



STATE BOARD OF OPTOMETRY
 2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834
 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course
 Approval Checklist

Title:

Provider Name:

- Completed Application
 - Open to all Optometrists? Yes No
 - Maintain Record Agreement? Yes No
- Correct Application Fee
- Detailed Course Summary
- Detailed Course Outline
- PowerPoint and/or other Presentation Materials
surgical observation course
- Advertising (optional)
- CV for EACH Course Instructor
- License Verification for Each Course Instructor
 - Disciplinary History? Yes No



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CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory

Cashiering and Board Use Only		
Payor ID	Beneficiary ID	Amount
1-1017	5392670	383111
		50

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule and topical outline of the subject matter. Applications must be submitted 45 days prior to the course presentation date.

Please type or print clearly.

Course Title <u>INTENSIVE 6 HOUR 1-ON-1 OBSERVATIONAL TRAINING IN PRE-OP, INTRA-OP AND POST-OP CARE OF THE SURGICAL CATARACT PATIENT.</u>	Course Presentation Date <u>11/30/2016</u>
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Course Provider Contact Information

Provider Name <u>MARK</u> (First) <u>MANDEL</u> (Last) <u>RICHARD</u> (Middle)		
Provider Mailing Address Street <u>1237 B STREET</u> City <u>HAYWARD</u> State <u>CA</u> Zip <u>94541</u>		
Provider Email Address <u>mandel @ optimaeye.com</u>		
Will the proposed course be open to all California licensed optometrists?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Do you agree to maintain and furnish to the Board and/or attending licensee such records of course content and attendance as the Board requires, for a period of at least three years from the date of course presentation?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

Course Instructor Information

Please provide the information below and attach the curriculum vitae for each instructor or lecturer involved in the course. If there are more instructors in the course, please provide the requested information on a separate sheet of paper. (see enclosed)

Instructor Name <u>MARK</u> (First) <u>MANDEL</u> (Last) <u>RICHARD</u> (Middle)		
License Number <u>G42418</u>	License Type <u>CA MEDICAL BOARD</u>	
Phone Number <u>(510) 828-2720</u>	Email Address <u>mandel @ optimaeye.com</u>	

I declare under penalty of perjury under the laws of the State of California that all the information submitted on this form and on any accompanying attachments submitted is true and correct.

John Richard Jedd MD
Signature of Course Provider

10/5/16
Date

**INTENSIVE 6 HOUR ONE-ON-ONE OBSERVATIONAL
TRAINING IN PRE-OP, INTRA-OP AND POST-OPERATIVE
CARE OF THE SURGICAL CATARACT PATIENT**

MARK MANDEL MD

This comprehensive hands-on 6 hour course is designed to include and is open to all optometrists in California. Optometric physicians will join me one-on-one for six hours during which time they will observe multiple modalities of cataract surgery being performed and participate with me in the decision making process regarding: when it is appropriate for the patient to consider surgery, which surgical procedure is the safest and most effective to perform, the details and demonstration of the work-up of the cataract surgery patient, and the in-depth discussion and observation of the pre-operative and postoperative instructions discussed with patients and their families for safe and effective care.

The pre-operative work-up including not only the specifics of a comprehensive corneal and lens evaluation, but the interpretation of topography for toric IOL selection, and the indications and contraindications for multifocal implants will be covered in detail.

The participating optometrist, sitting next to me on every case, will directly observe every step of the surgery via live high magnification/high definition video. We will review each step of the surgical procedure on 8 to 10 surgeries. By observing multiple cases, the optometrist will have a chance to see the gamut of different types of cataract procedures with the implantation of spherical, toric and multifocal implants. Additionally, they will observe the performance of cataract surgery with the femtosecond laser as well as the performance of manual astigmatic keratotomy and the management of complex referral cases.

Unlike any didactic course, by directly participating in the work up, medical decision-making process, intraoperative, and postoperative care, the practicing optometrist will gain tremendous insight into how to counsel potential cataract surgery patients on *when* to entertain

having surgery, and *which* intraocular lens choice to consider, and will become more involved with the specific details of post-operative care.

Over the past year, scores of California optometrists have spent 6 hours with me in the operating room. The start time is 8:30 and we usually finish at 2:30 or 3:00. They have received 4 hours of credit for the 6 hours of teaching. Accordingly, for the next year, I am requesting that the board recognize the actual time committed by these busy practitioners and both approve the course and increase the credits to accurately reflect the actual hours of education.

As a cataract, cornea and refractive specialist, I believe that it is in everyone's best interest for the co-managing optometric physician to have an integral knowledge of the **surgical** process so as to promote the most accurate and safest outcomes for our patients.

