss until the advanced stages, glaucoma is called the "silent" blinding disease.

Please help us reach our goal by sending your check to That Man May See, Shan Lin Glaucoma Research, 10 Koret Way, San Francisco, CA 94143, or call Kathleen Rydar, President of That Man May See, 415-476-4016 for further information about this matching challenge and the scope of Dr. Lin's research.

Thank you for helping achieve this support! ●

Saving Vision in Chinatown

Continued from page 1

"This is a population that has not been studied well, although it is the third-largest ethnic population group and one of the fastest-growing populations in the U.S.," says Dr. Lin. "Fifteen years ago, the Baltimore Eye Study discovered that the incidence of glaucoma in African-American patients was four times the rate for Caucasians. In Los Angeles, the Latino Eye Study found high rates of glaucoma among Hispanics. With the Eye Mobile, funded largely by the Congressional Glaucoma Caucus and That Man May See, Dr. Lin has been able to conduct a pilot study in the Chinese-American community of Chinatown.

Specialized Testing

"Our preliminary data indicate that cataracts are a major cause of blindness in Chinatown. Cultural barriers and poor access to health care may contribute to foregoing of the necessary cataract surgery," Dr. Lin notes.

"Studies from Singapore indicate that glaucoma may be the leading cause of blindness in the Chinese population. But we do not yet know if regional differences or environmental factors play significant roles in closed-angle glaucoma," says Dr. Lin. High-risk patients are





own countries.” (See *Hearst Fellows* on page 5.)

Developing a nationwide plan in Vietnam to prevent Retinopathy of Prematurity (ROP), an emerging cause of childhood blindness in developing countries, Director of Pediatric Ophthalmology, Associate Professor Doug Fredrick, MD, works closely with Vietnamese medical professionals. Small groups of physicians from Vietnam come to UCSF for two months each year, training with Dr. Fredrick and UCSF neonatologist Colin Partridge, MD. Dr. Fredrick also travels to Vietnam, Burma and Trinidad, to teach advanced surgical techniques. These programs are sponsored by the nonprofit ORBIS.

International Standards

“We live in a global community, and most of us

think globally, says Professor Richard Abbott, MD, an esteemed corneal surgeon, explaining why so many at UCSF develop programs beyond our borders.

Dr. Abbott is President-Elect of the Pan American Association of Ophthalmology, with members from 27 North and South American nations. “More than 60% of our faculty will attend the World Ophthalmology Congress in Brazil,” says Dr. Abbott. “Co-sponsored by the Pan American Association and the International Council of Ophthalmology (ICO), this will be a unique exchange.” Dr. Abbott is also President of the Pan American Ophthalmological Foundation, supporting research and education in the Americas.

From left to right: Dr. John Whitcher; Dr. Whitcher in India; Dr. Tom Lietman; Dr. Lietman in India; Dr. Richard Abbott (right, with Professor Jialiang Zhao, President, Chinese Ophthalmological Association) in China; Dr. Stephen McLeod in India.

In China, Dr. Abbott directs a pilot project to establish ophthalmic treatment guidelines in a developing nation, as Chair of the ICO Clinical Guidelines Committee. He works with the Chinese Ministry of Health, ICO, NEI, and WHO. Professionals throughout China have reviewed the new treatment guidelines, which will set eye care standards for all physicians in China.

“Our research and training programs, and the work of our faculty, have changed the outlook in science and health internationally,” says Dr. Margolis. ●

Thanks to our generous donors to these international programs:

The Bernard Osher Foundation, which has provided essential leverage to secure National Institutes of Health funding; That Man May See; ORBIS International; The Carter Center; International Trachoma Initiative; the South Asia Research Fund; The Bodri Foundation; Research to Prevent Blindness; World Health Organization; the National Institutes of Health and the National Eye Institute.



Dr. Shan Lin

brought in to UCSF for additional testing with a specialized Ultrasound Biomicroscope (UBM).

“If we discover that closed-angle glaucoma is a major cause of blindness, it can usually be treated by a simple laser procedure,” Dr. Lin explains. “These study results could lead ophthalmologists to use additional tests more frequently, to look for this type of glaucoma in Chinese patients.”

The examining physician provides each Chinatown patient with

information about his or her eye diseases, and doctors and clinics for follow-up. Patients with active eye disease are also called to see if they have seen a clinician.

Community Volunteers

Felix Chu of the Chinatown Lion’s Club is one of the Chinatown leaders who has made this study and treatment program possible. The Eye Mobile is supervised by Stuart Seiff, MD, Director of Ophthalmology at San Francisco General Hospital, and the Eye Study is coordinated by May Lin.

High school students and volunteers from the Chinatown community are joined by UCSF Ophthalmology staff, residents and faculty who volunteer for the project, including David Hwang, MD, Jennifer Diehn, MD, Scott Lee, MD, Diamond Tam, MD, Julie Chen, MD, Gloria Wang, MD, and Selena Lee, OD.

Over 200 people have been screened in the initial phase of this study, which began in

November 2004. Dr. Lin anticipates that the target of 300-500 patients for the pilot study should be met in 2006.

Broader Study Planned

“This is a pilot study of selected apartment buildings,” says Dr. Lin. Ultimately he would like to reach all the people 40 years and older in Chinatown community.

“When we apply for NIH funding, we plan to compare Chinese-Americans in Chinatown and those in the middle-income Sunset District, to determine if one group has less preventable eye disease,” he says.

An interdisciplinary group studying disease in the Chinese populations is now meeting to discuss an Asian Studies Center at UCSF, including Dr. Lin, and Professor of Neurology, David Bonovich, MD, in collaboration with the Chinese community of San Francisco and Hong Kong. They would coordinate studies of eye disease, stroke, and Alzheimer’s disease—conditions that may be more prevalent in the Chinese community. ●

Thanks to our generous donors:

The American Chinese Eye Study is supported by funds from the Congressional Glaucoma Caucus, the Theodore and Doris Lee Foundation, Santen Pharmaceuticals, and That Man May See. Dr. Lin’s work is also supported by the R. Jean & James D. Taylor Foundation (see *Matching Challenge*, page 2).

Building Bridges Internationally

Ophthalmology Faculty & Alumni Restore Sight Abroad



In developing countries, where eye care is limited, UCSF faculty and alumni work with local partners to expand eye care capabilities and provide advanced skills and training.

"We are very proud of our faculty and alumni who lecture extensively overseas and help develop educational curricula.

Many also demonstrate clinical and surgical techniques, and provide medical care to patients throughout the world," says Senior Vice Chair of Ophthalmology, Associate Professor Stephen McLeod, MD. (Also see *Faculty News* on page 14.) Examples of UCSF faculty making a difference internationally include:

Department Chair, **Creig Hoyt, MD**, Professor of Ophthalmology, is the first American editor of the internationally oriented *British Journal of Ophthalmology*. Retina specialist, **Robert Bhisitkul, MD, PhD**, Assistant Professor of Ophthalmology, is Web Editor for the *British Journal*.

UCSF Clinical Professors **Marc Lieberman, MD**, and **Melvyn D. Bert, MD, FACS**, spend two months each year training Tibetan surgeons to restore sight to impoverished Tibetans blinded by cataracts on the 'roof of the world.' The goal of the Tibet Vision Project is to eliminate preventable blindness throughout Tibet, with local resources only, by the year 2020. Dr. Lieberman founded the Tibet Vision Project in 1995, and is Director of Rural Eye Programs; Dr. Bert is Director of the Lhasa Eye Program. They have trained 20 Tibetan ophthalmologists in modern eye surgery, who have done over 2000 cataract surgeries with lens implants free of charge. A documentary about their work, *Visioning Tibet*, is slated for national PBS broadcast in 2006. A Cordes Alumnus (1980), Dr. Lieberman is a glaucoma specialist with offices in northern California; Dr. Bert is a San Francisco ophthalmologist.

www.tibetvisionproject.org

William Good, MD, World View Editor for the *British Journal of Ophthalmology*, is a volunteer clinician/surgeon at the Tilganga Eye Centre in Kathmandu, Nepal, a country where nearly 70% of blindness is due to cataracts. Tilganga has no pediatric specialist, and Dr. Good has treated children with a wide range of eye problems. He has also worked as a volunteer at the Regional Institute for Ophthalmology in Chennai, India, with the support of ORBIS International. A Cordes Alumnus (1985-88) and former UCSF faculty member, Dr. Good is Pediatric Ophthalmology Clinician-Researcher at Smith-Kettlewell in San Francisco.

