

# BAY AREA OPHTHALMOLOGY COURSE

## at STANFORD UNIVERSITY

### 2007 SCHEDULE

**Course Director: Glenn C. Cockerham, MD**

Chief, Ophthalmology Section, VA Hospital, Palo Alto and Clinical Associate Professor of  
Ophthalmology & Pathology, Stanford University Medical Center

**Course Co-Director: Kimberly P. Cockerham, MD**

Clinical Associate Professor of Ophthalmology, Stanford University Medical Center

**July 2<sup>nd</sup>, Monday                      Anatomy & Pathology**

8:00-8:45	Anterior Segment Anatomy	Suketu Sanghvi, MD
9:00-9:45	Posterior Segment Anatomy	Suketu Sanghvi, MD
10:00-noon	Dissection Globes/Normal Slides	Lab
1:00-1:45	Introduction to Pathology	Martin Fishman, MD, Peter Egbert, MD
2:00-4:45	Eye Histology Lab	Glenn Cockerham, MD

**July 3<sup>rd</sup>, Tuesday                      Anatomy & Pathology**

8:00-4:45	Eye Histology Lab	Peter Egbert, MD
		Martin Fishman, MD
		Glenn Cockerham, MD

**July 4<sup>th</sup>, Wednesday                      HOLIDAY**

**July 5<sup>th</sup>, Thursday                      Optics & Refraction**

8:00-10:30	Laws of Refraction, Prisms	David Guyton, MD, Joseph Miller, MD, MPH
10:45-12:00	Vergence	
1:00-3:00	Correction of Ametropia	
3:15-5:00	Optics Lab	

**5:00-7:00    Welcoming Reception/Courtyard**

**July 6<sup>th</sup>, Friday                      Optics & Refraction**

8:00-8:45	Accommodation	David Guyton, MD, Joseph Miller, MD, MPH
8:45-10:15	Astigmatism	
10:30-12:00	Contact lenses and Intraocular Lenses	
1:00-2:45	Magnification; Low Vision	
3:00-4:00	Object-Image movement; Mirrors	
4:00-5:00	Optics Lab	

**July 7<sup>th</sup>, Saturday                      Optics & Refraction**

8:00-9:00	Physical Optics	David Guyton, MD, Joseph Miller, MD, MPH
9:00-10:30	Ophthalmic Instruments	
10:45-11:30	Visual Acuity	
11:30-12:00	Retinoscopy	

**12:10                      CLASS PHOTO – Memorial Church**

1:00-2:30	Subjective Refraction
2:30-3:15	Reading Adds; Cycloplegia
3:30-4:45	Prescribing



**July 9<sup>th</sup>, Monday                      Ophthalmic Lasers / IOLs / Phacoemulsification Lab**

8:00-9:45	Therapeutic Lasers in Ophthalmology	Daniel Palanker, PhD
10:00-11:00	Phacodynamics	Scott Lee, MD, MPH
11:00-11:30	Phacoemulsification Techniques	Neil J. Friedman, MD
11:30-noon	IOLs: Past, Present & Future	Neil J. Friedman, MD
1:00-5:00	Phacoemulsification Lab	Wm. Jerry Chang, MD
		Glenn C. Cockerham, MD
		Peter R. Egbert, MD
		Neil J. Friedman, MD
		Scott Lee, MD

**Noon-1:00pm Lunch/Courtyard**

**July 10<sup>th</sup>, Tuesday**

8:00-8:05	Introduction
8:05-8:55	Aqueous Humor Dynamics
8:55-9:35	Clinical Anatomy of the Optic Nerve
9:35-10:20	Optic Nerve Changes in Glaucoma
10:30-11:15	Epidemiology of Glaucoma
11:15-11:55	NEW Thoughts about Angle Closure Glaucoma
1:00-1:55	Glaucoma Pharmacology
1:55-2:50	Lasers & Surgery in Glaucoma
3:00-3:55	Pathology of the Glaucomas
3:55-4:50	The Impact of National Clinical Trials on Glaucoma Practice
4:50-5:00	Summary

**July 11<sup>th</sup>, Wednesday                      Pediatric Ophthalmology**

8:00-9:00	Motility Testing
9:30-11:00	Horizontal Deviations
11:00-11:30	Visual Development
11:30-noon	Amblyopia
1:00-1:45	Nystagmus & Childhood Blindness
1:45-3:15	Vertical Deviations
3:30-5:00	Case Discussions

**July 12<sup>th</sup>, Thursday                      Cornea**

8:00-noon	Corneal Physiology
1:00-1:45	Contact Lens Physiology
1:50-3:00	Corneal Transplantation
3:15-4:30	Corneal Refractive Surgery