**Intensive 6-Hour One-on-one Observational Training in Pre-op, Intra-op & Post-op Care
of the surgical Cataract & Cornea Patient
Mark R. Mandel, M.D.**

**THIS OUTLINE IS WHAT WILL BE VERBALLY AND GRAPHICALLY DISCUSSED IN ADDITION
TO OBSERVATION OF 8-10 SURGERY CASES.**

I) PRE-OP WORK-UP

- A) Vision with/without correction
- B) Keratometry
- C) Slit Lamp Evaluation
 - 1) Lids/Lashes
 - (a) Blepharitis
 - (b) Ectropion/Entropion
 - 2) Conjunctiva
 - 3) Cornea
 - (a) Dry Eye Stains
 - (i) Fluorescein
 - (ii) Rose Bengal
 - (iii) Lissamine Green
 - (b) Epithelium
 - (i) EBMD
 - (ii) Dystrophy/Degeneration
 - (c) Stroma
 - (i) Edema
 - (ii) Scaring
 - (iii) Dystrophy
 - (d) Epithelium
 - (i) Guttata
 - (ii) KP
 - 4) Anterior Chamber
 - (a) Depth
 - (b) Cell and Flare
 - 5) Iris
 - (a) Pupil Size
 - 6) Lens
 - (a) NS
 - (b) PSC
 - (c) ACS
 - (d) Stability Of Lens/Zonules
 - (e) Exfoliation
 - 7) Vitreous
 - (a) P.V.D
 - (b) Blood

- 8) Optic Nerve
- 9) Macula
 - (a) ARMD
 - (b) Hole
 - (c) Drusen
 - (d) Epi-Retinal Membrane
 - (e) Edema/BDR
- D) Indirect Exam
 - 1) Blood Vessels
 - 2) Periphery
 - (a) Holes
 - (b) Tears
 - (c) Lattice
- E) IOL Calculation
 - 1) IOL Master/Emersion
 - 2) IOL Calculation Methods
 - 3) TORIC IOL Calculations
 - 4) If Prior RX or LASIK/PRK
 - (a) How To Adjust IOL Powers
 - (b) HCL Over-Refracton
- F) How to Choose IOL
 - 1) Patient's Needs
 - 2) Advantages/Disadvantage Of Each IOL
 - 3) Tailor IOL To Patient Needs & Side Effects Of IOL
- G) IOL Options Advantage/Disadvantage Of Each Option
 - 1) Distance (Spherical)
 - 2) Monovision Vs. Blended Vision
 - 3) TORIC Choices
 - 4) Multifocal
 - (a) RESTOR
 - (b) TECNIS
 - (c) Symphony

II) INTRA-OPERATIVE CONSIDERATIONS

- A) Phaco Machine
 - 1) Settings
 - 2) Hand Pieces
 - 3) Fluidics
- B) Incision Considerations
 - 1) Size
 - 2) Shape
 - 3) Location
- C) Capsulorrhesis
 - 1) Forceps
 - 2) Cystotome
 - 3) Femtosecond Laser
- D) Hydrodissection

- E) Hydrodileneation
- F) Spin Nucleus
- G) Nuclear Disassembly
 - 1) Divide & Conquer
 - 2) Vertical Chop
 - 3) Horizontal Chop
- H) Removal Of Cortex
 - 1) I/A Tip
 - 2) Simcoe Canula
- I) IOL Placement Techniques
- J) Sealing Incision
 - 1) Hydration Techniques
 - 2) Sealants
- K) Intra-op Complications
 - 1) Floppy Iris
 - 2) Zonulysis with CTR
 - 3) Posterior Capsule Tears
 - 4) Vitrectomy

III) SPECIAL NEEDS

- A) Astigmatism Management
 - 1) Decision Making/Planning
 - (a) Video Keratoscopy (Placedo Technology)
 - (b) ITrace (Ray Tracing)
 - (c) Pentacam (Tomography)
 - 2) Techniques
 - (a) Operate On Step Axis
 - (b) Femtosecond Laser
 - (c) Astigmatic Keratotomy
 - (d) TORIC IOL'S
- B) Femtosecond Laser
 - 1) Demonstration & Machine Set-Up
 - 2) Case Observation
 - (a) Incision Architecture
 - (b) Incision Placement
 - (c) Capsulorrhexis
 - (d) Nuclear Fragmentation

IV) POST-OP CARE CO-MANAGEMENT

- A) Drop Schedule
- B) Do's & Don'ts for Patients and Family
- C) Activity Schedule For Patients
- D) Role Of The Co-managing Doctor
 - 1) When to See Patient
 - 2) What To Look For In Post-Op Period
 - (a) 1-3 Day
 - (b) 3 days-3 weeks
 - (c) After 3 Weeks

3) Management Of Post-Op Issues

- (a) Corneal Abrasions
- (b) Incision Leaks
- (c) Low IOP
- (d) High IOP
- (e) Inflammation
- (f) Gamut Of Ametropic Results
- (g) Refractive Enhancement
 - (i) AK
 - (ii) LASIK
 - (iii) IOL Exchange
 - (iv) Piggyback IOL

V) PTERYGIUM SURGERY

- A) Indications
- B) Surgical Techniques
 - 1) Without Graft
 - 2) With Graft
 - (a) Conjunctival Graft
 - (b) Amniotic Tissue
 - (c) Combined
- C) Post-Op Management

VI) PHAKIC INTRAOCULAR LENS

- A) Indications
- B) Technique Of Surgery
- C) Astigmatism Management
- D) Enhancements
 - 1) LASIK
 - 2) PRK
 - 3) AK
- E) Post-Operative Co-Management Care Protocol

VII) CORNEAL TRANSPLANT

- A) Indications
- B) Surgical Techniques
 - 1) PKP
 - 2) DSAEK Vs. DMEK
 - 3) DALK

VIII) SURFACE NEOPLASMS

- A) Differential Diagnosis
- B) Surgical Technique
- C) Post-Op Follow-Up

IX) LUNCH! (NO CE CREDIT)

PRESENTATION MATERIALS

PLEASE NOTE THAT THERE ARE NO PRESENTATION MATERIALS IN THE FORM OF SLIDES, HANDOUTS OR OTHER MATERIALS BECAUSE THIS IS A ONE-ON ONE SESSION IN THE OPERATING ROOM.