Research scientist, **Jennifer LaVail, PhD**, Professor of Anatomy and Ophthalmology, is an advisor to the Neuroscience Program at the Universidad Autónoma de Nuevo León in Monterrey, Mexico, south of the Texas border. Working with a team from UCSF, Harvard and NIH, she consults with the school in establishing the neurovirology division of their new Biomedical Center for Translational Medicine, advising on courses, syllabus and admissions. She also lectures and leads Grand Rounds at the school.

Glaucoma specialist **Jorge Alvarado, MD**, Professor of Ophthalmology and Physiology, has taught glaucoma surgical and diagnostic techniques, and consults on glaucoma curriculum in Argentina, Columbia, Brazil, Uruguay, Costa Rica, Mexico and Venezuela. He has provided surgery to children suffering from congenital glaucoma throughout Central and Latin America.

Director of Ophthalmic Clinical Pharmacology at the VA Hospital, Professor **Allan Flach, MD, PharmD**, has taught residents and medical students in Lima, Peru, and Pretoria, South Africa, and directed pharmacological research in Pretoria. He led U.S. ophthalmologists on an interactive 6-week pharmacology continuing education program in China. ●



Proctor Perspective International Vision Center

Preventing Blindness in the
Developing World

This fall, the International Vision Center opens new offices at the Proctor Foundation, to support investigators who have dedicated their careers to preventing blindness in the developing world.

Spearheaded by Professor John Whitcher, MD, MPH, Associate Professor Tom Lietman, MD, and colleagues from UCSF Ophthalmology and the Proctor Foundation, the Center will coordinate the faculty's diverse research on prevention of blindness in the developing world. This Center will be one of three international eye research centers worldwide, including the Dana Center at Johns Hopkins University, and the Institute for Tropical Medicine and Hygiene at Moorefields Eye Hospital in London.

"In developing countries, adults and children have preventable and curable eye diseases that often lead to blindness, if left untreated," says Dr. Whitcher. "Our research is aimed at preserving their sight today, and for generations to come.

"The International Vision Center will make it possible to expand and coordinate vision research that could have a tremendous impact throughout the world." ●

The UCSF – Japan Connection

Dr. Shigeaki Ohno Now Heads UCSF – Japan Eye Society
Former Proctor Fellow

This interview is part of the ongoing Cordes Connection, which features UCSF Ophthalmology alumni.

When he was a young physician in Sapporo, Hokkaido, Japan, in 1972, Shigeaki Ohno, MD, was inspired to study at UCSF after a special lecture by the Ophthalmology Department Chair, the late Michael J. Hogan, MD, at the Japanese Ophthalmological Society. In 1974, he came to UCSF as a Hearst Fellow to study ocular immunology, microbiology and uveitis. He returned to UCSF in 1982, as a Japanese Government Postdoctoral Fellow at the Proctor Foundation.

Today, Dr. Ohno is an important academic and ophthalmic researcher in Japan, and he maintains his UCSF connection as President of the UCSF-Japan Eye Society in Japan. He is Chair of the Department of Ophthalmology

and Visual Sciences at Hokkaido University Graduate School of Medicine; Vice President and Head of the Department of Ophthalmology at Hokkaido University Hospital; and Executive Director of Eye Ambitious, Inc., in Japan.

Learning from World Experts
"Studying at UCSF, I was exposed to many new ideas and a broad perspective on developments in ophthalmology throughout the world," Dr. Ohno recalls. "I was very lucky to study with world-famous authorities in ophthalmology, who taught me the importance of basic scientific investigation, daily practice, and careful observation of my patients."

One of Dr. Ohno's mentors at UCSF was the late Samuel Kimura, MD, who was world-

renowned for research and clinical care of inflammatory diseases of the eye. "Dr. Kimura was a great teacher of clinical ophthalmology," he recalls, "and he was also a great teacher of fishing."

Dr. Ohno's teachers included Professor-Emeritus, neuro-ophthalmologist William Hoyt, MD; Professor-Emeritus, uveitis specialist G. Richard O'Connor, MD; and ophthalmic infectious disease specialists, Gilbert Smolin, MD, Robert Nozik, MD, and John P. Whitcher, MD, MPH.

Continuing to pursue molecular genetic epidemiological studies, this October Dr. Ohno will host the 4th International Conference on Ocular Infections at Hokkaido University. His

recent studies are the first to show that uveitis occurs in patients who are genetically susceptible.

Left His Heart in San Francisco
Dr. Ohno delivered an invited lecture at UCSF Ophthalmology Grand Rounds in 1998, as the Samuel Kimura Visiting Professor. At the Cordes Society's 1985 scientific meeting, Dr. Ohno delivered the keynote Hearst Lecture.

He also brought down the house with a rendition of "I Left My Heart in San Francisco."

"We have many brilliant ophthalmologists and academics in Japan who studied ophthalmology at UCSF," says Dr. Ohno. "I am pleased that my former fellow, Ms. Yumi Imai, DVM, PhD, is currently a Proctor Fellow, studying with Dr. Todd Margolis. At UCSF,

you can learn everything about ophthalmic science without going around the world."

Generous Funding for Japan – UCSF Eye Society
Dr. Sam Kimura and Dr. Michael Hogan founded That Man May See, Inc. in 1971 to provide a new source of funding for a comprehensive vision center at UCSF.

Dr. Kimura's widow, Pearl Kimura, has worked vigorously to support the goals of TMMS. Last year she helped launch the Pacific Rim Center for Vision. She has also supported the UCSF-Japan Eye Society Fund and the Kimura Lecture Series, as well as an endowment, a laboratory, the Samuel J. Kimura Ophthalmology Chair, designated for promising young scientists, and the Kimura Ocular Immunology Laboratory at the Proctor Foundation. ●



Hearst Fellows Improve Eye Care

In 27 Locations Around The World

Ajay Singh, MD, arrived at UCSF early this year from Amritsar, India, as the current recipient of the prestigious Hearst Fellowship in International Ophthalmology. The fellowship provides valuable advanced training for promising young ophthalmologists from abroad.

Dr. Singh's father, Rajbir Singh, MD, was also a Hearst Fellow at UCSF, in 1978. In the US for one year, the young Dr. Singh and his wife, Mandira, recently gave birth to their baby daughter, Jiya, providing potential to extend the legacy even further.

Generous Hearst Gift Established International Program

Hearst Fellowships began in the mid 1960s with a gift from George and Rosalie Hearst, inspired by the couple's friend and personal physician, Kenneth A. Grow, MD. The William Randolph Hearst Foundation continued to provide annual support and established an endowment to ensure the continuation of Hearst Fellows in perpetuity.

Now, 27 locations throughout the world link to UCSF Ophthalmology through Hearst Fellows, who complete specialty training, and return to their countries to make a difference in research and patient care. UCSF Hearst Fellows have hailed from China, Finland, Brazil, Switzerland, Japan, Australia, India, Mexico, Argentina, New Zealand, Germany, Italy, Spain, Chile, Peru, and Venezuela.

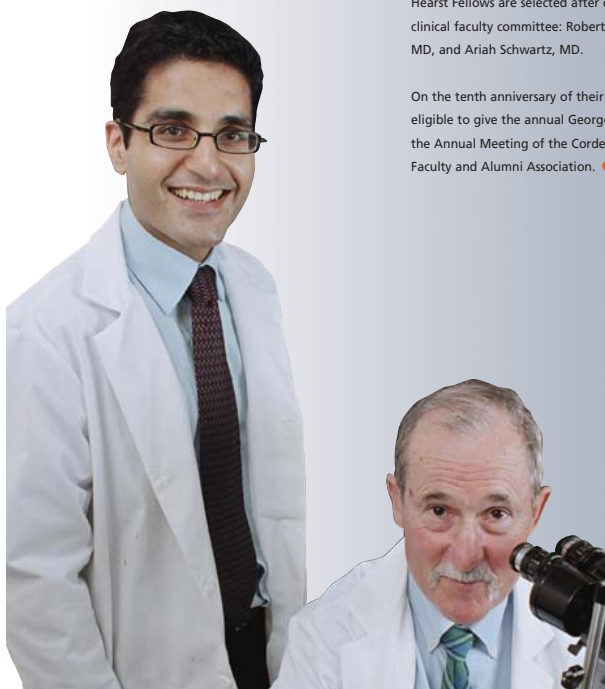
Singh Family in Medicine – Also a Legacy

In addition to its Hearst legacy, the Singh family has a long association with vision care. In 1939, Ajay's great-grandfather, Sohan Singh, MD, an eminent eye surgeon and professor at the Amritsar Medical College, treated thousands of patients free of charge at a rural eye service. The Singh ophthalmologists—grandfather Ranbir, and his father, Rajbir—continue this tradition. The Singh family also runs an advanced retinal hospital, where surgeons from all over India are trained in retinal disease.