**5:00-7:00      Reception/Courtyard**

**July 13<sup>th</sup>, Friday                      Cornea**

8:00-9:45	Dry Eye Pathophysiology and Therapy
10:00-noon	Ocular Microbiology/Parasitology
1:00-1:45	Ocular Virology
1:55-2:30	The Cornea in Metabolic Disease
3:00-4:30	Corneal Dystrophies/Dysgenesis & Degeneration

**Glaucoma**

Marc Lieberman, MD / Kuldev Singh MD
Michele Lim MD
Marc Lieberman, MD
Marc Lieberman, MD
Kuldev Singh, MD

Marc Lieberman, MD
Christopher Engelman, MD
Andrew Iwach, MD
Martin Fishman, MD

Kuldev Singh, MD
Kuldev Singh, MD

Y. Joyce Liao, MD
Debby Alcorn, MD
Douglas Fredrick, MD
Douglas Fredrick, MD

To be announced
Mary O'Hara, MD
Alcorn/Fredrick/O'Hara

Joseph Eliason, MD
John Corzine, OD, FAAO
Glenn C. Cockerham, MD
Edward E. Manche, MD

Stephen Pflugfelder, MD
Terrence P. O'Brien, MD
Christopher Ta, MD
Glenn C. Cockerham, MD
Glenn C. Cockerham, MD

**July 16<sup>th</sup>, Monday                      Epidemiology/Wound Healing/Neuro-Radiology**

8:00-11:00	Introduction to Epidemiology and Biostatistics	Kristin Cobb, PhD
11:00-noon	Basics of Wound Healing	Mark Rosenblatt, MD
1:00-1:30	Orbit: Imaging Protocols and Normal Anatomy	Nancy Fischbein, MD
1:30-2:15	Imaging the Visual Pathways	Nancy Fischbein, MD
2:15-3:15	Trauma to Eye Orbit & Visual Pathways	Alisa Gean, MD
3:30-4:15	Non-traumatic Lesions of the Orbit	Nancy Fischbein, MD
4:15-5:00	The Orbit and its Cranial Nerves	Nancy Fischbein, MD

**July 17<sup>th</sup>, Tuesday                      Pharmacology & Toxicology/AM — Immunology/PM**

8:00-12:00	Pharmacology and Toxicology	Allan Flach, MD, PharmD
1:00-2:15	Ocular Immunology	Emmett Cunningham, Jr, MD, PhD, MPH
2:15-3:00	Physical Findings in Uveitis	Emmett Cunningham, Jr, MD, PhD, MPH
3:15-4:10	Treatment Principles in Uveitis	Emmett Cunningham, Jr, MD, PhD, MPH
4:10-5:00	Scleritis and Episcleritis	Emmett Cunningham, Jr, MD, PhD, MPH

**July 18<sup>th</sup>, Wednesday                      Pharmacology & Toxicology AM — Neuro-pharmacology PM**

8:00-12:00	Pharmacology and Toxicology	Allan Flach, MD, PharmD
1:00-1:45	Immunomodulation for Neuro-ophthalmology	Y. Joyce Liao, MD
1:45-2:15	Immunomodulation for Orbital Disease	Kimberly P. Cockerham, MD
2:30-3:15	Botox	David E. Holck, MD
3:15-3:45	Hyaluronic Acid and Other Fillers	David E. Holck, MD
3:45-5:00	Cases/Panel Comment	Robert Dryden, MD/Cockerham/Holck/Liao

**July 19<sup>th</sup>, Thursday                      Eyelid/Orbital Anatomy**

8:00-9:00	Osteology Didactic/Hands-on	John Sullivan, MD
9:00-10:00	Eyelid Anatomy: Surgical Correlation (Notes by Rona Z. Silkiss, MD, FACS)	Robert Dryden, MD
10:15-11:30	Orbit from all Views (Didactic/3D tour)	Eva Hewes, MD
11:30-noon	Clinical Correlations	David E. Holck, MD
1:00-1:45	Lacrimal System	Rona Z. Silkiss, MD, FACS
2:30-3:00	Facial Nerves	David E. Holck, MD
3:15-4:30	Clinical Correlations	Robert Dryden, MD

**July 20<sup>th</sup>, Friday                      Technology Day (details follow)*****Noon-1:00pm Lunch/Courtyard; 5:00-7:00 Dinner Reception/Courtyard*****July 23<sup>rd</sup>, Monday                      Orbit/Eyelid Pathology AM — Genetics PM**

8:00-9:00	Conjunctival Tumors	Brooks Crawford, MD
9:00-10:00	Tumors of the Eyelids	Brooks Crawford, MD
10:15-11:00	Orbital Tumors	Kelly Keefe, MD
11:00-noon	Orbital Inflammation	Kelly Keefe, MD
1:00-3:00	Molecular Genetics	Douglas Vollrath, MD, PhD
3:15-5:00	Ocular Genetics	Debby Alcorn, MD