ALL KNOWLEDGE TRANSFER WILL OCCUR VERBALLY AND BY OBSERVATION BY THE OPTOMETRIC PHYSICIAN VIA THE SURGICAL MICROSCOPE AND THE IN-ROOM VIDEO MONITOR. DRAWINGS WILL BE DONE TO HIGHLIGHT THE DISCUSSION BETWEEN CASES ON A WHITE BOARD, HOWEVER, NOTHING WRITTEN WILL BE HANDED OUT OR PRESENTED TO THE OPTOMETRIST, AND NO SLIDES WILL BE SHOWN.

Mark Mandel MD

MARK R. MANDEL, M.D.
CONSULTANT
DISEASES AND SURGERY OF THE CORNEA AND EXTERNAL EYE

CURRICULUM VITAE

EDUCATION

- 1997 University of Phoenix, Degree: M.B.A.
1979 UCLA School of Medicine, Degree: M.D.
1973-1975 Oxford University, Oxford, England, Degree: B.A. (Honours Degree); M.A. (Oxon)
1971-1973 University of California, Berkeley
1971 Beverly Hills High School

POST GRADUATE EDUCATION

- 1984-1985 Fellow: Cornea and External Disease, University of Iowa, Iowa City, Iowa (with Jay H. Krachmer, M.D.)
1980-1983 Residency: Ophthalmology, Pacific Medical Center, San Francisco, California
1979-1980 Internship: Internal Medicine, UCLA - San Fernando Valley Veterans Administration Program

SCHOLARSHIPS and GRANTS

- 1984-1985 Heed Ophthalmic Fellowship Foundation Grant
1981-1982 Pacific Vision Foundation Grant, Immunofluorescent Corneal Studies
1974 The Oxford University Scholarship, Presented to five students per year for outstanding academic achievement
1973 California State finalist, Rhodes Scholarship competition

PROFESSIONAL CERTIFICATION

- 1984 Diplomate of the American Board of Ophthalmology
1984 Iowa State Medical License
1980 Diplomate of the National Board of Medical Examiners
1980 California State Medical License

PROFESSIONAL ORGANIZATIONS

East Bay Ophthalmological Society: President, 1989-1992

1237 B STREET * HAYWARD, CALIFORNIA 95441-2977 * TELEPHONE 510-888-3937 * FAX 510-888-6304
DIPLOMATE OF THE AMERICAN BOARD OF OPHTHALMOLOGY

03/10

California Medical Association: **Chairman, Ophthalmology Section, 1995-1996**

California Medical Association: **Health Tips Section Editor, 1993-1994**

California Medical Association: **Ophthalmology Section Secretary, 1994-1995**

Alameda-Contra Costa Medical Association

American Academy of Ophthalmology: Fellow 1984 to present

American Society of Cataract and Refractive Surgery

Association for Research in Vision and Ophthalmology

Castroviejo Corneal Society

Contact Lens Association of Ophthalmologists

Phi Delta Epsilon Medical Fraternity

AREAS OF RESEARCH INTEREST

Corneal and external diseases of the eye

Peribulbar anesthesia of the eye

LASIK vs. PRK for low and high myopia, hyperopia, and astigmatism

CURRENT PROJECTS

1. Investigation of the cause of high astigmatism post-corneal transplant surgery.
2. Investigation of methods to reduce and repair high astigmatism following penetrating keratoplasty.
3. The surgical management of pellucid marginal degeneration and other atypical corneal thinning disorders using wedge resection vs. large penetrating graft.
4. Examination of the use of a hand-held wire loop keratometer (designed by Dr. Mandel) for intra-operative astigmatism control for penetrating and lamellar keratoplasty.
5. Investigation of the mechanism of action, safety, and efficacy of the peribulbar block for ophthalmic surgery.

TEACHING CLINICAL and PROFESSIONAL ACTIVITIES

Postgraduate

Continuing medical education programs on ophthalmology for physicians and nurses.