Selective Fellowships

Hearst Fellows are selected after careful review by a senior clinical faculty committee: Robert N. Shaffer, MD, Stacy Mettler, MD, and Arian Schwartz, MD.

On the tenth anniversary of their fellowship, Hearst Fellows are eligible to give the annual George and Rosalie Hearst Lecture at the Annual Meeting of the Cordes Society, which is the UCSF Faculty and Alumni Association. ●



Dr. Ajay Singh (left) with his mentor, Dr. Alex Irvine

Bringing New Perspectives Home

Stories of Some Former Hearst Fellows

Daniel Pereira, MD, the 2004 Hearst Fellow, is from Goiana, Brazil, where he trains residents and fellows at Santa Casa de Sao Paulo. "The exposure to research through the Hearst Fellowship changed my thinking about the physiopathology of disease, and allows me to treat patients in new and different ways," he says. His mentors at UCSF were Robert Bhisitkul, MD, PhD, and Daniel Schwartz, MD.

Former Hearst Fellow, **Marita Uusitalo, MD**, was mentored in 1999 by Joan M. O'Brien, MD. She returned to Helsinki University Central Hospital, where she is Chief of Oculoplastics. She continues to do collaborative research with Dr. O'Brien in retinoblastoma, a childhood eye tumor. "The time I spent at UCSF was extremely useful and important, and I continue to draw from lessons learned there."

Fabian Lerner, MD, developed new expertise in glaucoma treatment under the mentorship of Jorge Alvarado, MD, and David Hwang, MD. Dr. Lerner, a 1990 Hearst Fellow, returned to Buenos Aires to focus his practice on glaucoma. "The Hearst Fellowship provided a superb professional and human environment. I continue to share this experience with colleagues and fellows in Argentina," he says. Dr. Lerner recently established a foundation to assist people with glaucoma.

Across the globe in Japan, **Shiroaki Shirato, MD, PhD**, has opened a specialty eye clinic in central Tokyo. Dr. Shirato was a Hearst Fellow in 1986, guided by Jorge Alvarado, MD. In 1994, he became Vice Chair of Ophthalmology at the University of Tokyo; in 1999, he was named Professor and Director of Ophthalmology at Tokyo Medical University. Today, he is Clinical Professor at Tokyo Medical University and Tokyo Medical-Dental University. Dr. Shirato feels his UCSF training at was invaluable, and continues to collaborate with Dr. Alvarado.

Antti Vannas, MD, arrived from Helsinki, Finland in 1973. He has been Head Ophthalmologist for the Finnish Armed Forces since 1985. UCSF ophthalmic pioneers Michael Hogan, MD, and Samuel Kimura, MD, had a special influence, giving him access to new avenues in ophthalmic surgery. He learned vitreous surgery with Alexander Irvine, MD, at UCSF, just as it was being introduced in Finland. Dr. Vannas does ophthalmic research in Finland and at the University of South Wales in Australia. ●

Velasco Family Supports Exchange with Philippines

As part of the Pacific Rim Center for Vision, UCSF Ophthalmology is building bridges of medical exchange with the Philippines. Thanks to the generosity of the Geronimo Velasco family, Velasco Fellows will come to UCSF for specialized clinical training and research, and UCSF faculty will travel to the Philippines to share expertise and to learn more about needs in that country.

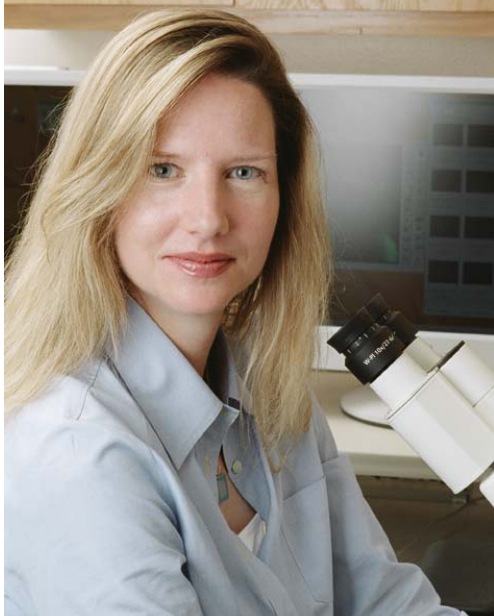
The program is designed to advance ophthalmic medicine in both countries – and to demonstrate partnership results that can have global impact. Fellows will be recruited from the Philippines for training as basic or clinical researchers or clinicians, and will return to the Philippines and other parts of Asia to set up research laboratories.

"This type of exchange is critical," says Professor Robert Stamper, MD, Director of the UCSF Glaucoma Service. "Reciprocal learning, academic interchange, and collaborative teaching add to the vitality of the Department, and to the individual lives that are changed. The result is better care for patients, and better teachers and role models to elevate the diagnosis and practice of eye disease.

"As a glaucoma specialist," continues Dr. Stamper, "I view this exchange as an important bridge to enhance research, education, and treatment of glaucoma and other eye problems in the Philippines, and nurturing a collaborative partnership between the U.S., the Philippines, and greater Asia."

"On a personal note," says Dr. Stamper, "the generosity of the Velasco family demonstrates a legacy of concern and care for the people of the Philippines, and for all who suffer from glaucoma." ●





Dr. Hilary Beggs

factors controlling brain development with investigator Louis Reichardt, PhD, at the UCSF Howard Hughes Medical Institute.

In her current studies, Dr. Beggs is investigating the underlying causes for microphthalmia (small eye syndrome), retinal dysplasia/degeneration, and congenital cataracts. "All three of these ocular disorders are found in children with Congenital Muscular Dystrophy," she says. "Exploring the unknown link between them may help explain why they occur in the first place."

Mechanisms of Eye Disease

The ways in which cells respond to their microenvironment is a crucial factor in visual system development. "Any miscommunication or disconnect between cells and their surroundings can result in disease," Dr. Beggs explains. "If you imagine cell signaling as a game of 'telephone,' then we are interested in identifying where the signal goes awry."

Dr. Beggs' lab is investigating a major signaling relay station in the cell, called FAK (focal adhesion kinase). FAK is critically involved in transforming instructions from the outside of a cell into appropriate responses, such as

whether to move or stop, or to survive or die. Disrupting this activity brings about severe pathological consequences and produces developmental defects that resemble severe congenital eye and brain disorders.

By carefully analyzing the pathways activated by FAK and related enzymes, Dr. Beggs hopes to uncover new cellular mechanisms of eye development and disease, that could well lead her to new therapeutic targets. "If we can understand how FAK is uniquely regulated in specific cells, we might learn how to correct some of these blinding disorders."

Love of Basic Science

Hilary Beggs grew up in a medical family in Princeton, New Jersey. Her father was a widely respected neurosurgeon, and her mother began her career as an inorganic chemist. Naturally, science was always encouraged, and often discussed around the dining room table. Starting as an English major at Washington and Lee University in Virginia, she found herself drawn increasingly toward the laboratory. Eventually she graduated cum laude with a BS in Biology, and went on to earn a PhD in Neurobiology at the University of North Carolina in Chapel Hill.

UCSF is a hotbed of neuroscience research, with great strength in basic science,

Dr. Beggs believes, adding that basic scientific research requires long-term understanding. "With these resources in developmental biology, biochemistry, neuroscience and imaging, we can 'knock out' specific genes and cell types with temporal and spatial control we never thought was possible, to study the activities that make cells go 'haywire,' and consider how to repair them."

Dr. Beggs' research is supported by an award from That Man May See to collect data that could support a larger NIH grant in the coming year. She has also received a Career Development Award from Research to Prevent Blindness (see story on page 13), and a Knights Templar Eye Foundation Award for research in pediatric ophthalmology, as well as receiving support from the Sandler Family Supporting Foundation to establish her new laboratory.

Bay Area Living

Dr. Beggs and her husband, novelist Tom Barbash, live in Mill Valley. Barbash's first novel, *The Last Good Chance*, won the California Book Award, and his nonfiction book, *On Top of the World*, was a *New York Times* Bestseller. ●

Unlocking Biological Secrets

Dr. Hilary Beggs Investigates Molecular Mechanisms of Eye Disease

"What excites me most in my work is the chance to unlock a biological mystery," says research scientist Hilary Beggs, PhD, Assistant Professor of Ophthalmology and Physiology. "If we can understand how the eye develops normally, then we'll be one step closer to figuring out what goes wrong in disease states." The research Dr. Beggs is conducting here at UCSF

may lead to new treatments for blinding eye disorders, especially those of children.