**July 24<sup>th</sup>, Tuesday                      Retina**

8:00-9:00	Retinal and RPE Physiology	Michael Marmor, MD
9:00-10:00	Photoreception and Phototransduction	Michael Marmor, MD
10:15-11:00	Color Vision	Michael Marmor, MD
11:00-12:00	Electrophysiologic Testing	Michael Marmor, MD
1:00-2:00	Retinal Neovascularization	Ray Gariano, MD, PhD
2:00-3:00	Pediatric Retina	Darius Moshfeghi, MD
3:00-5:00	Ocular Oncology: An Interactive Overview	Devron Char, MD

**July 25<sup>th</sup>, Wednesday**

- 8:00-9:00 Retinal Dystrophies/Toxicity
- 9:00-10:00 Developing Therapies for Retinal Degeneration
- 10:15-11:00 Retinal Vascular Disease
- 11:00-12:00: ARMD: Pathogenesis and Therapy
- 1:00-1:45 Retinal Detachment
- 1:45-2:45 Retinal Infection
- 3:00-4:00 Pathology of the Retina
- 4:00-5:00 Pathology of the Peripheral Retina and Vitreous

**July 26<sup>th</sup>, Thursday Neuro-ophthalmology**

- 8:30-9:15 Anatomy and Physiology of the Optic Nerve
- 9:15-10:00 Optic Nerve vs. Retinal Visual Loss
- 10:15-11:00 Optic Chiasm and Anterior Visual Pathways
- 11:00-12:00 Anatomical Basis for Neuro-Ophthalmic  
Visual Fields
- 1:00-1:45 Clinical Approach to Diplopia
- 1:45-2:15 Interactive Cases

- 2:30-3:30 Cortical Visual Phenomena
- 3:30-4:30 Visual Processing in the Cortex

**July 27<sup>th</sup>, Friday Neuro-ophthalmology**

- 8:00-8:45 Life Threatening Pupil Abnormalities  
Didactic:  
Case Presentations:
- 8:45-9:30 Visual Field Interpretation  
Didactic:  
Case Presentations:
- 9:45-10:30 Optic Disc Edema vs. Pseudoedema  
Didactic:  
Case Presentations:
- 10:30-11:15 Life Threatening Diplopia  
Didactic:  
Case Presentations:
- 11:15-noon Ischemic Optic Neuropathy & Optic Neuritis  
Didactic:  
Case Presentations:
- 1:00-1:45 Functional Abnormalities  
Didactic:  
Case Presentations:
- 1:45-2:15 Eye Movements & Nystagmus  
Didactic:  
Case Presentations:
- 2:15-3:00 Imaging in Neuro-Ophthalmology  
Didactic:  
Case Presentations:
- 3:15-4:15 Interactive Case Presentations

**Retina**

- Michael Marmor, MD
- Matthew LaVail, PhD
- Mark Blumenkranz, MD
- Mark Blumenkranz, MD
- Thomas Rice, MD
- Steven Sanislo, MD
- William Lloyd III, MD, FACS
- William Lloyd III, MD, FACS

- Alfredo Sadun, MD, PhD
- Alfredo Sadun, MD, PhD
- Alfredo Sadun, MD, PhD
- Alfredo Sadun, MD, PhD

- Kimberly P. Cockerham, MD
- Kimberly P. Cockerham, MD
- Alfredo Sadun, MD, PhD
- Alfredo Sadun, MD, PhD
- Alfredo Sadun, MD, PhD

- Andrew G. Lee, MD
- Anthony C. Arnold, MD

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**4:30pm – 7:00pm Courtyard Reception/Certificates given out**

***Technology Day 2007***  
**Bay Area Ophthalmology Course**  
**Friday, July 20<sup>th</sup>**  
**8:00 am – 5:00 pm**  
**Courtyard lunch provided**  
**Dinner Reception for all to Follow**

**Both lectures and labs will take place in the Alway Building at the Stanford School of Medicine. Lectures will be on the first floor, Room M106; lab sessions will be right above the lecture room on the second floor, in the Fleischmann Laboratories, Rooms M212, M214, and M218**

**Students will be divided into two groups (A and B); Group assignments will be posted the evening before and announced the morning of the course.**