Consultant, Cornea and External Disease service at California Pacific Medical Center, San Francisco

Chief of Ophthalmology, Eden Hospital, Castro Valley, California, 1986 to 1989

Assistant Clinical Professor, University of California Berkeley

Clinical Instructor, University of California San Francisco

BIBLIOGRAPHY

Papers Published

1. Mandel MR, Fujikawa LS, Cintron C, Zealer M, Vastine DW, Foster CS, Colvin RB: Fibronectin, Laminin, Type IV Collagen and Bullous Pemphigoid Antigen in Full Thickness Rabbit Corneal Wounds. *Investigative Ophthalmology & Visual Science*, Volume 22, No. 3, March 1982 (supp.), Page 131
2. Fujikawa LS, Mandel MR, Vastine DW, Foster CS: Fibronectin, Laminin, Type IV Collagen and Bullous Pemphigoid Antigen in Rabbit Corneal Epithelial Wounds in Culture. *Investigative Ophthalmology & Visual Science*, Volume 24, No. 3, March 1983 (supp.), Page 45
3. Newman NM, Mandel MR, Fujikawa LS: Clinical and Histologic Findings in Opportunistic Ocular Infection - Part of a New Syndrome of Acquired Immunodeficiency. *Archives of Ophthalmology*, Volume 101, No. 3, March 1983, Page 396
4. Mandel MR, Stewart WS: Orbital Osteoma - A Case Report and Review of the Literature. *Journal of Oculoplastic and Reconstructive Surgery*. Volume 1, No. 2, Page 129
5. Davis DB, Mandel MR: Economics of the Shift From Inpatient to Outpatient Eye Surgery. *Geriatric Ophthalmology*, Volume 1, No. 2, August/September 1985, Page 38
6. Davis DB, Mandel MR: Outpatient Ophthalmic Surgery: Economics and Reimbursement. *Medicenter Management*, Pages 28-30, October, 1985
7. Shapiro MB, Krachmer JH, Rodriguez M, Mandel MR: Anterior Clear Spaces in Keratoconus - A Clinical Pathologic Correlation. *Ophthalmology*. Volume 93, 1986, Pages 1316-1319
8. Davis DB, Mandel MR: Posterior Peribulbar Anesthesia: An Alternative to Retrobulbar Anesthesia - J Cataract Refract Surgery, Volume 12, Page 182-184, March, 1986
9. Mandel MR, Shapiro MB, Krachmer JH: Relaxing Incisions with Augmentation Sutures for the Correction of Post Keratoplasty Astigmatism. *American Journal of Ophthalmology*, Volume 103, Part II, Pages 441-447, March 15, 1987
10. Davis DB II, Mandel MR: Posterior Peribulbar Anesthesia: An Alternative to Retrobulbar Anesthesia. *Indian Journal of Ophthalmology*, 1989, April-June; 37 (2): 59-61
11. Davis DB II, Mandel MR: Retrobulbar vs. Peribulbar Injection (Letter): *Ophthalmic Surgery*, June, 1989; 20 (6): 448-51
12. Davis DB II, Mandel MR: Peribulbar Anesthesia (Letter; Comment): Comment on: J Cataract Refract Surgery, 1990, March; 16 (2): 243-5; J Cataract Refract Surgery, 1990, July; 16 (4): 527-8
13. Davis DB II, Mandel MR: Efficacy and Complication Rate of 16,224 Consecutive Peribulbar Blocks, A Prospective Multi-center Study. *J Cataract Refract Surgery*, 1994, May; 20 (3): 327-37
14. Mandel, MR: Ophthalmology-Keratorefractive Surgery (Epitomes). *West J Med* 1994; 161:592-593

CHAPTERS in TEXTBOOKS

1. Mandel MR, Shapiro MB, Krachmer JH, Kolder HE: Techniques of Penetrating Keratoplasty. In Phelps CD (eds): A Manual of Ophthalmic Surgical Procedures. Churchill Livingstone, New York, 1985, Pages 35-56
2. Mandel MR, Shapiro MB, Krachmer JH: Refractive Keratoplasty Procedures for High Post-Keratoplasty Astigmatism. In Bruner WE II, Stark WJ, Maumenee AE (ed): A Manual of Corneal Surgery. Churchill Livingstone, New York, 1985, Pages 109-118.
3. Mandel MR, Shapiro MB, Krachmer JH: Surgical Correction of Astigmatism. In Dabezies OH, Cavanagh DH, Farris RL, Kemp MA (eds): Contact Lenses The CLAO Guide to Basic Science and Clinical Practice. Grune and Stratton, New York, Volume 2, Chapter 51A, 1985
4. Shapiro MB, Mandel MR, Krachmer JH: Techniques of Conjunctival Flap. In Phelps CD and Kolder HE (eds): A Manual of Ophthalmic Surgical Procedures. Churchill Livingstone, New York, 1985, Pages 55-59
5. Shapiro MB, Mandel MR, Krachmer JH: Technique of Pterygium Removal. In Phelps CD and Kolder HE (eds): A Manual of Ophthalmic Surgical Procedures. Churchill Livingstone, New York, 1985, Pages 51-54
6. Shapiro MB, Mandel MR, Krachmer JH: Pathogenesis, Diagnosis, and Treatment of Corneal Transplant Rejection. In Brightbill FS (ed): Corneal Surgery, Mosby, 1985, Pages 130-137
7. Davis DB II, Mandel MR: Peribulbar Anesthesia: A Review of Technique and Complications. In: Stamper RL (ed) Ophthalmology Clinics of North America: Regional Anesthesia for Intraocular Surgery. Philadelphia, W.B. Saunders, 1990, Pages 101-110
8. Davis DB II, Mandel MR: Ophthalmic Anesthesia: Local vs. General, Retrobulbar vs. Peribulbar. In Weinstock FJ (ed): Management and Care of the Cataract Patient. Boston, Blackwell Scientific Publications, 1992, Pages 150-159
9. Davis DB II, Mandel MR: Injection Anesthesia. In Gills JP (ed): Ophthalmic Anesthesia, New Jersey, Slack, 1993, Pages 122-124
10. Davis DB II, Mandel MR: Anesthesia for Cataract Extraction. In: Dodick JM, Donnefeld ED (ed): International Ophthalmology Clinics, Cataract Surgery. Boston; Little, Brown, & Co., Spring 1994, Pages 13-30
11. Mandel MR: Instrumentation for Corneal Transplant Surgery. In: Krachmer, Mannis, Holland (eds): CORNEA. St. Louis, MO, Mosby, 1997, Pages 1571-1579
12. Davis DB II, Mandel MR: Anterior Peribulbar. In: Stamper RL (ed): Ophthalmology Clinics of North America: Anesthesia. Philadelphia, W.B. Saunders, 1998, Pages 123-123