A distinguished neurobiologist, Dr. Beggs has established an impressive array of collaborations with top research teams at UCSF and around the world to study defects in cellular signaling pathways. As a postdoctoral fellow, she worked on understanding

Dr. Jonathan C. Horton Wins Alcon Award

UCSF Ophthalmologist and Neuroscientist, Professor Jonathan C. Horton, MD, PhD, has been named a 2005 Alcon Research Institute award recipient. Founded in 1982, the Alcon Research Institute bestows prizes each year upon a handful of vision scientists. "The Alcon Award is one of the most prestigious international awards in ophthalmic research," says Senior Vice Chair of Ophthalmology, Associate Professor Stephen McLeod, MD. "The Alcon Award is a prize for which one cannot apply," he explains. "The Alcon Research Institute makes its selection based on the quality and significance of one's work."

"Dr. Horton is one of the nation's top neuro-ophthalmologists, dedicated to curing neurovisual disorders and finding out how visual perception occurs in the human brain," says Dr. McLeod. His research focuses on amblyopia ("lazy eye") and strabismus ("crossed eyes") and seeks to uncover pathways vital for normal perception.

"What is most gratifying, and so like Dr. Horton," continues Dr. McLeod, "is that he has directed the prize to That Man May See to support eye research at UCSF." Dr. Horton and his team of committed researchers conduct their studies in the state-of-the-art Laboratory for Visual Neuroscience at UCSF, completed in 2002 with generous support from friends of That Man May See. Basic scientific research is the key to UCSF Ophthalmology's mission to find new treatments and cures for blinding eye diseases. ●



Drs. Sretavan & Chang in Seoul, Korea

Microtechnology-Assisted Nerve Repair

With a report on a novel method of nerve repair at the cellular level, "Microdevice Components for a Cellular Microsurgery Suite," Professor David Sretavan, MD, PhD, and Post-Doctoral Fellow Wesley Chang, PhD, were invited to describe their work at the world's leading conference devoted to the advancement of microsystem technologies, in Seoul, Korea. For the first time, a conference track at the International Conference on Solid State Sensors, Actuators and Microsystems was

devoted to biomedical applications. Following their conference presentation, Drs. Sretavan and Chang were invited to publish their research in a scientific journal dedicated to microsystem technologies.

Recognized as an expert in developmental neuroscience, Dr. Sretavan is investigating the intersection of biology and micro/nanotechnology to develop new surgical tools. Dr. Chang is a Postdoctoral Fellow at UCSF Ophthalmology and a graduate of the UC Berkeley School of Engineering, working with Dr. Sretavan to develop new microtools for nerve repair. ●



Dr. David Sretavan

Dear Friends of That Man May See,



This Annual Report 2004 – 2005 demonstrates a vibrant year that sets the stage for even greater accomplishment ahead. The vision of That Man May See parallels the growth and continuing pursuit of excellence of UCSF's Department of Ophthalmology.

We are building an international community of individuals, foundations, and companies whose support can reduce the burden of blindness and cure eye disease through research, teaching, and patient care. We seek financial support for faculty research and collaborative projects with other departments and with other researchers beyond UCSF.

You – our contributors – are the greatest hope for expanding resources of the department to extend its leadership position. Breakthroughs in research bring about results for vision care unheard of only a few years ago. And, these innovative projects require support commensurate with the quality of the ideas.

Opportunities for partnership will increase as the department continues to attract the brightest and the best new faculty. We also want to reward with distinction those faculty members who make this university great.

Thanks to you, support for That Man May See is increasing. We generated over \$10 million, including bequests, for the UCSF Department of Ophthalmology this past fiscal year. The \$500,000 challenge made by Mr. Bernie Newcomb to launch the Chairman's Forum was fully met. And, we were able to provide over \$1 million directly to our faculty for immediate research projects. With these seed funds, the department leveraged our private support to attract funds from government sources. This year, \$3,170,784 from agencies such as the National Institutes of Health and the National Eye Institute was provided in revenues.

Bequests continue to play a large role in our achievement, and we invite you to consider That Man May See in your estate plans while you continue to support us during your lifetime. We hope you enjoy this year's Annual Report of progress. Please join us in celebration of the difference we make when we work together.

Sincerely,

Stephen S. Smith

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provide a complete and
accurate listing of donors and
gifts. Please accept our sincere
apologies if any mistake or
omission has been made.

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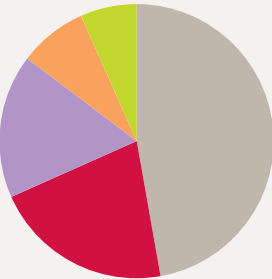
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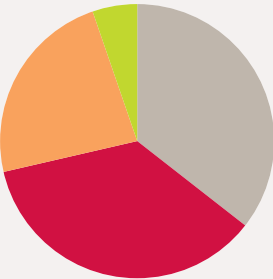
UCSF Department of Ophthalmology Source of Funds



Clinical Revenue	\$7,146,273
National Institutes of Health	\$3,170,784
Private Sources of Funds	\$2,544,024
Endowment Income	\$1,207,596
State Funds	\$996,231
Total	\$15,064,908

■ Clinical Revenue ■ National Institutes of Health ■ Private Sources of Funds
■ Endowment Income ■ State Funds

UCSF Department of Ophthalmology Use of Funds



Faculty/Clinical Fellows	\$4,911,845
Research & Administrative Staff, Supplies & Equipment	\$6,231,223
Practice (clinic) Expenses	\$3,204,387
Institutional Taxes and Fees	\$717,453
Total	\$15,064,908

■ Faculty/Clinical Fellows ■ Research & Administrative Staff, Supplies & Equipment
■ Practice (clinic) Expenses ■ Institutional Taxes and Fees

TMMS – Sources of Private Support

	Received and Influenced by TMMS FY Ending 6/30/05*	Gifts Committed by 6/30/05 to be Received in FY 06	Total
Board Gifts	\$476,539	\$63,000	\$539,539
Individual Gifts	\$818,710	\$10,000	\$828,710
Bequests	\$6,927,945	\$1,570,000	\$8,497,945
Corporations, Foundations, Other	\$527,987	\$550,000	\$1,077,987
Total	\$8,751,181	\$2,193,000	\$10,944,181

*Some gifts are processed through the UCSF Foundation and Board of Regents, primarily as bequests.

Seed Funding for Research

That Man May See Awards to the Department of Ophthalmology: \$1,033,058

July 1, 2004 to June 30, 2005

Select Patient Care and Education Awards

Douglas Fredrick, MD
Jonathan Horton, MD, PhD
Joan O'Brien, MD

Residency Education Fund
Neuroscience Program Seminar Series
Reorganize and Expand Adult Ocular Oncology Unit

Select Research Awards

Jorge Alvarado, MD

Hilary Beggs, PhD

Kimberly Cockerham, MD
David Copenhagen, PhD
David Hwang, MD
David Krizaj, PhD
Matthew LaVail, PhD
Thomas Lietman, MD
Shan Lin, MD
Joan O'Brien, MD
Julie Schnapf, PhD
Daniel Schwartz, MD
Robert Stampert, MD
Erik Ullian, PhD

Role of Gene Expression in the Modulation of Barrier-Permeability in Trabecular Meshwork and Schlemm's Canal Endothelial Cells
Understanding the Genes, Cellular Mechanisms & Signaling Networks Involved in Organization of Ocular Basement Membranes
Orbicularis Reanimation for Cranial Nerve Seven Palsies
Assessing Bipolar Cell Synaptic Function
Equipment and Instrument Purchase
Cellar Basis of Retinal Function and Dysfunction
Electroretinography for Studies on Retinal Degenerative Diseases
Do Children Form a Core Group for the Transmission of Trachoma?
Ultrasound Biomicroscopy Research Support
Development of an International Retinoblastoma Mutation Database
Mechanisms of Photoreceptor Interactions in Retinal Slices
Age-related Macular Degeneration Research Support
The Accumap - Multi-Year Assessment
Glaucoma and Axon Guidance Molecules: Effects of Retinal Ganglion Cell Axonal Transport and Survival



Tackling Macular Degeneration

Devising New Strategies To Prevent Visual Loss
Unique UCSF Conference

“Renowned basic scientists and clinicians from universities throughout the U.S., Britain and Australia will join UCSF faculty in November for a unique scientific conference, focused on preventing visual loss from AMD (Age-Related Macular Degeneration). AMD is the most common cause of vision loss for adults over 60 in the U.S. Showcasing experts in their fields, the program brings together 32 speakers, who are ophthalmologists, biologists, pharmacologists, and venture capitalists, to consider current and future treatments for ‘dry’ (atrophic) AMD, as well as ‘wet’ (neovascular) AMD.