**Anterior Segment**

Pachymetry	Neil Friedman, MD (lecture and lab)
Keratometry	Neil Friedman, MD (lecture and lab)
A-scan	Neil Friedman, MD (lecture and lab)
IOLMaster (Zeiss)	Neil Friedman, MD (lecture and lab)
Corneal topography (Alcon)	Neil Friedman, MD (lecture and lab)
Anterior Segment Imaging, OCT (Zeiss)	Scott Lee, MD (lecture and lab)
Wavefront analysis (Alcon, VISX)	Scott Lee, MD (lecture and lab)
Specular microscope (Konan)	Glenn Cockerham, MD (lecture and lab)
Confocal microscope (HRT, Nidek)	Glenn Cockerham, MD (lecture and lab)
Ocular Response Analyzer	Glenn Cockerham, MD (lecture and lab)

**Posterior Segment**

ERG and mfERG	Michael Marmor, MD (lecture and lab)
OCT and FA	Steve Sanislo, MD (lecture and lab)
HVF and ON OCT	Peter Savino, MD (lecture and lab)
GDX/HRT	Kimberly Cockerham, MD (lecture and lab)
VEP and mfVEP	Y. Joyce Liao, MD (lecture and lab)

# Technology Day 2007 Schedule

**8:00am Welcome and overview: Kimberly Cockerham – main lecture hall (M106)**

**Group assignments to be announced but will approximately follow:**

**Group A: Last name starts with A – L**

**Group B: Last name starts with M – Z**

## **8:15am**

**Group A stays in lecture hall (anterior segment lectures)**

**Group B goes to lab (posterior segment tour)**

### **Group A: Lecture Hall (Anterior segment lectures)**

8:15 – 8:45am Neil Friedman: Pachymetry, Keratometry, A-scan, IOL Master,  
Corneal Topography

8:45 – 9:15 am Scott Lee: Anterior Segment Imaging, Wavefront Analysis

9:15 – 9:45 am Glenn Cockerham: Specular Microscopy, Confocal Microscopy,  
Ocular Response Analyzer

### **Group B: Lab (Posterior segment tour)**

Peter Savino HVF, OCT for optic nerve

Steve Sanislo OCT, FA for retina

Michael F. Marmor ERG, mfERG

Y. Joyce Liao VEP, mfVEP

Kimberly Cockerham HRT, GDx

## **Break**

**9:45 – 10:15 am**

## **10:15am**

**Group A goes to lab (anterior segment tour)**

**Group B goes to lecture hall (posterior segment lectures)**

### **Group A: Lab (Anterior segment tour)**

Pachymetry, Keratometry, A-scan, IOL Master,  
Corneal Topography

Anterior Segment Imaging, Wavefront Analysis

Specular Microscopy, Confocal Microscopy,

Ocular Response Analyzer

Neil Friedman

Scott Lee

Glenn Cockerham

### **Group B: Lecture Hall (Posterior segment lectures)**

Michael Marmor ERG and mfERG

Steve Sanislo OCT and FA

Peter Savino HVF and ON OCT

Kimberly Cockerham GDx/HRT

Y. Joyce Liao VEP and mfVEP

**Courtyard Lunch: 11:55 am – 1pm**

**1 pm**

**Group A goes to lab (posterior segment tour)**

**Group B goes to lecture hall (anterior segment lectures)**

**Group A: Lab (Posterior segment tour)**

Peter Savino	HVF, OCT for optic nerve
Steve Sanislo	OCT, FA for retina
Michael F. Marmor	ERG, mfERG
Y. Joyce Liao	VEP, mfVEP
Kimberly Cockerham	HRT, GDX

**Group B: Lecture Hall (Anterior segment lectures)**

1:15 – 1:45am	Neil Friedman: Pachymetry, Keratometry, A-scan, IOL Master, Corneal Topography
1:45 – 2:15 am	Scott Lee: Anterior Segment Imaging, Wavefront Analysis
2:15 – 2:45 am	Glenn Cockerham: Specular Microscopy, Confocal Microscopy, Ocular Response Analyzer

**Break: 2:45 – 3:15 pm**

**3:15 pm**

**Group A goes to lecture hall (posterior segment lectures)**

**Group B goes to lab (anterior segment tours)**

**Group A: Lecture Hall (Posterior segment lectures)**

Michael Marmor	ERG and mfERG
Steve Sanislo	OCT and FA
Peter Savino	HVF and ON OCT
Kimberly Cockerham	GDX/HRT
Y. Joyce Liao	VEP and mfVEP

**Group B: Lab (Anterior segment tour)**

Pachymetry, Keratometry, A-scan, IOL Master, Corneal Topography	Neil Friedman
Anterior Segment Imaging, Wavefront Analysis	Scott Lee
Specular Microscopy, Confocal Microscopy, Ocular Response Analyzer	Glenn Cockerham

<b>Courtyard Reception for faculty, ancillary staff and students 5 - 7 pm</b>
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