TEXTBOOK - EDITOR

1. Davis DB II, Mandel MR (Guest Editors): Anesthesia. In: Stamper RL (ed): Ophthalmology Clinics of North America. Philadelphia, W.B. Saunders, 1998

PAPERS DELIVERED at MEETINGS (Partial List)

1. Association for Research in Vision and Ophthalmology (Annual Meeting):, Laminin, Type IV Collagen, and Bullous Pemphigoid Antigen in Full Thickness Rabbit Corneal Wounds. May 1982
2. Aspen Cornea Society: The Ocular Manifestation of AIDS. March 1983
3. Association for Research in Vision and Ophthalmology (Annual Meeting): Fibronectin, Laminin, Type-IV Collagen and Bullous Pemphigoid Antigen in Rabbit Corneal Epithelial Wounds in Culture. May 1983
4. University of California, San Francisco, Department of Ophthalmology Update Course: The Ocular Manifestation of AIDS. June 1983
5. Pacific Medical Center, San Francisco, California: The YAG Laser in Clinical Ophthalmology. Course Chairman. February and June 1984, November 9, 1985
6. Alta Ophthalmologic Society, Sacramento, California: How to Set Up An Outpatient Surgical Facility. May 1984
7. 7th Sight Vesper Society Annual Meeting, Oakland, California: The Pre-Operative Evaluation of the Cornea Prior to Cataract Extraction. December 1984
8. Iowa Eye Society Annual Meeting: The Future of Keratorefractive Surgery. June 6, 1985
9. Asian Optometric Society: Advanced Slit Lamp Techniques and Management of Difficult Office Problems in Corneal Disease. August 1985
10. 14th Corneal Research Conference, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts: Relaxing Incisions with Augmentation Sutures for the Correction of Post Keratoplasty Astigmatism: A Prospective Study. November 1-2, 1985
11. Ophthalmic Outpatient Surgery Society Meeting, San Diego, California: Endophthalmitis in Ambulatory Surgery Centers - A National Survey. 1986
12. American Academy of Ophthalmology: Posterior Peribulbar Anesthesia - Course 345. 1986
13. Eden Hospital Continuing Education for Registered Nurses (Yearly Seminar): Helpful Hints for Smooth Turn-around in Outpatient Surgery. March 1986
14. Royal Hawaiian Eye Meeting: Advanced Slit Lamp Techniques for Corneal Evaluation. January 18-25, 1986
15. Royal Hawaiian Eye Meeting: Staffing An Outpatient Surgery Center. January 18-25, 1986
16. Eden Hospital Continuing Education for Registered Nurses (Yearly Seminar): Update on Operating Room Techniques for Corneal Surgery (full day seminar). December 1986
17. A.M.O., Irvine, California: National Course in Epikeratoplasty (KPE) - Course Instructor. February and August 1986, August 1987
18. St. Rose Hospital Medical Staff Lecture - General Medical Staff: The Ophthalmic Manifestations of Medical Disorders. March 1986