“This should be a strong impetus for developing effective interventions for patients with AMD, long before they have suffered visual loss,” says Program Chair, Daniel M. Schwartz, MD, Associate Professor of Ophthalmology, and Director of the UCSF Retina Service. Dr. Schwartz actively

collaborates with scientists in other fields to solve ophthalmic problems, and is investigating new drug treatments for AMD.

Stuart L. Fine, MD, Chairman of the Department of Ophthalmology, University of Pennsylvania, and Director of the Scheie Eye Institute, has made major contributions to prevent blindness from AMD. He will talk on *Clinical Trials for a Novel AMD Therapeutic*.

John Marshall, PhD, the Frost Professor of Ophthalmology at St Thomas Hospital, London, has concentrated research on the relationship between light and ageing. He will discuss the etiology of AMD.

Shirley Sarks, AM, MD, FRCS, FRANZCO, Honorary Research Associate, Prince of Wales Medical Research Institute, Sydney, Australia, has made major contributions to understanding AMD. She will speak on *Anatomy of Early AMD*.

This groundbreaking program is co-chaired by Marco A. Zarbin, MD, PhD, Professor and Chairman, Ophthalmology and Visual Science, UMD New Jersey Medical School; and Lawrence S. Morse, MD, PhD, Professor of Ophthalmology at UC Davis.

To register, please call (415) 476-5808, or register on line at <http://www.cme.ucsf.edu/cme> and select the course title: *Tackling Early AMD*. For more information please see: <http://ucsfeye.net/decembercourse.shtml> ●

Thanks to the generous donors supporting this important AMD conference:

Allergan, Novartis

Ophthalmics, Genentech,

Eyetech, Alcon and Pfizer.



Patients' Point of View Theophilus Brown & Paul Wonner

Clarity of Vision is a Way of Life

What happens when a visual artist's eyesight begins to fade? Some say Claude Monet's cataracts may have contributed to softness of line, one of the hallmarks of Impressionism. Edgar Degas turned to sculpture when myopic degeneration made it a challenge to paint. Henri Matisse suffered from deteriorating eyesight, and brush painting gave way to the medium of cutouts, or "drawing with scissors," as he called it.

For internationally renowned Bay Area artists, Theophilus Brown and Paul Wonner, clarity of vision is a way of life. "One of the best things is to find out who we are," says Wonner, describing the role of the artist in the world as one who points out meaning and significance.

Both men encountered cataracts at nearly the same time, and both opted for cataract surgery with corneal specialist, Professor David Hwang, MD. "It is a rare privilege to have helped restore eyesight to each of these master artists, so that they may continue to share their unique and creative vision of the world through their compelling artwork," says Dr. Hwang.

"Of all my five senses, vision is the one I value most," comments Brown.

"Losing sight was pretty scary," remembers Wonner, "and I had to ask: 'Can I continue to work?'"

Significant Bay Area Figurative Artists

Brown and Wonner met at Berkeley in 1952 and formed a lasting life partnership. Both began painting at young ages and emerged from art schools to take prominent places among the elites of the Bay Area Figurative movement. Brown's first exhibition at age 11 was a show juried by American realist painter, Grant Wood. Brown had drawn a portrait of his father, an inventor of agricultural implements, who entered the

portrait in an adult art competition. "The young painter who came up to receive his award surprised Wood tremendously," recalls Brown.

Wonner, the first artist in his family, says his father also was supportive of his intention to pursue art as a career, and it was important to his decision. "We all felt like outsiders," says Wonner. "People thought we were strange and kookie to be going to art school. None of us expected to make a living by being artists. We supported each other."

Brown and Wonner have created a world through their art that includes ideas, enduring friendships, and numerous exhibitions. They are collected by private patrons and are represented in major museum collections including the Oakland Museum of California, San Francisco Museum of Modern Art, the Smithsonian Museum of American Art, the Solomon R. Guggenheim Museum and Metropolitan Museum of Art in New York. They still paint daily in their south of Market studios. This summer, Brown and Wonner were featured in a two-person show of their recent work at the Sanchez Art Center in Pacifica.

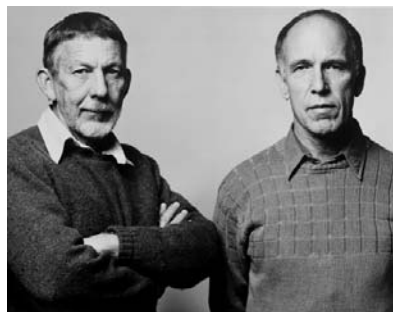
In Appreciation of David Hwang, MD

"Dr. Hwang is a kind of genius," says Brown. "He has such a wonderful way of coming into the office – beaming." Brown describes Dr. Hwang's great sense of humor as important to the process. "The procedure went magnificently in the first eye, and the second came around with a little more time, so I recommended cataract surgery to Paul," he says.

"Most people are not very visual, but for an artist, it's critical," says Wonner. "My vision is so good now, I don't even need glasses to drive," he reports.

Following surgery, Brown revisited some of his earlier paintings and made changes based on his new eyesight. "He does that all the time anyway," chides Wonner. ●

Top to bottom: Self Portrait by Theophilus Brown; photo of Theophilus Brown and Paul Wonner; Untitled Still Life by Paul Wonner.



TMMS Appreciates Recent Gifts

Thank you for your gifts toward fiscal year 2005–2006, received between July 1 and October 3, 2005.

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Staff P R O F I L E

From Vietnam to UCSF

Clinic Administrator Greg Tung
Meets the Challenge

"I make sure that the Clinic of the Ophthalmology Department works well and stays financially healthy," says Greg Tung, Administrative Director and Practice Manager for the Ophthalmology Clinics. "It's my responsibility to be sure that things flow efficiently in the clinics for patients, staff and physicians." His job encompasses everything in the clinics – from supervising front desk staff, technical staff and surgical scheduling, to monitoring billing and revenue.

"All financial indicators are looking good," Greg says, as he compliments the staff on their efficiency, following a reorganization he recommended last year. Now the clinic has three supervisors, including a new technical supervisor who is experienced in running the highly specialized equipment required for ophthalmology. An administrative supervisor facilitates front desk workers and support for the physicians; and a revenue analyst monitors the high-cost scheduling of surgeries, as well as insurance authorizations and billing.

International Living

Trained as a management consultant and evolutionary biologist, Greg worked as a financial analyst with the Department of Ophthalmology, before taking a leave of absence to travel to

Vietnam in 2003. In 2004, he returned to UCSF as Clinic Administrator. He was previously a biologist and Howard Hughes Biology Fellow at UC Berkeley, where he conducted research on mammal populations in Kenya.

Greg and his wife, Kim-Lan Bui, spent a year in Vietnam. There, Greg worked for the Bach Ma National Park near Da Nang as a scientific resource volunteer. He also assisted with community development efforts, including building and staffing a new school for rural children. His wife taught English at Hue University.

"We found living in Asia very agreeable," Greg says. "My family came to the U.S. from Taiwan as graduate students, and I spent several years and many summers there. I speak Mandarin and Vietnamese, and my wife, who was raised in Little Saigon in Los Angeles, speaks Vietnamese."



Clinic Administrator, Greg Tung

Back to School

Furthering his interest in healthcare, Greg is now a distance-learning student at Johns Hopkins University in Baltimore, studying for a Masters in Public Health. He joins 90 students from all over the world, most of whom are physicians in public health. The group visits Baltimore for several weeks a year, completes research papers, and interacts with classmates in a

sophisticated 'live talk' chat room, where professors lecture and every student participates in the conversation.

"My studies are focused on how to positively impact the public's health," Greg explains, "through understanding disease and strengthening international policies that will improve public health." ●

Research to Prevent Blindness Awards

Generous Support for Research

In support of well-established scientists and promising young faculty, as well as Department-wide ophthalmic study, Research to Prevent Blindness (RPB) has awarded major research grants to the UCSF Department of Ophthalmology this year. RPB is the world's leading voluntary organization supporting eye research, and provides generous unrestricted funding for vision research.

Neurobiology researcher, Hilary Beggs, PhD, Assistant Professor of Ophthalmology and Physiology, received an RPB Career Development Award, to support promising junior

ophthalmology faculty in basic research. She is the sixth UCSF Ophthalmology scientist to receive this prestigious award, including Jacque Duncan, MD, and Tom Lietman, MD. (See profile of Dr. Beggs on page 6.)



Ocular oncology investigator, Professor Joan O'Brien, MD, received the RPB Lew Wasserman Merit Award that supports mid-career scientists who are recognized in their field and actively engaged in eye research. Jonathan Horton, MD, PhD, has also received this award.

Retinal scientist, David Krizaj, PhD, Assistant Professor, was named an RPB James Adams Scholar, an award granted to encourage promising young ophthalmic researchers. His work is focused on calcium regulation, neuromodulation, and glutamine metabolism, which may affect retinal disease.



Infectious ocular disease specialist, Professor Todd Margolis, MD, PhD, Director of the Proctor Foundation, received the RPB Senior Scientific Investigator Award in December 2004, which supports well-established scientists who are recognized leaders in their field and actively engaged in research.

As Chairman of UCSF Ophthalmology, Professor Creig Hoyt, MD, has also received a generous unrestricted RPB research grant to be used by the Department where the need is greatest, providing opportunities for creative planning beyond the scope of restricted



project grants. To date, RPB has awarded over \$4.2 million to the UCSF Department of Ophthalmology. ●

Drs. Joan O'Brien, David Krizaj and Hilary Beggs.

Faculty News & Honors

Richard L. Abbott, MD

Honors: Thomas W. Boyden Endowed Chair in Ophthalmology.
Invited Lectures: “On-Line Risk Management Education for Residents,” AUPO Annual Meeting, Phoenix, Arizona; “Management of Corneal Infections: Acanthamoeba Keratitis,” “How to Decrease Medico-legal Risk in Latin American Ophthalmology,” XXV Pan-American Congress of Ophthalmology, Santiago, Chile; “Pay for Performance: A New Challenge for Ophthalmology,” Cordes Society Annual Meeting; “Review of Pay for Performance in Medicine,” AAO Mid Year Forum, Washington, DC; “Responding to Unanticipated Outcomes,” ASCRS Annual Meeting, Washington, DC; “Update on New ICO Clinical Guidelines,” ICO Annual Meeting, Florence, Italy; “Evidence-Based Medicine and the Formation of Clinical Guidelines,” Chinese Ophthalmological Society, Beijing, China.

Robert Bhisitkul, MD, PhD

Invited Lectures: “Anti-VEGF drugs: Clinical applications,” XXV Pan-American Congress of Ophthalmology, Santiago, Chile; “New Therapies in Age Related Macular Degeneration,” Course Coordinator, XXV Pan-American Congress of Ophthalmology, Santiago, Chile; “Anti VEGF Therapies—from clinical trials to practice,” Asociación de Retina de Occidente, Guadalajara, Mexico; “Update on anti-VEGF therapies in macular degeneration,” Pacific Coast Oto-Ophthalmologic Society, Vancouver, Canada.

J. Brooks Crawford, PhD

Appointments: President, American Ophthalmological Society.

Allan J. Flach, MD, PharmD

Honors: American Academy of Ophthalmology Senior Achievement Award.
Appointments: Outgoing President, Cordes Society.
Pacific Coast Oto-Ophthalmological Society, Counselor-At-Large.
Invited Lectures: “Anti Inflammatory Medications,” “Glaucoma Medications,” UC Irvine; “Nutrition and Ophthalmology,” UC San Diego.

Ed Howes, PhD

Invited Lectures: “Orbital Lymphoma,” Canadian Ophthalmologic Society.

Creig Hoyt, MD

Invited Lectures: Lifetime Distinction Claud Worth Medalist Talk: “Brain Blindness in Children - Are We on the Right Track?,” Changing Lives: Children’s Eye Group & David Taylor’s Retirement Symposium, Institute of Child Health, London; “What Do We Really Know About Amblyopia?” and “Dyslexia: In Your Eyes?,” University of Alabama Annual Clinical and Research Symposium; “Nystagmus Surprises in Children” and “Optic Atrophy in Kids – Now What?,” Diagnosis and Management in Pediatric Ophthalmology and Neuro-Ophthalmology Spring Conference, WK Kellogg Eye Center, Ann Arbor, Michigan; “Neurology of Amblyopia” and “Cortical Visual Impairment,” Symposium of Santa Casa, Brazil.

Shan Lin, MD

Honors: Kimura Resident Teaching Excellence Award, UCSF.
Appointments: President, Pacific Coast Oto-Ophthalmological Society; UCSF Diversity Faculty Subcommittee; UCSF Council of Minority Organizations.
Invited Lectures: “Cyclophotocoagulation: An Endoscopic Journey,” Pan-American

Academy of Ophthalmology, Santiago, Chile; “The Cause of Glaucoma: Are We There Yet?” and “An Endoscopic Journey into the Eye,” Pacific Coast Oto-Ophthalmological Society, Vancouver; “Effect of Statin Drugs and Aspirin on Glaucoma Progression,” Association of International Glaucoma Societies World Glaucoma Congress, Vienna; “Phaco—Chopping Techniques,” Harvard Medical School Cataract Surgical Training Conference, Boston; “Medical Treatment Update,” Glaucoma Symposium, Jules Stein Eye Institute, Yosemite; “Candidate Cytoskeletal Proteins in the Outflow Obstruction of Primary Open-Angle Glaucoma,” American Glaucoma Summit, Salt Lake City; “The Role of the Cytoskeleton in Glaucoma,” Grand Rounds, UCSF, San Francisco; “Lasers in Glaucoma and Interpreting Autoperimetry,” Stanford University, Palo Alto; Global Association of International Glaucoma Societies Consensus Meeting.

Todd Margolis, MD, PhD

Appointments: Blue Ribbon External Review Committee, Schepens Eye Research Institute, Boston, Massachusetts.
Invited Lectures: “Choosing Antivirals for the Treatment of Corneal Diseases,” World Cornea Congress, Washington DC; “Understanding Latent Infection with Herpes Simplex Virus,” Schepens Eye Research Institute Biennial Cornea Research Conference, Boston.

Stephen McLeod, MD

Appointments: Faculty member, Intensive Cataract Surgical Training Conference, Mass Eye and Ear Infirmary.
Invited Lectures: “Accommodating Intraocular Lens Technology: Past, Present and Future,” Honored Alumni Lecturer for the University of Illinois at Chicago, Department of Ophthalmology and Visual Sciences; Update in Treatment, Alcon Meeting, Saratoga, New York; “Capsular Bag Fibrosis Following Cataract Extraction” and “Accommodating Intraocular Lens Technology: an Update,” Annual Meeting of the Pan America Association of Ophthalmology, Santiago, Chile; “Anterior Segment Complications of Cataract Surgery,” First Annual Harvard Resident Microsurgery Course, Cambridge, Massachusetts; “Accommodating IOL Technology: The Journey Begins,” Peter Kronfeld Memorial Lecture, University of Illinois at Chicago Department of Ophthalmology and Visual Sciences; “The Role of Non-Steroidals After Cataract Surgery,” Albany Eye Society, Saratoga Springs, New York.

Julie Schnapf, PhD

Honors: Stanford and Joan Alexander Lecturer, Department of Ophthalmology and Visual Science, University of Texas, Houston.
Invited Lectures: “Electrical Coupling of Photoreceptors,” 2005 FASEB Research Conference: Biology and Chemistry of Vision, Tucson, Arizona.

Stuart R. Seiff, MD

Honors: The Walter Wright Lecturer, University of Toronto; Invited Participant, Pan American Association of Ophthalmology, Santiago, Chile; Special Guest Lecturer, The Argentine Society of Ophthalmology; Visiting Professor, Scheie Eye Institute, University of Pennsylvania.
Elected: Secretary of Meetings and Executive Committee, American Society of Ophthalmic Plastic and Reconstructive Surgery.

TMMS News

TMMS President Kathleen Rydar Named Outstanding Fundraising Professional

“TMMS President Kathleen Rydar is an inspiration and teacher to fundraisers throughout the Bay Area,” according to the Association of Fundraising Professionals-Golden Gate Chapter and the Northern California Grantmakers. The association named Kathleen the *Hank Rosso Outstanding Fundraising Professional*, honoring an individual who creatively organizes fundraising

campaigns that result in successful fund development — someone who keeps the spirit of the legendary fundraiser Hank Rosso alive through professional leadership and commitment to the field of fundraising.

Kathleen will receive this prestigious award at the National Philanthropy Day luncheon on November 14, at the Oakland Convention Center.

Calling her “a proven fundraiser,” the association praises Kathleen Rydar’s commitment to That Man May See, where she was named President in 2003. ●

“Generosity of spirit can change the world,” says Kathleen. “I’m grateful for those who say ‘yes’ to support work that improves life for others. You make all the difference.”



Creating a Legacy for That Man May See

Janet and Bill Dinsmore



We want to leave a legacy that can bring sight to others for years to come,” says Janet Dinsmore, Board member of That Man May See. She and her husband Bill recently made a generous estate-planned gift to support vision research, training of future ophthalmologists, and excellence in patient care at UCSF Ophthalmology.