19. Pacific Presbyterian Hospital, San Francisco, California-Ophthalmology Review and Update: "Outpatient Surgery - Medical Center or Shopping Center?" April 24, 1986
20. Pacific Medical Center, Department of Ophthalmology, Alumni Meeting: "The Gamut of Keratorefractive Surgery". May 31, 1986
21. The Peninsula Eye Society, Burlingame, California: Epikeratophakia and an Update on Other Keratorefractive Procedures. 1987
22. Altamont Society, Bodega Bay, California: Two-day Lecture Series on Corneal Transplant Surgery, Indications, Technique and Complications. 1987
23. American Academy of Ophthalmology, Dallas, Texas: Posterior Peribulbar Anesthesia - Course 702. 1987
24. St. Rose Hospital Emergency Room/Trauma Center: Lecture on Detection and Initial Treatment of Ocular Trauma. 1987
25. Royal Hawaiian Eye Society Meeting: Bacterial Corneal Ulcers - Diagnosis and Management. February 1987
26. Royal Hawaiian Eye Society Meeting: Diagnosis and Treatment of Herpes Zoster Ophthalmicus. February 1987
27. Royal Hawaiian Eye Society Meeting: Infectious Corneal Ulcers - Management. February 1987
28. University of California, San Francisco Residency Program - Valley Medical Center, Fresno: Visiting Professor. October 1, 1987
29. Fresno Eye Society: Surgical Decision Making in Difficult Corneal Cases. October 2, 1987
30. Tampa Bay Ophthalmological Society, Tampa, Florida: Posterior Peribulbar Anesthesia - Techniques and Complications. October 10, 1987
31. Castroviejo Society Meeting, Dallas, Texas: Discussion of Paper on Correction of Astigmatism by Limberg, Kauffman, et al. November 7, 1987
32. Eden Hospital Continuing Education for Registered Nurses Yearly Seminar: Microsurgery - The Role of the Assistant Surgeon Hands-on Workshop (8 hour workshop coordinated and lead). Course Director. 1988
33. Krachmer Cornea Society, Co-Coordinator, San Francisco Meeting: The Surgical Management of Terrien's Marginal Degeneration Using Superior Wedge Resection and Lamellar Transplantation. 1988
34. Eden Hospital Trauma Center Conference, Castro Valley, California: The Detection and Early Treatment of Ophthalmic Emergencies. 1988
35. Ocular Symposium I, San Francisco: Update on New Advances in Cornea and External Disease. June 1988
36. Sarver Contact Lens Symposium, University of California, Berkeley: Anatomy, Physiology, and Disorders of the Ocular Surface. January 1989

37. Ocular Symposium II, Berkeley: Diagnosis and Management of the Anterior Uveitis. June 1989
38. Krachmer Cornea Society, Vancouver, Canada: The Surgical Management of a Series of Fungal Corneal Ulcers Techniques and Results. June 5, 1989
39. Altamont Society, Santa Cruz, California: Two-day lecture series on Ocular Surface Disorders - Techniques in Detection and Diagnosis. October 7, 1989
40. SOBVCO Annual Meeting, St. Trudent, Belgium: Posterior Peribulbar Anesthesia; Phacoemulsification Surgery; Corneal Transplant Surgery - An Update on Our Technique. October 20, 1989
41. Belgium Ophthalmological Society, St. Trudent, Belgium: Live performance of corneal transplant surgery closed circuit television presentation. October 21, 1989
42. University of California - Berkeley School of Optometry: Corneal and External Disease - Course 136, Eight part lecture series. 1990, 1991, 1992, 1993, 1994
43. American Society of Ophthalmic Registered Nurses Regional Educational Program, San Francisco: Surgical Complications and Emergencies of the Anterior Segment. January 13, 1990
44. Barkan Ophthalmologic Society, San Francisco: Capsulorrhesis - Tips and Techniques and the Avoidance of Pitfalls. March 1990
45. Optometry Alumni Association, University of California at Berkeley, First Annual Yosemite Meeting: Update on the Diagnosis of Cornea and External Disease. April 1990
46. Krachmer Cornea Society, Coordinator, Pebble Beach: Technique of Capsulorrhesis During the Combined Corneal Transplant/Cataract Operation. September 5-7, 1990
47. Barkan Ophthalmologic Society, San Francisco: Sutureless Phacoemulsification Surgery - Techniques and Avoidance of Pitfalls. April 13, 1991
48. Federation of Ambulatory Surgery Association (FASA), Las Vegas, Nevada: The Performance of Corneal Transplant Surgery on an Outpatient Basis - Clinical Experience with 400 Consecutive Cases. May 17, 1991
49. University of California - Berkeley, Student and Alumni Lecture: The Gamut of Keratorefractive Surgery Today and Tomorrow. February 3, 1992; December 1, 1992
50. Optometry Alumni Association, University of California Berkeley, Second Annual Yosemite Meeting: Anterior Segment Disease and Office Emergencies. February 14, 1992
51. American Society of Ophthalmic Registered Nurses, Regional Educational Program, San Francisco: Ophthalmic Injections: Location, Technique, Indications and Complications. February 28, 1992
52. Barkan Ophthalmologic Association, San Francisco: Posterior Peribulbar Anesthesia Attempts to Design the "Perfect" Block. March 7, 1992
53. Salinas Valley Memorial Hospital Update for Operating Room Nurses: Techniques and Gamut of Corneal Surgery. March 28, 1992