Janet and Bill know the meaning of breakthrough research. They support That Man May See annually, as members of the Chairman’s Forum. With their longer-term gift as a Charitable

Remainder Trust, the Dinsmores want to create a more significant fund that can result in quality research to combat the type of age-related eye disease that took Bill’s father’s sight while he was alive.

Former Chief Executive Officer of The Learning Company, Bill led the Company from 1985 to 1995, as it became

the premier brand of educational software for children and adults. Now he serves as a private investor and advisor to emerging California companies. “Major investors are critical for businesses to thrive,” says Bill. “That Man May See also needs future gifts in order to achieve long-term excellence.”

“We feel honored to support such an outstanding research and teaching institution,” says Janet. “We know the future of ophthalmology is in good hands when over 350 young new medical doctors apply for the four to five residency positions in the UCSF Department of Ophthalmology each year. All are in the top 5% of the top medical schools in the country. We want to encourage such an attractive place to maintain its position of excellence – long into the future.”

A well-thought-out planned gift can be a wise decision for donors as well as the beneficiary. The Dinsmores established a Charitable Remainder Trust funded with appreciated securities, and designated That Man May See as the remainder beneficiary. ●

Thelma de Souza Joins TMMS

Director of Corporate Support & Events

Ilove to ask for funding for a good cause,” says longtime UCSF administrator Thelma de Souza, who joins That Man May See as Director of Corporate Support and Events, inviting corporate donors to support groundbreaking ophthalmology research and care. At TMMS, Thelma plans donor receptions and fund raising events and seeks corporate sponsors. She works at TMMS every afternoon, and in the mornings, she continues to work for the Ophthalmology Department, managing academic personnel and post-graduate education and organizing major academic conferences.



“I’ve seen the benefits of research funded by TMMS. I know how great the need is, and what it costs to do great research, and donor support is just crucial,” she says.

Thelma came to UCSF as a UC Berkeley graduate in 1975, and in 1983 she joined the staff of former Ophthalmology Chair Steven G. Kramer, MD, PhD, as Department Administrator, when there

were just 12 faculty members (there are now over 30 Ophthalmology faculty).

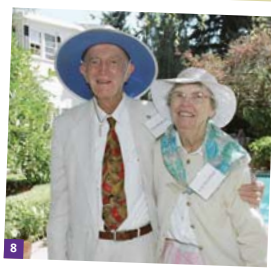
Community Volunteer

“When I have free time, I work at Dr. Shan Lin’s Chinese American Eye Study in Chinatown, because it will improve the lives of patients in Chinatown and beyond,” says Thelma.” (See *American Chinese Eye Study*, page 1.)

She has persuaded her sisters – also longtime UCSF administrative staff—to

volunteer for Ophthalmology Department events. Mercedes de Souza is with the UCSF Affirmative Action/Diversity Department, and Marie de Souza is with UCSF Academic Personnel.

Thelma, who lives in San Francisco, has also been an Executive Volunteer Board member and volunteer at the Asian Art Museum in San Francisco for 6 years. There, she helps develop and staff large development events. ●



1 Judy Riedel, left, with Terrie Haden, Candace Olsen, Marilee Tinker, and Sharon Welty. Three TMMS Board couples, Janet and Bill Dinsmore, Rosanne and Mike Ogles, and Judy and Fred Riedel, hosted this special event in the Dinsmore home. The evening honored the Wayne and Gladys Valley Foundation, the Thomas J. Long Foundation, and That Man May See Board member, Dick Olsen.

2 Over 200 new and old friends of That Man May See were hosted to a Sunday brunch at the home of Mike and Mary Ellen Fox of Saratoga. UCSF Ophthalmology faculty and former resident, Dr. David Chang, made inspiring remarks about advancements in research and the potential to cure vision loss throughout the Bay Area and worldwide.

3 At the home of Mike and Mary Ellen Fox, Dr. Creig Hoyt presents Dr. David Chang with That Man May See's and the UCSF Department of Ophthalmology's first Distinguished Alumni Achievement Award.

4 Deborah and Stan Arterberry and Mike and Margie Blach flank Mike Fox, host of the lively and delicious event celebrating medical research at UCSF Ophthalmology. "We want to celebrate the work of these wonderful physicians," says Mr. Fox. "Their education, training, experience, and dedication to That Man May See are remarkable."

5 Dr. Harry Chong with Dr. Emuna Dong at the Fox event with Judge Dolores Carr. Dr. Dong was the first female resident at UCSF Ophthalmology and practiced in Salinas for many years.

6 Mary Ellen Fox welcomes Carol Chang and Dr. Francis Chang, to the Sunday brunch honoring the Changs' son, Dr. David Chang.

7 Pearl Kimura, far right, hosted a dinner for That Man May See in honor of Theresa Caygill, second from left, and celebrating the Theresa M. and Wayne M. Caygill, MD, Chair in Ophthalmology. Dr. Creig Hoyt, left, conferred the endowed chair to Dr. Stephen McLeod, second from right.

8 Peter and Lela Moulthrop traveled from the East Bay to Saratoga for brunch at the Fox home. "We are happy to support macular degeneration research and appreciate updates from the UCSF Ophthalmology faculty," said the Moulthrops, whose support is helping Dr. Daniel Schwartz advance new therapies and devices aimed at a cure.

9 "Are you real – and can you read me a story?" Alexandra Cockerham seems to be asking the artistic sculpture in the garden at the Fox home. Alexandra is the daughter of Dr. Kim Cockerham and Dr. Glenn Cockerham.

10 Dr. Shan Lin with Adrienne Graves, Santen CEO, near the UCSF Eye Mobile, that winds through San Francisco's Chinatown each week. The American Chinese Eye Study, funded in part by Santen, examines residents in the hopes of finding cures for glaucoma among Asian populations. (See page 1, Saving Vision in Chinatown.)

Her Leadership Made a Difference

Shirley Reich Provides Estate Plan Through TMMS

When Shirley Reich, one of California's first female stock brokers, came onto the Board of That Man May See, she jumped in with her total being. "That's how she did everything," said Linda Klett, close friend for decades. "Shirley wanted the best for everyone, and she set high standards. She was so proud of the UCSF faculty and their accomplishments, and thoroughly enjoyed serving on the TMMS Board."

Ms. Reich provided generously for That Man May See with an estate-planned gift, when she passed away in April. She was a pioneer investment professional, when men largely dominated the field, working at Merrill Lynch in the early 1950s and

then at Dean Witter (now Morgan Stanley Dean Witter). In 1965, she was President of The Financial Women's Association of San Francisco.

TMMS honored Ms. Reich in 2003 with the first Volunteer Award for Distinguished Service for her courage and follow-through in fundraising. She brought many gifts to the university and was a generous philanthropist. Ms. Reich also was active on the UCSF Hospitals Auxiliary Board and was a member of Temple Emanu-El.

"Though retired, she was no slouch," says Ann Golson, a TMMS Board Member introduced to the organization by Ms. Reich. "She was a diligent

crusader, and kept an eye out for others who might help fund research to cure vision loss."

"Shirley was an excellent role model, with her great sense of social compassion and honesty," said Robert Stamper, MD, who was her UCSF ophthalmologist. "Her inspiring gift will generate hope and keep us striving for breakthroughs. That's what she would have wanted."

For further information about including That Man May See in your estate plan, call (415) 476-4016 or email tmms@vision.ucsf.edu ●

Andrew Yau Funds Endowment

Dr. Richard L. Abbott Holds the Thomas W. Boyden Chair

Cornea surgeon and international leader in ophthalmic practice guidelines, Professor Richard L. Abbott, MD, holds the newest endowed chair in the Department.

The eighth chair to be endowed at UCSF Ophthalmology was created by the generosity of That Man May See Board member, Andrew Yau. Support for the chair was given in memory of Thomas Boyden, President of TMMS for 10 years. When Mr. Yau learned of Mr. Boyden's sudden death in 2003, he responded with compassion and this thoughtful gift.

"I called Creig Hoyt and told him that Tom had asked me to fund a chair some time earlier, and I wanted to do it in honor of Tom Boyden's work," recalls Mr. Yau. "Giving in support of those who give their heart and soul for the benefit of humanity is the most worthwhile and effective way to give." Mr. Yau is CEO of the Practical Group of Companies in Thailand.

"Holding this special chair is an honor that touches me deeply," says Dr. Abbott. "Tom

Boyden was a close colleague, and Mr. Yau is a highly respected and longtime friend of That Man May See."