54. Krachmer Cornea Society, Charleston, South Carolina: The Surgical Management of Penetrating Keratoplasty Following Radial Keratotomy - Tips, Techniques and Video Demonstration. May 31, 1992
55. Ocular Symposium V, San Francisco: Pearls on Ocular Diagnosis - Update on Cornea and External Disease. June 6, 1992
56. American Academy of Ophthalmology, Summer Academy, San Francisco: Phacoemulsification Update Course. July 30, 1992.
57. Krachmer Cornea Society, Course Director. Santa Fe, New Mexico. August 5-7, 1993
58. Association of Operating Room Nurses. Oakland, CA: Radial Keratotomy and Refractive Surgery - Unraveling the Mysteries and Separating Fact from Fiction. November 3, 1993
59. Morton D. Sarver Lecture Series in Contact Lenses, School of Optometry, University of California, Berkeley: Refractive Surgery in the 90's. January 29-30, 1994
60. Ocular Therapy Course, University of California, Berkeley: Corneal Dystrophies and Degenerations. January 21, 1994
61. Ophthalmologist-Gatekeeper Interactions: Managed Eye Care, California Medical Association, Western Scientific Assembly, Anaheim, CA: Red Eye: Recognizing the Dangers. March 20, 1994.
62. University of California Berkeley, School of Optometry, Ocular Therapeutics Course: Corneal Dystrophy & Update on Keratorefractive Surgery. May 3, 1995
63. Modesto Optometric Society: The Reality of Refractive Surgery. June 2, 1995
64. Ocular Pearls Symposium, San Francisco, CA: RK vs. PRK - Separate Myth from Reality. June 4, 1995
65. QEA Regional Continuing Education: Update on PRK. June 8, 1995
66. Asian Optometric Association: RK vs. PRK & ALK - The Spectrum of Refractive Surgery. June 14, 1995
67. EYEXAM 2000 of California: Update on Small Incision Phacoemulsification and Refractive Surgery - Where are We and Where We are Going. Los Angeles, October 22, 1995
68. EYEXAM 2000 of California: Update on Small Incision Phacoemulsification and Refractive Surgery - Where are We and Where We are Going. San Francisco, November 5, 1995
69. University of California, School of Optometry: Excimer Laser Surgery. November 13, 1995
70. Asian Optometric Society: PRK vs. LASIK. January 10, 1996
71. University of California, School of Optometry, Therapeutics Course: Corneal Dystrophy - PKP. January 11, 1996
72. Ocular Symposium: Update of Refractive Surgery; Chairman. San Francisco, CA, June 1-2, 1996

73. Morton D. Sarver Lecture Series in Cornea and Contact Lens: Diagnosis and Treatment of Corneal Infection; Refractive Surgery - An M.D.'s Perspective. January 25-26, 1997
74. University of California Berkeley, School of Optometry, Course in Ocular Therapy: Immune Keratopathy, Herpes Simplex, Herpes Zoster, and Bacterial Keratitis. (Multiple courses per year) 1997, 1998, 1999
75. Barkan Society: PRK vs. LASIK. St. Helena, California, April 18, 1997
76. University of California Berkeley, School of Optometry, Course in Ocular Therapeutics: Herpes Simplex, Herpes Zoster, and Bacterial Keratitis. May 6, 1997
77. Ocular Symposium, San Francisco, Chairman: Refractive Surgery, Talk: Update in Refractive Surgery. June 8, 1997
78. University of California San Francisco, Proctor Foundation: Lamellar Keratoplasty - Surgical Techniques. June 18, 1997
79. University of California Berkeley, School of Optometry, Ninth Annual Berkeley Practicum: LASIK Refractive Surgery - A Current Evaluation. December 6, 1997
80. Ocular Symposium, San Francisco, Chairman: Refractive Surgery, Talk: Update in Refractive Surgery. June, 1998
81. University of California San Francisco, Proctor Foundation: Management of Complications in Laser Surgery. December, 1998-1999-2000-2001
82. Alameda Contra Costa Optometric Society: Management of Bacterial Keratitis, Herpes Simplex, and Herpes Zoster for the Practicing Optometrist. April 20, 1999
83. Ocular Symposium, San Francisco, Chairman: Refractive Surgery, Talk: Update in Refractive Surgery. June, 1999
84. California Association of Ophthalmology Annual Meeting, San Francisco. Cataract and Refractive Symposium: Hyperopic LASIK, Tips & Techniques. September 25, 1999
85. University of California Berkeley, School of Optometry: Ocular Therapeutics - Cataract Surgery; Refractive Surgery (multiple courses). 2000-2001
86. Ocular Symposium, San Francisco, Chairman: Refractive Surgery, Talk: Update in Refractive Surgery. June, 2000
87. Alameda Contra Costa Optometric Society: Management of Challenging Cases in Refractive Surgery. Fall, 2000
88. California Optometric Association, Monterey: Corneal Ulcers - Diagnosis and Management. Fall, 2000
89. Santa Clara Optometric Society: Management of Common Corneal and External Eye Conditions. February 20, 2001
90. Monterey Optometric Society: Update in Refractive Surgery. March 20, 2001