Dr. Abbott's International Work To Benefit Eye Care
"My work currently involves two regions of the world – Latin America and China—where I am spending an increasing amount of time," says Dr. Abbott. (See *Hope for World Vision*, page 1.)

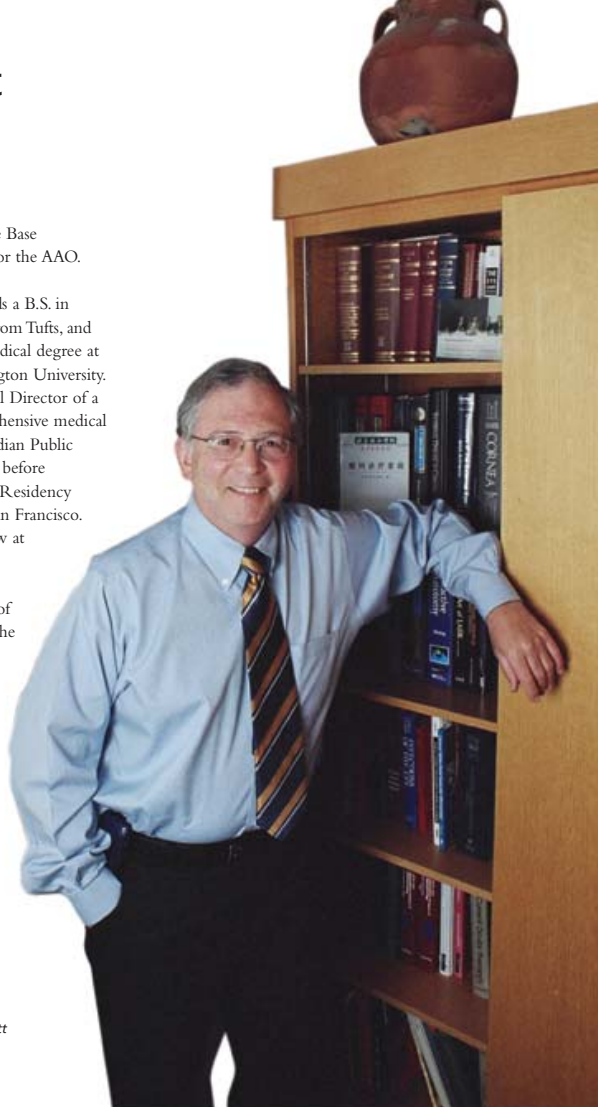
Dr. Abbott's research and clinical activities have focused primarily in corneal and external disease, health policy, risk management, and practice guideline development. His efforts are now focused on developing patient-oriented educational materials, ethical standards, and risk management guidelines for refractive procedures.

Recognized Leader
A former member of the Board of the American Academy of Ophthalmology (AAO), the American Board of Ophthalmology (ABO), and the Ophthalmic Mutual Insurance Company (OMIC), Dr. Abbott is currently the Secretary for Quality of Care

and Knowledge Base Development for the AAO.

Dr. Abbott holds a B.S. in Biochemistry from Tufts, and received his medical degree at George Washington University. He was Medical Director of a remote comprehensive medical clinic in the Indian Public Health Service, before completing his Residency at CPMC in San Francisco. He was a Fellow at Bascom Palmer Eye Institute at the University of Miami, and at the Massachusetts Eye and Ear Infirmary. Dr. Abbott lectures nationally and internationally, and has published numerous articles in his field. ●

Dr. Richard Abbott



Board OF DIRECTORS

TMMS Welcomes New Board Members



Paige Hutson

Paige Hutson has over 10 years' experience creating and managing marketing programs for a range of companies including professional services, manufacturing, hospitality, and medical groups. She

holds a BA in economics from UC Davis.

A Marin native, Mrs. Hutson is married to Kirby Hutson. Their three-year-old son is a retinoblastoma survivor and a patient of Joan O'Brien, MD. A spokesperson now in search of a cure, Mrs. Hutson is currently launching a children's program for the Marin chapter of the American Cancer Society called "The Kids Cure It Club." Mrs. Hutson has also created a program with Dr. O'Brien, "Focus on A Cure," to facilitate research, support, and education for children with retinoblastoma.

The Hutsons have three children, and Paige is active in her children's schools and PTA programs. She is a student of classical piano and a competitive runner. Mrs. Hutson has traveled extensively in Asia, Africa, Europe, and Central and South America, and is fluent in Spanish.



Albert R. Schreck

Albert Schreck is chairman of Montgomery Capital Corporation in San Francisco, and a graduate of Williams College. An avid horseman, Mr. Schreck is Master of Fox Hounds, Emeritus Los Altos Hounds

and County Limerick. He is an active philanthropist on behalf of the arts, environment, education, and community capacity building, and serves as a director of the Abelard Foundation. He is a long-time Board member of the San Francisco Museum of Modern Art, where he has chaired numerous committees, including Development. He spearheaded the campaign for the Portola Valley Schools Foundation.

His ophthalmologist for many years was Stacy Mettier, MD, a member of That Man May See's Board. Mr. Schreck and his wife, Jo, have three sons and reside in Portola Valley.



A. Sydney Williams, MD

Dr. Williams currently practices as an ophthalmologist in San Mateo and is UCSF Associate Clinical Professor of Ophthalmology. He was educated at UC Davis, and received his MD at

Howard University College of Medicine.

He has served as the Director of Glaucoma Services at Stanford, and was Medical Director of the Health Care Center of North Rockland, New York. Dr. Williams did his Internship at St. Vincent's Hospital, New York; his Residency at UCSF; and received a Glaucoma Fellowship to Massachusetts Eye and Ear Infirmary. Dr. Williams was inducted into the Alpha Kappa Alpha Medical Honor Society in 1981.

Dr. Williams is a Fellow of the American Academy of Ophthalmology and Assistant Vice President of Education of the California Association of Ophthalmology. Among his many honors and memberships, Dr. Williams is incoming President of the UCSF Cordes Society.

He and his wife, Rosa, live in San Francisco and have two children.

Global Health Initiative

International Working Partnerships
Interdisciplinary Cooperation

An extraordinary interdisciplinary program dedicated to the care of vulnerable populations at home and throughout the world, Global Health Sciences (GHS) at UCSF is building interdisciplinary cooperation on campus – and training the global health leadership of the 21st century.

“International health programs have long been part of the rich training and research portfolio of UCSF faculty,” says Haile Debas, MD, Executive Director of GHS and former Chancellor and Dean of the School of Medicine. “Our vision is a network of collaborative relationships at UCSF and throughout the world, beginning in Africa and Asia.”

Ophthalmology Research & Training

“Prevention of blindness is a major target in global health,” says Todd Margolis, MD, PhD, Director of the Proctor Foundation and a member of the GHS Steering Committee. “In developing countries, blindness occurs more frequently and at younger ages, seriously compromising affected individuals’ ability to be economically productive. We are looking at ways to aid scientists in their own countries in solving these problems.”

With Global Health Sciences as a catalyst, faculty from disparate areas at UCSF are



Dr. Haile Debas



Dr. Todd Margolis

developing new projects together. Investigators from the Proctor Foundation, for example, are discussing research projects focused on the unique presentations of trachoma and HSV infection in women, with Professor of Obstetrics & Gynecology, Nancy Padian, PhD, an epidemiologist who is GHS Associate Director for Research, and Executive Director of the Women’s Global Health Imperative.

The GHS has established “sandwich” training programs to develop health care leaders in developing countries, but prevent ‘brain drain.’ Students are selected from the home country institution where they will get their degree; they come

to GHS for advanced interdisciplinary training, and return home to graduate. The first students from Kenya will arrive at UCSF in 2006.

Developing Resources

Collaborators at GHS are also developing new resources for international projects, including a computerized database of international faculty, staff and students.

“As an umbrella organization, UCSF Global Health Sciences underscores UCSF’s commitment to global health, and to developing the human resources that will sustain and advance science and healthcare in resource-constrained settings,” says Dr. Debas.

Join the Global Health Sciences database to stay informed of GHS programs:
<http://globalhealthsciences.ucsf.edu/globalhealth/login.aspx> ●



Koret Vision Institute + Beckman Vision Center

A facility of the UCSF Department of Ophthalmology

University of California San Francisco Department of Ophthalmology 10 Koret Way Room K-301 San Francisco, CA 94143-0730 Director and Chairman Creig S. Hoyt, MD	HOW TO REACH US Comprehensive Eye Center 415.353.2800 Routine eye care, acute care, eye disease referrals Contact Lenses 415.353.2800	Cataract Care 415.476.3705	Pediatric Ophthalmology 415.353.2289	Vision Correction Center 415.476.5698 Individualized vision correction surgery, including LASIK and PRK
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