91. Ocular Symposium, San Francisco, Chairman: Refractive Surgery, Talk: Update in Refractive Surgery. June, 2001
92. Peninsula Optometric Society: Systemic Medications & Pain Management for Ocular Disorders. January 22, 2002
93. Santa Clara Optometric Society: LASEK and Phakic Intraocular Lenses. February 21, 2002
94. American Academy of Optometry: The Pre-Operative Prevention and Post-Operative Management of Complications in Refractive Surgery. December 12, 2002
95. American Academy of Optometry: Pain Management for the Practicing Optometrist. December 15, 2002
96. University of California, Berkeley - Meredith Morgan Symposium: Pain Management in Ocular Diseases. May 18, 2003.
97. Ocular Symposium, San Francisco: Pain Management in Ocular Diseases. June 8, 2003.
98. Santa Clara Optometric Society: Update on Refractive Surgery. March 18, 2004.
99. Ocular Symposium, San Francisco: Update on Refractive Surgery. June 6, 2004.
100. Santa Clara Optometric Society: Update on Refractive Surgery. April 21, 2005.
101. Alameda/Contra Costa Counties Optometric Society: The High Myope and Hyperope: How to Guide Patients Through the Maze of Treatment Options. October 13, 2005.
102. Lions Club: Update on Refractive Surgery. May 18, 2005.
103. Ocular Symposium, San Francisco: Update on Refractive Surgery. June 5, 2005.
104. Ocular Symposium, San Francisco: Update on Refractive Surgery: The High Myope and Hyperope. June 4, 2006.
105. Asian Optometric Society: Update on Refractive Surgery: The High Myope and Hyperope. September 13, 2006.
106. Berkeley Practicum, UC Berkeley School of Optometry: The High Myope and Hyperope: Guiding Patients Through the Maze of Treatment Options. January 8, 2007.
107. C.O.L.A.: Update on Refractive Surgery, The High Myope and The High Hyperope. March 1, 2007
108. Santa Clara County Optometric Society: Bacterial Keratitis. April 19, 2007.
109. Ocular Symposium, San Francisco: Recognizing and Treating Ocular Inflammation and Infection. June 3, 2007.
110. C.O.L.A.: Update on Refractive Surgery, The High Myope. September 27, 2007.
111. C.O.L.A.: Keratitis Sicca in Refractive Surgery. January, 24, 2008.

112. UC Berkeley, School of Optometry: Point-Counterpoint: Comanagement is Good for the Patient. May 21, 2008.
113. Ocular Symposium, San Francisco: Options for the High Myope and High Hyperope. June 8, 2008.
114. C.O.L.A.: LASIK Pre-Operative Work-Up, Post-Operative Care, and Complications. June 24, 2008.
115. Primetime, Hawaii: A Step-Wise Approach to The Management of the Post-RK Eye. December 6, 2008.
116. Primetime, Hawaii: Cataract Surgery – Past, Present and Future. December 6, 2008.
117. Primetime, Hawaii: Refractive Options for the Myope and Hyperope. December 6, 2008.
118. Ocular Symposium: Update on Refractive Surgery: What's New in 2009. June 7, 2009.
119. Monterey Symposium: Cataract Surgery in the Refractive Age. November 22, 2009.
120. Monterey Symposium: Refractive Surgery Decision Making – How to Help the Patient Make the Right Choice. November 22, 2009.

BOOK REPORTS

1. Corneal Sensitivity by J. Draeger, Ophthalmologica, Basel, American Journal of Ophthalmology. 1985
2. AIDS And Other Sexually Transmitted Diseases Of The Eye by Michael Insler, American Journal of Ophthalmology, Vol. 103, Pages 604-605. April, 1987

POSTERS

1. Anterior Clear Spaces in Keratoconus: A Clinicopathologic Correlation. American Academy of Ophthalmology Annual Meeting, San Francisco. October, 1985

VIDEO PRESENTATIONS

1. Feder R, Mandel MR, Krachmer JH: Techniques and Complications of Penetrating Keratoplasty. American Academy of Ophthalmology, (1 Hour). October, 1985.
2. Davis DB, Mandel MR: Posterior Peribulbar Anesthesia Technique. (30 minutes). March, 1986

INSTRUMENT DESIGN

1. Hand-held wire-loop surgical Keratometer. Katena Instruments (#K3-7892), New Jersey.
2. Advisory Panel Becton-Dickinson - Beaver microsurgical instruments.

TELEVISION and RADIO GUEST APPEARANCES, NEWSPAPER ARTICLES

1. Dr. Dean Edell "Housecalls", San Francisco Channel 7 (ABC): Epikeratophakia and Keratorefractive Surgery. 1987
2. "Health Talk Modesto": What's New In Corneal Transplant Surgery. June, 1989

3. Helen Ketchum's United Artists Cable: Eye Care For the Elderly. September, 1991 et seq.
4. "Health Talk Modesto": Keratorefractive Surgery - Separate Fact from Myth. May, 1994
5. "Transitions" Viacom Cable: Update of Clinical Ophthalmology. June, 1994
6. San Ramon Valley Times: Lamellar Keratoplasty. June 5, 1995
7. San Ramon Valley Times: Radial Keratotomy. Front page, June 5, 1995
8. KGO Radio: Excimer Laser Surgery. October 26, 1995
9. KRON Channel 4 TV News Interview: Excimer Laser PRK. November 6, 1995
10. KNBR Radio Interview: PRK. November, 1995
11. San Francisco Chronicle, Business Section. Excimer Laser PRK
12. Modesto Bee: Excimer Laser PRK. January 10, 1996
13. Health Talk with Nancy Sneiderman, M.D. - Nationally Syndicated Radio CBS: Excimer Laser PRK. January 12, 19, 20, 1996
14. KQED Radio - Family Talk: Laser Refractive Surgery. December, 1996
15. KGO Radio, Ron Owens: Refractive Surgery & General Eye Care. January 1, 2007
16. Dr. Dean Edell "Housecalls", San Francisco Channel 7 (ABC): Epi-LASIK. January 30, 2007
17. KNX-LA: Refractive Surgery. February 6, 2007